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1 Accounts-accountId-os-security-group-rules-ruleId:DELETE

This operation will delete a firewall group rule.

2 DELETE /accounts/{accountId}/os-security-group-rules/{ruleId}

This operation will delete a firewall group rule.

2.1 Parameters

accountId - *string*

The selected account Id.

ruleId - *string*

The unique firewall group rule identifier.

2.2 Response Codes

Success

HTTP/1.1 204 No Content

Failure

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found - The resource does not exist.

2.3 Examples

Successfully delete the specified firewall group rule

DELETE https://api.hostway.com/accounts/{accountId}/os-security-group-rules/{firewall_group_rule_id}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 204 No Content

Failure while trying to delete a non-existent firewall group rule

DELETE https://api.hostway.com/accounts/{accountId}/os-security-group-rules/{fake_firewall_group_rule_id}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Failure while trying to make unauthorized access

DELETE https://api.hostway.com/accounts/{accountId}/os-security-group-rules/{firewall_group_rule_id}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

DELETE https://api.hostway.com/accounts/fakeId/os-security-group-rules/{firewall_group_rule_id}

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

2.4 Alternative URI /accounts/os-security-group-rules/{ruleId}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
DELETE /accounts/os-security-group-rules/{ruleId}
```

3 Accounts-accountId-os-security-group-rules:POST

This operation will create a new firewall group rule.

4 POST /accounts/{accountId}/os-security-group-rules

This operation will create a new firewall group rule.

4.1 Request

4.1.1 Parameters

accountId - *string*
The selected account Id.

4.1.2 JSON

```
{
  "securityGroupRule" : {
    "fromPort": {start_port},
    "toPort": {end_port},
    "protocol": "{ip_protocol}",
    "cidr": "127.0.0.1/24",
    "parentGroupId": "{parent_group_id}",
    "action": "{action}",
    "priority": {priority}
  }
}
```

4.1.2.1 securityGroupRule

fromPort - *int*
Start port number.

toPort - *int*
End port number.

protocol - *string*
IP protocol used. Can be TCP, UDP, AH, ESP, GRE, AH+ESP, or ALL
AH, ESP, GRE, AH+ESP, ALL protocols don't support port - both should be 0

cidr - *string*
CIDR notation IP address.

parentGroupId - *string*
Parent group identifier for this rule.

action = *string*
rule target action. One of ACCEPT, REJECT or DROP

priority = *integer*
rule priority, starting from 0 lowest priority

4.2 Response

4.2.1 JSON

```
{
  "securityGroupRule" : {
    "fromPort": {start_port},
    "protocol": "{ip_protocol}",
    "links": [
      {
        "href": "https://api.hostway.com/accounts/{accountId}/os-security-group-rules/{firewall_group_rule_id}/",
        "rel": "self"
      }
    ],
    "toPort": {end_port},
    "parentGroupId": "{parent_firewall_group_name}",
    "cidr": "127.0.0.1/24",
    "id": {firewall_group_rule_id}
  }
}
```

4.2.1.1 securityGroupRule

fromPort - *int*
Start port number.

protocol - *string*
IP protocol used.

links - *list*
[Hypermedia](#) for this resource.

toPort - *int*
End port number.

parentGroupId - *string*
Parent group identifier for this rule.

cidr - *string*
IP range in CIDR notation.

id - *string*

Firewall group rule unique identifier.

4.3 Response Codes

Success

HTTP/1.1 201 Created

Failure

HTTP/1.1 400 Bad Request

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found - The resource does not exist.

4.4 Examples

Successfully create a new firewall group rule

POST <https://api.hostway.com/accounts/{accountId}/os-security-group-rules>

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "security_group_rule" : {
    "from_port": 80,
    "to_port": 80,
    "ip_protocol": "tcp",
    "cidr": "127.0.0.1/24",
    "parent_group_id": "group2012May11_NpCpS3995",
    "action": "ACCEPT",
    "priority": 1
  }
}
```

Response Code:

HTTP/1.1 201 Created

Response Body:

```
{
  "securityGroupRule" : {
    "fromPort": 80,
    "protocol": "tcp",
    "links": [
      {
        "href": "https://api.hostway.com/accounts/{accountId}/os-security-group-rules/214/",
        "rel": "self"
      }
    ],
    "toPort": 80,
    "parentGroupId": "group2012May11_NpCpS3995",
    "cidr": "127.0.0.1/24",
    "id": 214
  }
}
```

Successfully create a new firewall group rule with an IP without a netmask

POST <https://api.hostway.com/accounts/{accountId}/os-security-group-rules>

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "securityGroupRule" : {
    "fromPort": 80,
    "toPort": 80,
    "protocol": "TCP",
    "cidr": "127.0.0.1",
    "parentGroupId": "group2012May11_NpCpS3995"
  }
}
```

Response Code:

HTTP/1.1 201 Created

Response Body:

```
{
  "securityGroupRule" : {
    "fromPort": 80,
    "protocol": "tcp",
    "links": [
      {
        "href": "https://api.hostway.com/accounts/{accountId}/os-security-group-rules/215/",

```

```

        "rel": "self"
    }
},
"toPort": 80,
"parentGroupId": "group2012May11_NpCpS3995",
"cidr": "127.0.0.1/32",
"id": 215
}
}

```

Failure while trying to create a new firewall group rule with invalid data

POST https://api.hostway.com/accounts/{accountId}/os-security-group-rules

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Request Body:

```

{
  Empty
}

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```

{
  "badRequest" : {
    "message": "Invalid",
    "code": 400,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to create a new rule with invalid from and to ports

POST https://api.hostway.com/accounts/{accountId}/os-security-group-rules

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Request Body:

```

{
  "securityGroupRule" : {
    "fromPort": 81,
    "toPort": 80,
    "protocol": "tcp",
    "cidr": "127.0.0.1/24",
    "parentGroupId": "group2012May11_NpCpS3995"
  }
}

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```

{
  "badRequest" : {
    "message": "FirewallRuleError",
    "code": 400,
    "details": "Invalid ports",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to create a new rule rule with an invalid protocol

POST https://api.hostway.com/accounts/{accountId}/os-security-group-rules

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Request Body:

```

{
  "securityGroupRule" : {
    "fromPort": 80,
    "toPort": 80,
    "protocol": "proto",
    "cidr": "127.0.0.1/24",
    "parentGroupId": "group2012May11_NpCpS3995"
  }
}

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest" : {
    "message": "Invalid",
    "code": 400,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to create a new firewall rule with an invalid IP address

POST http(s)://{api_server}/accounts/{accountId}/os-security-group-rules

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "securityGroupRule" : {
    "fromPort": 80,
    "toPort": 80,
    "protocol": "tcp",
    "cidr": "ip_address",
    "parentGroupId": "group2012May11_NpCpS3995"
  }
}
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest" : {
    "message": "FirewallRuleError",
    "code": 400,
    "details": "Source IP address is invalid",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to make unauthorized access

POST https://api.hostway.com/accounts/{accountId}/os-security-groups

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

POST http(s)://{api_server}/accounts/fakeld/os-security-groups

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

4.5 Alternative URI /accounts/os-security-group-rules

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /accounts/os-security-group-rules

5 Accounts-accountId-os-security-groups-groupId:DELETE

This operation will delete the specified firewall group.

6 DELETE /accounts/{accountId}/os-security-groups/{groupId}

This operation will delete the specified firewall group.

6.1 Parameters

accountId - *string*
The selected account Id.

groupId - *string*
The unique identifier of the firewall group.

6.2 Response Codes

Success
HTTP/1.1 204 No Content

Failure
HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

6.3 Examples

Successfully delete the specified firewall group

DELETE https://api.hostway.com/accounts/{accountId}/os-security-groups/group2012May11_OK30Zs7Ju

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 204 No Content

Failure while trying to make unauthorized access

DELETE https://api.hostway.com/accounts/{accountId}/os-security-groups/group2012May11_OK30Zs7Ju

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to delete a non-existent firewall group

DELETE https://api.hostway.com/accounts/{accountId}/os-security-groups/{fake_firewall_group_id}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Failure while trying to pass invalid account number

DELETE https://api.hostway.com/accounts/fakeId/os-security-groups/group2012May11_OK30Zs7Ju

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

6.4 Alternative URI /accounts/os-security-groups/{groupId}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
DELETE /accounts/os-security-groups/{groupId}
```

7 Accounts-accountId-os-security-groups-groupId:GET

This operation will list the details for the specified firewall group.

8 GET /accounts/{accountId}/os-security-groups/{groupId}

This operation will list the details for the specified firewall group.

8.1 Parameters

accountId - *string*

The selected account Id.

groupId - *string*

The unique identifier of the firewall group.

8.2 Response

8.2.1 JSON

```
{
  "securityGroup" : {
    "displayName" : "{firewall_group_display_name}",
    "description" : "{firewall_group_description}",
    "links" : [
      {
        "href" : "https://api.hostway.com/accounts/{accountId}/os-security-groups/{groupId}/",
        "rel" : "self"
      }
    ],
    "rules" : [
      {
        "fromPort" : "{start_port}",
        "toPort" : "{end_port}",
        "protocol" : "{ip_protocol}",
        "cidr": "0.0.0.0/0",
        "id" : "145"
      },
      {
        "fromPort" : "{start_port}",
        "toPort" : "{end_port}",
        "protocol" : "{ip_protocol}",
        "cidr": "127.0.0.1/0",
        "id" : "169"
      }
    ],
    "servers" : ["{server_id}"],
    "accountNumber" : "{user_account_number}",
    "id" : "{firewall_group_id}"
  }
}
```

8.2.1.1 securityGroup

displayName - *string*

The display name of the firewall group.

description - *string*

Text describing the firewall group.

links - *list*

[Hypermedia](#) for this resource.

rules - *list*

List describing all defined security rules for the group.

servers - *list*

List of server ids this firewall group is assigned to.

accountNumber - *string*

Identifies an account that owns the firewall group.

id - *string*

The id of this firewall group. *(Unique identifier for this firewall group.)

8.3 Response Codes

Success

HTTP/1.1 200 OK

Failure

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

8.4 Examples

Successfully list details for specified firewall group

GET https://api.hostway.com/accounts/{accountId}/os-security-groups/group2012May11_OK30Zs7Ju

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "securityGroup": {
    "displayName": "Test Firewall Group 1",
    "description": "Test firewall group 1 description.",
    "links": [
      {
        "href": "https://api.hostway.com/accounts/{accountId}/os-security-groups/group2012May11_OK30Zs7Ju/",
        "rel": "self"
      }
    ],
    "rules": [
      {
        'toPort': 1111,
        'fromPort': 1111,
        'protocol': 'TCP',
        'id': 145,
        'cidr': '0.0.0.0/0'
      },
      {
        'toPort': 80,
        'fromPort': 80,
        'protocol': 'TCP',
        'id': 196,
        'cidr': '127.0.0.1/24'
      }
    ],
    "id": "group2012May11_OK30Zs7Ju",
    "accountNumber": "test_account_120761",
    "servers": ["test-server-0003"]
  }
}
```

Failure while trying to request details for a firewall group that does not exist

GET https://api.hostway.com/accounts/{accountId}/os-security-groups/{fake_firewall_group_id}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    {
      "message": "Resource not found",
      "code": 404,
      "details": "",
      "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
    }
  }
}
```

Failure while trying to make unauthorized access

GET https://api.hostway.com/accounts/{accountId}/os-security-groups/group2012May11_OK30Zs7Ju

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

GET https://api.hostway.com/accounts/fakeld/os-security-groups/group2012May11_OK30Zs7Ju

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    "message": "Resource not found",
  }
}
```

```
    "code": 404,  
    "details": "",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  }  
}
```

8.5 Alternative URI /accounts/os-security-groups/{groupId}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /accounts/os-security-groups/{groupId}
```

9 Accounts-accountId-os-security-groups-groupId:PUT

This operation will update displayName and/or description of the specified firewall group.

10 PUT /accounts/{accountId}/os-security-groups/{groupId}

10.1 Parameters

accountId - *string*
The selected account Id.

groupId - *string*
The unique identifier of the firewall group.

10.2 Request

10.2.1 JSON

```
{
  "securityGroup" : {
    "displayName" : "{firewall_group_display_name}",
    "description" : "{firewall_group_description}",
  }
}
```

10.3 Response

10.3.1 JSON

```
{
  "securityGroup" : {
    "displayName" : "{firewall_group_display_name}",
    "description" : "{firewall_group_description}",
    "links" : [
      {
        "href" : "https://api.hostway.com/accounts/{accountId}/os-security-groups/{groupId}/",
        "rel" : "self"
      }
    ],
    "rules" : [
      {
        "fromPort" : "{start_port}",
        "toPort" : "{end_port}",
        "protocol" : "{ip_protocol}",
        "cidr" : "0.0.0.0/0",
        "id" : "145"
      },
      {
        "fromPort" : "{start_port}",
        "toPort" : "{end_port}",
        "protocol" : "{ip_protocol}",
        "cidr" : "127.0.0.1/0",
        "id" : "169"
      }
    ],
    "servers" : [{"server_id"}],
    "accountNumber" : "{user_account_number}",
    "id" : "{firewall_group_id}"
  }
}
```

10.4 Response Codes

Success *HTTP/1.1 200 OK*

Failure *HTTP/1.1 401 Unauthorized* : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

10.5 Examples

Successfully edit details for specified firewall group

PUT https://api.hostway.com/accounts/{accountId}/os-security-groups/group2012May11_OK30Zs7Ju

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "securityGroup" : {
    "displayName": "New display name",
    "description": "New description",
  }
}
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
```

```

"securityGroup" : {
  "displayName": "New display name",
  "description": "New description.",
  "links": [
    {
      "href": "https://api.hostway.com/accounts/{accountId}/os-security-groups/group2012May11_OK30Zs7Ju/",
      "rel": "self"
    }
  ],
  "rules": [
    {
      'toPort': 1111,
      'fromPort': 1111,
      'protocol': 'TCP',
      'id': 145,
      'cidr': '0.0.0.0/0'
    },
    {
      'toPort': 80,
      'fromPort': 80,
      'protocol': 'tcp',
      'id': 196,
      'cidr': '127.0.0.1/24'
    }
  ],
  "id": "group2012May11_OK30Zs7Ju",
  "accountNumber": "test_account_120761",
  "servers": ["test-server-0003"]
}
}

```

Failure while trying to edit a firewall group that does not exist

PUT https://api.hostway.com/accounts/{accountId}/os-security-groups/{fake_firewall_group_id}

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```

{
  "itemNotFound":
  {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

11 Accounts-accountId-os-security-groups:GET

This operation lists existing firewall groups.

12 GET /accounts/{accountId}/os-security-groups

This operation lists existing firewall groups.

12.1 Request

12.1.1 Request Parameters

accountId - *string*
The selected account Id.

12.2 Response

12.2.1 JSON

```
{
  "securityGroups" : [
    {
      "displayName" : "{firewall_group_display_name}",
      "description" : "{firewall_group_description}",
      "links" : [
        {
          "href" : "https://api.hostway.com/accounts/{accountId}/os-security-groups/{firewall_group_id}/",
          "rel" : "self"
        }
      ],
      "rules" : [
        {
          "fromPort" : {start_port},
          "toPort" : {end_port},
          "protocol" : "{ip_protocol}",
          "cidr" : "0.0.0.0/0",
          "id" : "145"
        }
      ],
      "servers" : [{server_id}],
      "accountNumber" : "{user_account_number}",
      "Id" : "{firewall_group_id}"
    }
  ]
}
```

12.2.1.1 security_groups

displayName - *string*
The display name of the firewall group.

description - *string*
Text describing the firewall group.

links - *list*
[Hypermedia](#) for this resource.

rules - *list*
List describing all defined security rules for the group.

fault - *dictionary*
Might hold a fault information for the firewall group.

servers - *list*
List of server ids this firewall group is assigned to.

accountNumber - *string*
Identifies an account that owns the firewall group.

id - *string*
The id of this firewall group. *(Unique identifier for this firewall group.)

12.3 Response Codes

Success
HTTP/1.1 200 OK

Failure
HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

12.4 Examples

Successfully list firewall groups

GET https://api.hostway.com/accounts/{accountId}/os-security-groups

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "securityGroup" : [
    {
      "displayName": "Test Firewall Group 1",
      "description": "Test firewall group 1 description.",
      "links": [
        {
          "href": "https://api.hostway.com/accounts/{accountId}/os-security-groups/group2012May11_OK30Zs7Ju/",
          "rel": "self"
        }
      ],
      "rules": [
        {
          "toPort": 1111,
          "fromPort": 1111,
          "protocol": "TCP",
          "id": 145,
          "cidr": "0.0.0.0/0"
        },
        {
          "toPort": 80,
          "fromPort": 80,
          "protocol": "TCP",
          "id": 196,
          "cidr": "127.0.0.1/24"
        }
      ],
      "id": "group2012May11_OK30Zs7Ju",
      "accountNumber": "test_account_120761",
      "servers": ["test-server-0003"]
    },
    {
      "displayName": "Test Firewall Group",
      "description": "Test firewall group description.",
      "links": [
        {
          "href": "https://api.hostway.com/accounts/{accountId}/os-security-groups/group2012Apr30_9J5qDwOI0/",
          "rel": "self"
        }
      ],
      "rules": [
        {
          "toPort": 3389,
          "fromPort": 3389,
          "protocol": "tcp",
          "id": 116,
          "cidr": "0.0.0.0/0"
        },
        {
          "toPort": 8443,
          "fromPort": 8443,
          "protocol": "tcp",
          "id": 117,
          "cidr": "0.0.0.0/0"
        },
        {
          "toPort": 22,
          "fromPort": 22,
          "protocol": "tcp",
          "id": 118,
          "cidr": "0.0.0.0/0"
        }
      ],
      "id": "group2012Apr30_9J5qDwOI0",
      "accountNumber": "test_account_901265",
      "servers": ["test-server-0011", "test-server-0024"]
    }
  ]
}
```

Failure while trying to make unauthorized access

POST https://api.hostway.com/accounts/{accountId}/os-security-groups

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

POST https://api.hostway.com/accounts/fakeld/os-security-groups

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

12.5 Alternative URI /accounts/os-security-groups

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /accounts/os-security-groups

13 Accounts-accountId-os-security-groups:POST

A Security/Firewall Group defines firewall rules for your Server. You have the ability to configure your firewall connections and secure your network as required. You may have one or multiple servers behind a firewall group. Hostway provides a default firewall group, and typical firewall rules are already configured. You can create multiple firewall groups as needed.

14 POST /accounts/{accountId}/os-security-groups

This operation will create a new firewall group.

14.1 Request

14.1.1 Parameters

accountId - *string*
The selected account Id.

14.1.2 JSON

```
{
  "securityGroup": {
    "displayName": "{firewall_group_display_name}",
    "description": "{firewall_group_description}"
  }
}
```

14.1.2.1 securityGroup

displayName - *string*
Display name for this firewall group.

description - *string*
Descriptive information for this firewall group.

14.2 Response

14.2.1 JSON

```
{
  "securityGroup": {
    "displayName": "{firewall_group_display_name}",
    "description": "{firewall_group_description}",
    "links": [
      {
        "href": "https://api.hostway.com/accounts/{accountId}/os-security-groups/{firewall_group_id}/",
        "rel": "self"
      }
    ],
    "rules": [],
    "id": "{firewall_group_id}",
    "accountNumber": "{user_account_number}",
    "servers": []
  }
}
```

14.2.1.1 securityGroup

displayName - *string*
Display name for this firewall group.

description - *string*
Descriptive information for this firewall group.

links - *list*
[Hypermedia](#) for this resource.

rules - *list*
List of all defined security rules for the group.

id - *string*
The id of the firewall group. *(Unique identifier for this firewall group.)

accountNumber - *string*
The account number this firewall group resource belongs to.

servers - *list*
List of server IDs this security group is assigned to.

14.3 Response Codes

Success
HTTP/1.1 201 Created

Failure
HTTP/1.1 400 Bad Request
HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 409 Conflict - The resource already exists.

14.4 Examples

Successfully create a new firewall group

POST https://api.hostway.com/accounts/{accountId}/os-security-groups

Request Headers:


```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "securityGroup" : {
    "displayName" : "Test Firewall Group",
    "description" : "Test firewall group description."
  }
}
```

Response Code:

HTTP/1.1 201 Created

Response Body:

```
{
  "securityGroup" : {
    "displayName": "Test Firewall Group",
    "description": "Test firewall group description.",
    "links": [
      {
        "href": "https://api.hostway.com/accounts/{accountId}/os-security-groups/group2012May11_OK30Zs7Ju/",
        "rel": "self"
      }
    ],
    "rules": [],
    "id": "group2012May11_OK30Zs7Ju",
    "accountNumber": "test_account_120761",
    "servers": []
  }
}
```

Failure while trying to create a new firewall group with invalid data

POST https://api.hostway.com/accounts/{accountId}/os-security-groups

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  Empty
}
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest" : {
    "message": "Invalid",
    "code": 400,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to create a new firewall group with an already existing firewall group display name

POST https://api.hostway.com/accounts/{accountId}/os-security-groups

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "securityGroup" : {
    "displayName" : "Test Firewall Group",
    "description" : "Test firewall group description."
  }
}
```

Response Code:

HTTP/1.1 409 Conflict

Response Body:

```
{
  "computeFault" : {
    "message": "GroupNameError",
    "code": 400,
    "details": "Display name in use",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

```
}
```

Failure while trying to make unauthorized access

POST https://api.hostway.com/accounts/{accountId}/os-security-groups

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

POST https://api.hostway.com/accounts/fakeld/os-security-groups

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

14.5 Alternative URI /accounts/os-security-groups

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /accounts/os-security-groups

15 Allocate Flexible IP

A Flexible IP address is a static IP address that can be bound to any single Server. When you associate a flexible IP with a Server the IP is bound to that Server's network interface. You will use your flexible IP to connect to your Server. You can allocate IPs and release IPs from your account as needed.

16 POST /accounts/{accountId}/flexcloud/os-floating-ips

Allocates a new flexible IP.

16.1 Request

```
{
  "zone": "AUS001"
}
```

16.1.1 Parameters

accountId - *string*
The selected account Id.

16.2 Response

16.2.1 JSON

```
{
  "floating_ip" : {
    "instance_id" : "{instance_id}",
    "ip" : "{ip_address}",
    "fixed_ip" : null,
    "links" : [
      {
        "href" : "http://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}/",
        "rel" : "self"
      }
    ],
    "pool" : "default"
  }
}
```

16.2.1.1 floating_ip

instance_id - *string*
Unique instance identifier floating IP is assigned to.

ip - *string*
IP address allocated.

fixed_ip - *string*
Fixed IP address.

links - *list*
[Hypermedia](#) for this resource.

pool - *string*
Name of the pool IP address belongs to.

16.3 Response Codes

Success
HTTP/1.1 202 Accepted

Failure
HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied incorrect credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Resource not found : The resource was accessed with wrong account number

16.4 Examples

Successfully allocate a flexible IP

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 202 Accepted

Response Body:

```
{
  "floating_ip" : {
    "instance_id" : null,
    "ip" : "{ip_address}",
    "fixed_ip" : null,
    "links" : [
      {
        "href" : "http://{api_server}/account/{accountId}/flexcloud/os-floating-ips/{ip_address}/",
        "rel" : "self"
      }
    ],
    "pool" : "default"
  }
}
```

```
}
```

Unauthorized access

POST http://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

POST http://{api_server}/accounts/fake/flexcloud/os-floating-ips

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

16.5 Alternative URI /os-floating-ips

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /os-floating-ips

17 AssignSecurityGroupToServer

This operation will assign a securityGroup to the specified server

18 PUT /accounts/{accountId}/flexcloud/servers/{id}/os-security-group

18.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the server.

18.2 Request

18.2.1 JSON

```
{
  "securityGroup" : {
    "id": "{security_group_id}",
    "status": "{status}"
  }
}
```

securityGroup.id - *string*

The unique name of the securityGroup.

status - *string*

Status. Only enabled is supported currently

18.3 Response Codes

Success

HTTP/1.1 200 OK

Failure

HTTP/1.1 400 Bad Request

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied incorrect credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

18.4 Examples

Successfully assign a securityGroup to the specified server

PUT http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/os-security-group

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "securityGroup" : {
    "id": "group2012Nov02_jD6NX8BsK"
    "status": "enabled"
  }
}
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "securityGroup" : {
    "id": "2012May08_61EfdIZ3Y"
    "links": [{"href": "http://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/group2012Nov02_jD6NX8BsK/", "rel": "self"}]
  }
}
```

Failure while trying to assign a firewall group to server

PUT http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/os-security-group

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

```
{
  "securityGroup" : {
    "id": "not_exist",
    "status": "enabled"
  }
}
```

Response Code:

HTTP/1.1 400 Bad Request

19 AttachVolumeToServer

This operation will attach an already existing volume to the specified [Server](#).

20 POST /accounts/{accountId}/flexcloud/servers/{id}/os-volume_attachments

20.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the server.

20.2 Request

20.2.1 JSON

```
{
  "volumeAttachment" : {
    "volumeId" : "{volume_id}",
    "device": "{device_path}"
  }
}
```

volumeId- *string*

The unique identifier of the volume.

device- *string*

The device path specified.

20.3 Response Codes

Success

HTTP/1.1 200 OK

Failure

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied incorrect credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found

HTTP/1.1 409 Conflict

20.4 Examples

Successfully attach a volume to specified server

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/os-volume_attachments

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "volumeAttachment" : {
    "volumeId" : "hbs2012May08_61EfdIZ3Y",
    "device": "/dev/test"
  }
}
```

Response Code:

HTTP/1.1 200 OK

Failure while trying to attach a volume that is already attached to the server

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/os-volume_attachments

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "volumeAttachment" : {
    "volumeId" : "hbs2012May08_61EfdIZ3Y",
    "device": "/dev/test"
  }
}
```

Response Code:

HTTP/1.1 409 Conflict

Response Body:

```
{
  "conflict": {
    "message": "VolumeAlreadyAttached",
    "code": 409,
    "details": "hbs is already attached",
  }
}
```

```
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to attach a volume that does not exist

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/os-volume_attachments

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "volumeAttachment" : {
    "volumeId" : "fake_volume_id",
    "device": "/dev/test"
  }
}
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "notFound": {
    "message": "VolumeNotFound",
    "code": 404,
    "details": "hostway block store not found",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Unauthorized access

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/os-volume_attachments

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

POST http(s)://{api_server}/accounts/fake/flexcloud/servers/{id}/os-volume_attachments

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

20.5 Alternative URI /servers/{id}/os-volume_attachments

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /servers/{id}/os-volume_attachments

21 Create Firewall Group

A Security/Firewall Group defines firewall rules for your Server. You have the ability to configure your firewall connections and secure your network as required. You may have one or multiple servers behind a firewall group. Hostway provides a default firewall group, and typical firewall rules are already configured. You can create multiple firewall groups as needed.

22 POST /accounts/{accountId}/flexcloud/os-security-groups

This operation will create a new firewall group.

22.1 Request

22.1.1 Parameters

accountId - *string*
The selected account Id.

22.1.2 JSON

```
{
  "securityGroup": {
    "displayName": "{firewall_group_display_name}",
    "description": "{firewall_group_description}"
  }
}
```

22.1.2.1 securityGroup

displayName - *string*
Display name for this firewall group.

description - *string*
Descriptive information for this firewall group.

22.2 Response

22.2.1 JSON

```
{
  "securityGroup": {
    "displayName": "{firewall_group_display_name}",
    "description": "{firewall_group_description}",
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/{firewall_group_name}/",
        "rel": "self"
      }
    ],
    "rules": [],
    "id": "{firewall_group_id}",
    "accountNumber": "{user_account_number}",
    "servers": []
  }
}
```

22.2.1.1 securityGroup

displayName - *string*
Display name for this firewall group.

description - *string*
Descriptive information for this firewall group.

links - *list*
[Hypermedia](#) for this resource.

rules - *list*
List of all defined security rules for the group.

id - *string*
The id of the firewall group. *(Unique identifier for this firewall group.)

accountNumber - *string*
The account number this firewall group resource belongs to.

servers - *list*
List of server IDs this security group is assigned to.

22.3 Response Codes

Success
HTTP/1.1 201 Created

Failure
HTTP/1.1 400 Bad Request
HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 409 Conflict - The resource already exists.

22.4 Examples

Successfully create a new firewall group

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "securityGroup" : {
    "displayName" : "Test Firewall Group",
    "description" : "Test firewall group description."
  }
}
```

Response Code:

HTTP/1.1 201 Created

Response Body:

```
{
  "securityGroup" : {
    "displayName": "Test Firewall Group",
    "description": "Test firewall group description.",
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/group2012May11_OK30Zs7Ju/",
        "rel": "self"
      }
    ],
    "rules": [],
    "id": "group2012May11_OK30Zs7Ju",
    "accountNumber": "test_account_120761",
    "servers": []
  }
}
```

Failure while trying to create a new firewall group with invalid data

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  Empty
}
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest" : {
    "message": "Invalid",
    "code": 400,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to create a new firewall group with an already existing firewall group display name

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "securityGroup" : {
    "displayName" : "Test Firewall Group",
    "description" : "Test firewall group description."
  }
}
```

Response Code:

HTTP/1.1 409 Conflict

Response Body:

```
{
  "computeFault" : {
    "message": "GroupNameError",
    "code": 400,
    "details": "Display name in use",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

```
}
```

Failure while trying to make unauthorized access

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

POST http(s)://{api_server}/accounts/fake/flexcloud/os-security-groups

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

22.5 Alternative URI /os-security-groups

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /os-security-groups

23 Create Firewall Group Rule

This operation will create a new firewall group rule.

24 POST /accounts/{accountId}/flexcloud/os-security-group-rules

This operation will create a new firewall group rule.

24.1 Request

24.1.1 Parameters

accountId - *string*
The selected account Id.

24.1.2 JSON

```
{
  "securityGroupRule" : {
    "fromPort": {start_port},
    "toPort": {end_port},
    "protocol": "{ip_protocol}",
    "cidr": "127.0.0.1/24",
    "parentGroupId": "{parent_group_id}"
  }
}
```

24.1.2.1 securityGroupRule

fromPort - *int*
Start port number.

toPort - *int*
End port number.

protocol - *string*
IP protocol used. TCP or UDP

cidr - *string*
CIDR notation IP address.

parentGroupId - *string*
Parent group identifier for this rule.

24.2 Response

24.2.1 JSON

```
{
  "securityGroupRule" : {
    "fromPort": {start_port},
    "protocol": "{ip_protocol}",
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-security-group-rules/{firewall_group_rule_id}/",
        "rel": "self"
      }
    ],
    "toPort": {end_port},
    "parentGroupId": "{parent_firewall_group_name}",
    "cidr": "127.0.0.1/24"
  },
  "id": {firewall_group_rule_id}
}
```

24.2.1.1 securityGroupRule

fromPort - *int*
Start port number.

protocol - *string*
IP protocol used.

links - *list*
[Hypermedia](#) for this resource.

toPort - *int*
End port number.

parentGroupId - *string*
Parent group identifier for this rule.

cidr - *string*
IP range in CIDR notation.

id - *string*
Firewall group rule unique identifier.

24.3 Response Codes

Success
HTTP/1.1 201 Created

Failure

HTTP/1.1 400 Bad Request

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found - The resource does not exist.

24.4 Examples

Successfully create a new firewall group rule

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-group-rules

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "security_group_rule" : {
    "from_port": 80,
    "to_port": 80,
    "ip_protocol": "tcp",
    "cidr": "127.0.0.1/24",
    "parent_group_id": "group2012May11_NpCpS3995"
  }
}
```

Response Code:

HTTP/1.1 201 Created

Response Body:

```
{
  "securityGroupRule" : {
    "fromPort": 80,
    "protocol": "tcp",
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-security-group-rules/214/",
        "rel": "self"
      }
    ],
    "toPort": 80,
    "parentGroupId": "group2012May11_NpCpS3995",
    "cidr": "127.0.0.1/24",
    "id": 214
  }
}
```

Successfully create a new firewall group rule with an IP without a netmask

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-group-rules

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "securityGroupRule" : {
    "fromPort": 80,
    "toPort": 80,
    "protocol": "TCP",
    "cidr": "127.0.0.1",
    "parentGroupId": "group2012May11_NpCpS3995"
  }
}
```

Response Code:

HTTP/1.1 201 Created

Response Body:

```
{
  "securityGroupRule" : {
    "fromPort": 80,
    "protocol": "tcp",
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-security-group-rules/215/",
        "rel": "self"
      }
    ],
    "toPort": 80,
    "parentGroupId": "group2012May11_NpCpS3995",
    "cidr": "127.0.0.1/32",
    "id": 215
  }
}
```

Failure while trying to create a new firewall group rule with invalid data

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-group-rules

Request Headers:

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

Request Body:

```
{  
  Empty  
}
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{  
  "badRequest" : {  
    "message": "Invalid",  
    "code": 400,  
    "details": "",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  }  
}
```

Failure while trying to create a new rule with invalid from and to ports

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-group-rules

Request Headers:

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

Request Body:

```
{  
  "securityGroupRule" : {  
    "fromPort": 81,  
    "toPort": 80,  
    "protocol": "tcp",  
    "cidr": "127.0.0.1/24",  
    "parentGroupId": "group2012May11_NpCpS3995"  
  }  
}
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{  
  "badRequest" : {  
    "message": "FirewallRuleError",  
    "code": 400,  
    "details": "Invalid ports",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  }  
}
```

Failure while trying to create a new rule rule with an invalid protocol

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-group-rules

Request Headers:

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

Request Body:

```
{  
  "securityGroupRule" : {  
    "fromPort": 80,  
    "toPort": 80,  
    "protocol": "proto",  
    "cidr": "127.0.0.1/24",  
    "parentGroupId": "group2012May11_NpCpS3995"  
  }  
}
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{  
  "badRequest" : {  
    "message": "Invalid",  
    "code": 400,  
  }  
}
```

```

    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to create a new firewall rule with an invalid IP address

POST `http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-group-rules`

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Request Body:

```

{
  "securityGroupRule" : {
    "fromPort": 80,
    "toPort": 80,
    "protocol": "tcp",
    "cidr": "ip_address",
    "parentGroupId": "group2012May11_NpCpS3995"
  }
}

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```

{
  "badRequest" : {
    "message": "FirewallRuleError",
    "code": 400,
    "details": "Source IP address is invalid",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to make unauthorized access

POST `http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups`

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string

```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```

401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.

```

Failure while trying to pass invalid account number

POST `http(s)://{api_server}/accounts/fake/flexcloud/os-security-groups`

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```

{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

24.5 Alternative URI /os-security-group-rules

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST `/os-security-group-rules`

25 Create Volume

A Volume provides storage space that can be used with your Server. This storage space is independent from the storage space that is included with your Server. Once a volume is created, it can be easily attached to a Server. Once attached, it will appear as a mounted device. You can attach multiple volumes to a Server.

26 POST /accounts/{accountId}/flexcloud/volumes

This operation will create a new volume.

26.1 Request

26.1.1 Parameters

accountId - *string*
The selected account Id.

26.1.2 JSON

```
{
  "volume": {
    "display_name" : "{display_volume_name}",
    "display_description" : "{display_volume_description}",
    "size" : {size_quantity},
    "volume_type" : "{volume_type_id}",
    "metadata" : {
      "contents": "{contents_type}"
    },
    "availability_zone" : "{availability_zone_id}"
  }
}
```

26.1.2.1 volume

display_name - *string*
Display name for this volume.

display_description - *string*
Descriptive information for this volume.

size - *int*
Volume size.

volume_type - *string*
Identifier of volume type. *(Unused in the current API version - please pass empty value).

metadata - *string*
Additional metadata info.

availability_zone - *string*
Identifier of the availability zone into which this volume is created.

26.2 Response

26.2.1 JSON

```
{
  "volume": {
    "status": "{volume_status}"
    "id": "{volume_id}",
    "display_name" : "{display_volume_name}",
    "display_description" : "{display_volume_description}",
    "size" : {size_quantity},
    "volume_type" : "{volume_type_id}",
    "metadata" : {
      "contents": "{contents_type}"
    },
    "availability_zone" : "{availability_zone_id}"
    "snapshot_id": "",
    "attachments": [],
    "created_at": "2012-02-14T20:53:07Z"
  }
}
```

26.2.1.1 volume

status - *string*
Current status of the volume instance. Possible values: **Pending**, **Open** and **ClosePending**.

id - *string*
Identifier of the volume instance.

display_name - *string*
Display name for this volume.

display_description - *string*
Descriptive information for this volume.

size - *int*
Volume size.

volume_type - *string*
Identifier of the volume type used. *(Unused in the current API version - please pass empty value).

metadata - *string*
Additional metadata info.

availability_zone - *string*

Identifier of the availability zone into which this volume is created.

snapshot_id - *string*

Identifier of the snapshot associated with this volume.

attachments - *list*

List of attachments this volume is associated with.

created_at - *string*

Volume creation timestamp.

26.3 Response Codes

Success

HTTP/1.1 200 OK

Failure

HTTP/1.1 400 Bad Request

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found - The resource does not exist.

HTTP/1.1 409 Conflict

26.4 Examples

Successfully create a new volume

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "volume" : {
    "display_name" : "test_volume_001",
    "display_description" : "Test_Volume_001_Description.",
    "size" : 30,
    "volume_type" : "289da7f8-6440-407c-9fb4-7db01ec49164",
    "metadata" : {
      "contents": "junk"
    },
    "availability_zone" : "test_zone"
  }
}
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "volume": {
    "status": "Pending",
    "id": 8,
    "display_name" : "test_volume_001",
    "display_description" : "Test_Volume_001_Description.",
    "size" : 30,
    "availability_zone" : "test_zone"
    "attachments": [],
    "created_at": "2012-05-07 15:15:21.678868"
  }
}
```

Failure while trying to create a new volume with an already existing volume name

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "volume" : {
    "display_name" : <span style="color:red">"test_volume_001"</span>,
    "display_description" : "Test creating a new volume with already existing volume name.",
    "size" : 30,
    "volume_type" : "289da7f8-6440-407c-9fb4-7db01ec49164",
    "metadata" : {"contents": "junk"},
    "availability_zone" : "test_zone"
  }
}
```

Response Code:

HTTP/1.1 409 Conflict

```
{
  "conflict": {
    "message": "VolumeNameAlreadyExists",
    "code": 409,
    "details": "hbs name already exists",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efel6e83bf"
  }
}
```

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

```
{
  "volume": {
    "display_name": <span style="color:red">"vol-test-name-toooooooooooooooooooooooooooooooooooooooolong"</span>,
    "display_description": "Test creating a volume with too long volume name.",
    "size": 30,
    "volume_type": "289da7f8-6440-407c-9fb4-7db01ec49164",
    "metadata": {"contents": "junk"},
    "availability_zone": "test_zone"
  }
}
```

HTTP/1.1 400 Bad Request

```
{
  "badRequest": {
    "message": "DisplayNameTooLong",
    "code": 400,
    "details": "String length exceeded. check your arguments",
    "errorid": "59e0b3dd-2173-432a-8ff5-60ef16e83bf"
  }
}
```

POST http(s)://{api server}/accounts/{accountId}/flexcloud/volumes

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

```
{
  "volume" : {
    "display_name" : "vol-test-name-invalid-zone",
    "display_description" : "Test creating a volume with invalid availability zone(empty zone).",
    "size" : 10,
    "volume_type" : "289da7f8-6440-407c-9fb4-7db01ec49164",
    "metadata" : { "contents": "junk" },
    "availability_zone" : <span style="color:red">"</span>
  }
}
```

HTTP/1.1 400 Bad Request

```
{
  "badRequest": {
    "message": "Invalid",
    "code": 400,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efel6e83bf"
  }
}
```

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

```
{
  "volume" : {
    "display_name" : "vol-test-name-invalid-zone",
    "display_description" : "Test creating a volume with invalid availability zone(empty zone).",
    "size" : <span style="color:red">500</span>,
    "volume_type" : "289da7f8-6440-407c-9fb4-7db01ec49164",
    "metadata" : {"contents": "junk"},
    "availability_zone" : "test_zone"
  }
}
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest": {
    "message": "VolumeSize",
    "code": 400,
    "details": "not available HBS Size",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Unauthorized access

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

POST http(s)://{api_server}/accounts/fake/flexcloud/volumes

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

26.5 Alternative URI /volumes

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /volumes

27 Delete Allocated Flexible IP

This operation will delete the specified allocated flexible IP address.

28 DELETE /accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}

Deletes and deallocates the specified allocated flexible IP address.

28.1 Parameters

accountId - *string*
The selected account Id.

ip_address - *string*

28.2 Response Codes

Success
HTTP/1.1 202 Accepted

Failure
HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied incorrect credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

28.3 Examples

Delete the specified allocated flexible IP address

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 202 Accepted

Failure while trying to delete a non-existent allocated floating IP address

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{fake_ip_address}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Unauthorized access

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

DELETE http(s)://{api_server}/accounts/fake/flexcloud/os-floating-ips/{ip_address}

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

28.4 Alternative URI /os-floating-ips/{ip_address}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
DELETE /os-floating-ips/{ip_address}
```

29 Delete Firewall Group

This operation will delete the specified firewall group.

30 DELETE /accounts/{accountId}/flexcloud/os-security-groups/{id}

This operation will delete the specified firewall group.

30.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the firewall group.

30.2 Response Codes

Success

HTTP/1.1 204 No Content

Failure

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found - The resource does not exist.

30.3 Examples

Successfully delete the specified firewall group

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/group2012May11_OK30Zs7Ju

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 204 No Content

Failure while trying to make unauthorized access

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/group2012May11_OK30Zs7Ju

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to delete a non-existent firewall group

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/{fake_firewall_group_name}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Failure while trying to pass invalid account number

DELETE http(s)://{api_server}/accounts/fake/flexcloud/os-security-groups/group2012May11_OK30Zs7Ju

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

30.4 Alternative URI /os-security-groups/{name}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
DELETE /os-security-groups/{name}
```

31 Delete Firewall Group Rule

This operation will delete a firewall group rule.

32 DELETE /accounts/{accountId}/flexcloud/os-security-group-rules/{id}

This operation will delete a firewall group rule.

32.1 Parameters

accountId - *string*
The selected account Id.

id - *string*
The unique firewall group rule identifier.

32.2 Response Codes

Success
HTTP/1.1 204 No Content

Failure
HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

32.3 Examples

Successfully delete the specified firewall group rule

```
DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-group-rules/{firewall_group_rule_id}
```

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 204 No Content

Failure while trying to delete a non-existent firewall group rule

```
DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-group-rules/{fake_firewall_group_rule_id}
```

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Failure while trying to make unauthorized access

```
DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-group-rules/{firewall_group_rule_id}
```

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

```
DELETE http(s)://{api_server}/accounts/fake/flexcloud/os-security-group-rules/{firewall_group_rule_id}
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```


32.4 Alternative URI /os-security-group-rules/id

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
DELETE /os-security-group-rules/{id}
```

33 Delete Volume

This operation will delete a single volume.

34 DELETE /accounts/{accountId}/flexcloud/volumes/{id}

This operation will delete a single volume.

34.1 Parameters

accountId - *string*
The selected account Id.

id - *string*
The unique volume identifier.

34.2 Response Codes

Success
HTTP/1.1 204 No Content

Failure
HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

34.3 Examples

Successfully delete the specified volume

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes/{volume_id}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 204 No Content

Failure while trying to delete a non-existent volume

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes/{fake_volume_id}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Failure while trying to make an unauthorized access

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes/{volume_id}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

DELETE http(s)://{api_server}/accounts/fake/flexcloud/volumes/{volume_id}

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

34.4 Alternative URI /volumes/{volume_id}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the *authorization header*.

```
DELETE /volumes/{volume_id}
```

35 DetachVolumeFromServer

This operation detaches a volume attachment from the server specified.

36 DELETE

/accounts/{accountId}/flexcloud/servers/{server_id}/os-volume_attachments/{volume_id}

36.1 Parameters

accountId - *string*

The selected account Id.

server_id

The unique identifier of the server.

volume_id

The unique volume identifier.

36.2 Response Codes

Success

HTTP/1.1 204 No Content

Failure

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied incorrect credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found - The resource does not exist.

36.3 Examples

Successfully detach a server's volume attachment

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test-server-0013/os-volume_attachments/hbs2012May03_00xRg0Jz7

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 204 No Content

Failure while trying to detach a volume attachment that does not exist

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test-server-0013/os-volume_attachments/fake_volume_id

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound":
    {
      "message": "Resource not found",
      "code": 404,
      "details": "",
      "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
    }
}
```

Failure while trying to detach a volume attachment for a server that does not exist

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/fake_server_id/os-volume_attachments/hbs2012May03_00xRg0Jz7

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound":
    {
      "message": "Resource not found",
      "code": 404,
      "details": "",
      "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
    }
}
```

Unauthorized request

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test-server-0013/os-volume_attachments/hbs2012May03_0OxRg0Jz7

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

DELETE http(s)://{api_server}/accounts/fake/flexcloud/servers/{id}/os-volume_attachments/hbs2012May03_0OxRg0Jz7

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

36.4 Alternative URI /servers/{server_id}/os-volume_attachments/{volume_id}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

DELETE /servers/{server_id}/os-volume_attachments/{volume_id}

37 Edit Firewall Group

This operation will update displayname and/or description of the specified firewall group.

38 PUT /accounts/{accountId}/flexcloud/os-security-groups/{id}

38.1 Parameters

accountId - *string*
The selected account Id.

id
The unique identifier of the firewall group.

38.2 Request

38.2.1 JSON

```
{
  "securityGroup" : {
    "displayName" : "{firewall_group_display_name}",
    "description" : "{firewall_group_description}",
  }
}
```

38.3 Response

38.3.1 JSON

```
{
  "securityGroup" : {
    "displayName" : "{firewall_group_display_name}",
    "description" : "{firewall_group_description}",
    "links" : [
      {
        "href" : "http://{api-server}/accounts/{accountId}/flexcloud/os-security-groups/{firewall_group_name}/",
        "rel" : "self"
      }
    ],
    "rules" : [
      {
        "fromPort" : "{start_port}",
        "toPort" : "{end_port}",
        "protocol" : "{ip_protocol}",
        "cidr" : "0.0.0.0/0",
        "id" : "145"
      },
      {
        "fromPort" : "{start_port}",
        "toPort" : "{end_port}",
        "protocol" : "{ip_protocol}",
        "cidr" : "127.0.0.1/0",
        "id" : "169"
      }
    ],
    "servers" : [{"server_id"}],
    "accountNumber" : "{user_account_number}",
    "id" : "{firewall_group_name}"
  }
}
```

38.4 Response Codes

Success
HTTP/1.1 200 OK

Failure
HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

38.5 Examples

Successfully edit details for specified firewall group

PUT http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/group2012May11_OK30Zs7Ju

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "securityGroup" : {
    "displayName": "New display name",
    "description": "New description",
  }
}
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
```

```

"securityGroup" : {
  "displayName": "New display name",
  "description": "New description.",
  "links": [
    {
      "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/group2012May11_OK30Zs7Ju/",
      "rel": "self"
    }
  ],
  "rules": [
    {
      'toPort': 1111,
      'fromPort': 1111,
      'protocol': 'TCP',
      'id': 145,
      'cidr': '0.0.0.0/0'
    },
    {
      'toPort': 80,
      'fromPort': 80,
      'protocol': 'tcp',
      'id': 196,
      'cidr': '127.0.0.1/24'
    }
  ],
  "id": "group2012May11_OK30Zs7Ju",
  "accountNumber": "test_account_120761",
  "servers": ["test-server-0003"]
}
}

```

Failure while trying to edit a firewall group that does not exist

PUT http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/{fake_firewall_group_name}

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```

{
  "itemNotFound":
  {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

39 Flavor

40 GET /accounts/{accountId}/flexcloud/flavors/detail/{id}

This operation will return size details of a single flavor.

40.1 Contents

- 1 GET /accounts/{accountId}/flexcloud/flavors/detail/{id}
 - ◆ 1.1 Request
 - ◇ 1.1.1 Parameters
 - ◆ 1.2 Response
 - ◇ 1.2.1 Status Code
 - ◇ 1.2.2 Response Body
 - 1.2.2.1 Parameters
 - ◆ 1.3 Examples
 - ◇ 1.3.1 Successfully view flavor details
 - ◇ 1.3.2 Failure while trying to make an unauthorized request
 - ◇ 1.3.3 Failure while trying to access a flavor that is not allowed for this user
 - ◇ 1.3.4 Failure while trying to access a flavor that does not exist
 - ◇ 1.3.5 Account not found
 - ◆ 1.4 Alternative URI /flavors/detail/{id}
 - ◆ 1.5 See also

40.2 Request

GET /accounts/{accountId}/flexcloud/flavors/detail/{id}

40.2.1 Parameters

accountId - *string*
The selected account Id.

id
The unique identifier of the flavor to be retrieved. *Note see warnings in [Hypermedia](#).*

40.3 Response

40.3.1 Status Code

200 OK
Success

401 Unauthorized
This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

403 Forbidden
The resource cannot be accessed by the user

404 Not Found
The requested resource does not exist

40.3.2 Response Body

```
{
  "flavor": {
    "name": "{display_flavor_name}",
    "links": [
      { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/flavors/{flavor_id}/", "rel": "self" }
    ],
    "vcpu": "1",
    "ram": 512,
    "disk": 10,
    "id": "{flavor_id}"
  }
}
```

40.3.2.1 Parameters

id - *string*
Unique identifier for this flavor.

links - *array*
[Hypermedia](#) for this resource.

name - *string*
Display name for this flavor.

ram - *number*
Memory allocated with this flavor. Specified in MB.

disk - *number*
Disk space allocated with this flavor. Specified in GB.

vcpu - *number*
Number of CPUs allocated with this flavor.

40.4 Examples

40.4.1 Successfully view flavor details

Request

```
GET /accounts/{accountId}/flexcloud/flavors/1
Authorization: Basic {Base64-encoded username:password string}
```

Response

200 OK

```
{
  "flavor": {
    "name": "Small",
    "links": [
      { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/flavors/1/", "rel": "self" }
    ],
    "vcpu": "1",
    "ram": 512,
    "disk": 10,
    "id": "1"
  }
}
```

40.4.2 Failure while trying to make an unauthorized request

Request

```
GET /accounts/{accountId}/flexcloud/flavors/1
Authorization: Basic {invalid authorization}
```

Response

401 Unauthorized

40.4.3 Failure while trying to access a flavor that is not allowed for this user

Request

```
GET /accounts/{accountId}/flexcloud/flavors/101
Authorization: Basic {Base64-encoded username:password string}
```

Response

403 Forbidden

```
{
  "forbidden": {
    "message": "forbidden",
    "code": 403,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

40.4.4 Failure while trying to access a flavor that does not exist

Request

```
GET /accounts/{accountId}/flexcloud/flavors/missing_flavor_id
Authorization: Basic {Base64-encoded username:password string}
```

Response

404 Not Found

```
{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

40.4.5 Account not found

Request

```
GET /accounts/fake/flexcloud/flavors/101
Authorization: Basic {Base64-encoded username:password string}
```

Response

```
{
  "itemNotFound": {
    "guid": "23684df5-0532-4794-802d-fdc82e4e7e7c",
    "message": "Resource not found",
    "code": 404,
    "details": ""
  }
}
```

40.5 Alternative URI /flavors/detail/{id}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /flavors/detail/{id}
```

40.6 See also

- [FlexCloud Server API](#)
- [Common Features](#)

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41 FlavorList

42 GET

/accounts/{accountId}/flexcloud/flavors?minDisk={diskInGB}&minRam={ramInMB}

Lists all available flavors optionally limited by the query parameters.

42.1 Contents

- 1 GET
/accounts/{accountId}/flexcloud/flavors?minDisk={diskInGB}&minRam={ramInMB}
 - ◆ 1.1 Request
 - ◇ 1.1.1 URI Parameters
 - ◆ 1.2 Response
 - ◇ 1.2.1 Status Code
 - ◇ 1.2.2 Response Body
 - 1.2.2.1 Parameters
 - ◆ 1.3 Examples
 - ◇ 1.3.1 Successfully list available flavors
 - ◇ 1.3.2 Failure while trying to make an unauthorized request
 - ◇ 1.3.3 Account not found
 - ◆ 1.4 See also
 - ◆ 1.5 Alternative URI /flavors

42.2 Request

GET /accounts/{accountId}/flexcloud/flavors?minDisk={diskInGB}&minRam={ramInMB}

42.2.1 URI Parameters

accountId - *string*
The selected account Id.

minDisk - *int*
Optional Only flavors with a disk size greater than or equal to minDisk will be returned. Specified in GB.

minRam - *int*
Optional Only flavors with a memory size greater than or equal to minRam will be returned. Specified in MB.

Also see [Pagination](#)

42.3 Response

42.3.1 Status Code

200 OK
Success

401 Unauthorized
Failure - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

404 Not Found
Failure - Resource does not exists

42.3.2 Response Body

```
{
  "flavors": [
    {
      "id": "{flavor_id}",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/flavors/{flavor_id}/", "rel": "self" }
      ],
      "name": "{display_flavor_name}"
    },
    {
      "id": "{flavor_id}",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/flavors/{flavor_id}/", "rel": "self" }
      ],
      "name": "{display_flavor_name}"
    }
  ]
}
```

42.3.2.1 Parameters

id - *string*
Unique identifier for this flavor.

links - *array*
[Hypermedia](#) for this resource.

name - *string*
Display name for this flavor.

42.4 Examples

42.4.1 Successfully list available flavors

Request

```
GET /accounts/{accountId}/flexcloud/flavors
Authorization: Basic {Base64-encoded username:password string}
```

Response

200 OK

```
{
  "flavors": [
    {
      "name": "Small",
      "links": [
        {"href": "https://api.hostway.com/accounts/{accountId}/flexcloud/flavors/1/", "rel": "self"},
        {"href": "https://api.hostway.com/accounts/{accountId}/flexcloud/flavors/1/", "rel": "bookmark"}
      ],
      "id": "1"
    },
    {
      "name": "Large",
      "links": [
        {"href": "https://api.hostway.com/accounts/{accountId}/flexcloud/flavors/3/", "rel": "self"},
        {"href": "https://api.hostway.com/accounts/{accountId}/flexcloud/flavors/3/", "rel": "bookmark"}
      ],
      "id": "3"
    }
  ]
}
```

42.4.2 Failure while trying to make an unauthorized request

Request

```
GET /accounts/{accountId}/flexcloud/flavors
Authorization: Basic {invalid authorization}
```

Response

401 Unauthorized

42.4.3 Account not found

Request

```
GET /accounts/fake/flexcloud/flavors
Authorization: Basic {Base64-encoded username:password string}
```

Response

```
{
  "itemNotFound": {
    "guid": "23684df5-0532-4794-802d-fdc82e4e7e7c",
    "message": "Resource not found",
    "code": 404,
    "details": ""
  }
}
```

42.5 See also

- [FlexCloud Server API](#)
- [Common Features](#)

42.6 Alternative URI /flavors

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /accounts/{accountId}/flexcloud/flavors
```

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43 FlavorListDetails

44 GET

/accounts/{accountId}/flexcloud/flavors/detail?minDisk={diskInGB}&minRam={ramInMB}

This operation will list all available flavors with size details optionally limited by the query parameters.

44.1 Contents

- 1 GET
 - /accounts/{accountId}/flexcloud/flavors/detail?minDisk={diskInGB}&minRam={ramInMB}
 - ◆ 1.1 Request
 - ◇ 1.1.1 URI Parameters
 - ◆ 1.2 Response
 - ◇ 1.2.1 Status Code
 - ◇ 1.2.2 Response Body
 - 1.2.2.1 Parameters
 - ◆ 1.3 Examples
 - ◇ 1.3.1 Successfully list flavors with details
 - ◇ 1.3.2 Failure while trying to make an unauthorized request
 - ◇ 1.3.3 Account not found
 - ◆ 1.4 Alternative URI /flavors/detail
 - ◆ 1.5 See also

44.2 Request

GET /accounts/{accountId}/flexcloud/flavors/detail?minDisk={diskInGB}&minRam={ramInMB}

44.2.1 URI Parameters

accountId - *string*
The selected account Id.

minDisk - *int*
Optional Only flavors only with a disk size greater than or equal to minDisk will be returned. Specified in GB.

minRam - *int*
Optional Only flavors with a memory size greater than or equal to minRam will be returned. Specified in MB.

Also see [Pagination](#)

44.3 Response

44.3.1 Status Code

200 OK
Success

401 Unauthorized
Failure - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

404 Not Found
Failure - Resource does not exist

44.3.2 Response Body

```
{
  "flavors": [
    {
      "name": "{display_flavor_name}",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/flavors/{flavor_id}/", "rel": "self" }
      ],
      "vcpu": 1,
      "ram": 512,
      "disk": 10,
      "id": "{flavor_id}"
    },
    {
      "name": "{display_flavor_name}",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/flavors/{flavor_id}/", "rel": "self" }
      ],
      "vcpu": 4,
      "ram": 16384,
      "disk": 60,
      "id": "{flavor_id}"
    }
  ]
}
```

44.3.2.1 Parameters

id - *string*
Unique identifier for this flavor.

links - *array*
[Hypermedia](#) for this resource.

name - *string*
Display name for this flavor.

ram - *number*
Memory allocated with this flavor. Specified in MB.

disk - *number*
Disk space allocated with this flavor. Specified in GB.

vcpu - *number*
Number of CPUs allocated with this flavor.

44.4 Examples

44.4.1 Successfully list flavors with details

Request

```
GET /accounts/{accountId}/flexcloud/flavors/detail
Authorization: Basic {Base64-encoded username:password string}
```

Response

```
200 OK

{
  "flavors": [
    {
      "name": "Small",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/flavors/1/", "rel": "self" }
      ],
      "vcpu": 1,
      "ram": 512,
      "disk": 10,
      "id": "1"
    },
    {
      "name": "Large",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/flavors/2/", "rel": "self" }
      ],
      "vcpu": 4,
      "ram": 16384,
      "disk": 60,
      "id": "2"
    }
  ]
}
```

44.4.2 Failure while trying to make an unauthorized request

Request

```
GET /accounts/{accountId}/flexcloud/flavors/detail
Authorization: Basic {invalid authorization}
```

Response

```
401 Unauthorized
```

44.4.3 Account not found

Request

```
GET /accounts/{accountId}/flexcloud/flavors/detail
Authorization: Basic {Base64-encoded username:password string}
```

Response

```
{
  "itemNotFound": {
    "guid": "23684df5-0532-4794-802d-fdc82e4e7e7c",
    "message": "Resource not found",
    "code": 404,
    "details": ""
  }
}
```

44.5 Alternative URI /flavors/detail

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /flavors/detail
```

44.6 See also

- [FlexCloud Server API](#)
- [Common Features](#)

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45 FlexCloud Server

46 FlexCloud Server API

FlexCloud Server is a web service that provides compute capacity in the cloud. It is designed to allow you to quickly scale capacity as your computing requirements change. You can setup and provision [Server](#) Instances and other computing resources in minutes programmatically via the FlexCloud Server API. You have full control over your computing resources and you only pay for what you use.

The base URL for the FlexCloud Server API <https://api.hostwayenterprise.com/>

46.1 Contents

- 1 FlexCloud Server API
 - ◆ 1.1 Flavor
 - ◆ 1.2 Image
 - ◆ 1.3 Zone
 - ◆ 1.4 Server
 - ◆ 1.5 Flexible IP
 - ◆ 1.6 Volume
 - ◆ 1.7 Security/Firewall Group
 - ◆ 1.8 See also

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46.2 Flavor

A Flavor is a set of resource constraints including RAM, disk size and number of CPUs. They are used to describe [Server](#), [ServerListDetails](#) and [ServerCreate](#).

- [FlavorList](#)
- [FlavorListDetails](#)
- [Flavor](#)

46.3 Image

An Image is a disk template that is used to create new servers [ServerCreate](#). They are also used to inspect running [ServerListDetails](#) and [Server](#) instances.

- [ImageList](#)
- [ImageListDetails](#)
- [Image](#)

46.4 Zone

- [Zone](#)

46.5 Server

A Server is a virtual machine instance in the cloud infrastructure. [Flavor](#), [Image](#) and [Zone](#) are requisite elements when creating a server.

- [ServerList](#)
- [ServerListDetails](#)
- [Server](#)
- [ServerCreate](#)
- [ServerActions](#)
 - ◆ [ServerActionReboot](#)
 - ◆ [ServerActionStop](#)
 - ◆ [ServerActionStart](#)
 - ◆ [ServerActionResize](#)
 - ◆ [ServerActionAddFlexibleIP](#)
 - ◆ [ServerActionRemoveFlexibleIP](#)
 - ◆ [ServerActionUpgradePlesk](#)
- [ListServerIPs](#)
- [AttachVolumeToServer](#)
- [ListVolumeAttachmentsForServer](#)
- [ListVolumeDetailsForServerVolumeAttachment](#)
- [DetachVolumeFromServer](#)
- [ServerMonitoringDetails](#)
 - ◆ [ServerMonitoringDetailsCPU](#)
 - ◆ [ServerMonitoringDetailsDisk](#)
 - ◆ [ServerMonitoringDetailsBandwidth](#)
- [ServerSnapshotList](#)
- [ServerSnapshot](#)
- [ServerSnapshotCreate](#)
- [ServerSnapshotActions](#)

- ♦ [ServerSnapshotActionRestore](#)
- [AssignSecurityGroupToServer](#)

46.6 Flexible IP

A Flexible IP address is a static IP address that can be bound to any single Server. When you associate a flexible IP with a Server the IP is bound to that Server's network interface. You will use your flexible IP to connect to your Server. You can allocate IPs and release IPs from your account as needed.

- [Allocate Flexible IP](#)
- [List Flexible IPs](#)
- [View Allocated Flexible IP](#)
- [Delete Allocated Flexible IP](#)

46.7 Volume

A Volume provides storage space that can be used with your Server. This storage space is independent from the storage space that is included with your Server. Once a volume is created, it can be easily attached to a Server. Once attached, it will appear as a mounted device. You can attach multiple volumes to a Server.

- [Create Volume](#)
- [View Single Volume](#)
- [List Volumes](#)
- [List Volumes Detail](#)
- [Delete Volume](#)

46.8 Security/Firewall Group

A Security/Firewall Group defines firewall rules for your Server. You have the ability to configure your firewall connections and secure your network as required. You may have one or multiple servers behind a firewall group. Hostway provides a default firewall group, and typical firewall rules are already configured. You can create multiple firewall groups as needed.

- [Create Firewall Group](#)
- [List Firewall Groups](#)
- [View Firewall Group Details](#)
- [Edit Firewall Group](#)
- [Delete Firewall Group](#)
- [Create Firewall Group Rule](#)
- [List Firewall Group Rules](#)
- [Delete Firewall Group Rule](#)

46.9 See also

- [Common Features](#)

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47 Image

48 GET /accounts/{accountId}/flexcloud/images/{id}

Returns details for a single image.

48.1 Contents

- 1 GET /accounts/{accountId}/flexcloud/images/{id}
 - ◆ 1.1 Request
 - ◇ 1.1.1 Parameters
 - ◆ 1.2 Response
 - ◇ 1.2.1 Status Code
 - ◇ 1.2.2 Response Body
 - 1.2.2.1 Parameters
 - ◆ 1.3 Examples
 - ◇ 1.3.1 Successfully view image
 - ◇ 1.3.2 Failure while trying to make an unauthorized request
 - ◇ 1.3.3 Permission denied failure
 - ◇ 1.3.4 Failure while trying to request for an image that does not exist
 - ◇ 1.3.5 Account Number not found
 - ◆ 1.4 Alternative URI /images/{id}
 - ◆ 1.5 See also

48.2 Request

GET /accounts/{accountId}/flexcloud/images/{id}

48.2.1 Parameters

accountId

The selected account Id.

id

The unique identifier of the image to be retrieved. *Note see warnings in [Hypermedia](#).*

48.3 Response

48.3.1 Status Code

200 OK

Success

401 Unauthorized

This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

403 Forbidden

The resource is forbidden for this user

404 Not Found

The resource does not exist

48.3.2 Response Body

```
{
  "image": {
    "status": "SAVING",
    "updated": null,
    "name": "{display_image_name}",
    "links": [
      { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/{image_id}/", "rel": "self" },
      { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/{image_id}/", "rel": "bookmark" }
    ],
    "created": "yyyy-mm-ddThh:mm:ss",
    "id": "{image_id}",
    "zones": [ "{zone_id}" ]
  }
}
```

48.3.2.1 Parameters

id - *string*

Unique identifier for this image.

links - *array*

[Hypermedia](#) for this resource.

name - *string*

Display name for this image.

status - *string*

Current state of this image. Valid values are ACTIVE, SAVING, DELETED.

ACTIVE - Image is ready to be used.

SAVING - Image is being uploaded or saved from a running [Server](#) instance.

DELETED - Image was recently deleted or is in the process of being deleted.

created - *string*

The date and time the image was created. ISO 8601 format, YYYY-MM-DDTHH:MM:SS.

updated
Unused always null.

zones - *string*
Zones where the image is available.

48.4 Examples

48.4.1 Successfully view image

Request

```
GET /accounts/{accountId}/flexcloud/images/133
Authorization: Basic {Base64-encoded username:password string}
```

Response

```
200 OK

{
  "image": {
    "status": "SAVING",
    "updated": null,
    "name": "test_debian_image",
    "links": [
      { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/133/", "rel": "self" },
      { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/133/", "rel": "bookmark" }
    ],
    "created": "2011-09-30T02:38:57",
    "id": "133",
    "zones": ["AUS001"]
  }
}
```

48.4.2 Failure while trying to make an unauthorized request

Request

```
GET /accounts/{accountId}/flexcloud/images/133
Authorization: Basic {invalid authorization}
```

Response

```
401 Unauthorized
```

48.4.3 Permission denied failure

Request

```
GET /accounts/{accountId}/flexcloud/images/122
Authorization: Basic {Base64-encoded username:password string}
```

Response

```
403 Forbidden

{
  "forbidden": {
    "message": "forbidden",
    "code": 403,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

48.4.4 Failure while trying to request for an image that does not exist

Request

```
GET /accounts/{accountId}/flexcloud/images/missing_image_id
Authorization: Basic {Base64-encoded username:password string}
```

Response

```
404 Not Found

{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

48.4.5 Account Number not found

Request

```
GET /accounts/fake/flexcloud/images/122
Authorization: Basic {Base64-encoded username:password string}
```

Response

```
{
  "itemNotFound": {
    "guid": "23684df5-0532-4794-802d-fdc82e4e7e7c",
    "message": "Resource not found",
    "code": 404,
    "details": ""
  }
}
```

48.5 Alternative URI /images/{id}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /images/{id}

48.6 See also

- [FlexCloud Server API](#)
- [Common Features](#)

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49 ImageList

50 GET

/accounts/{accountId}/flexcloud/images?name={imageName}&status={imageStatus}&t

Lists all images.

50.1 Contents

- 1 GET
/accounts/{accountId}/flexcloud/images?name={imageName}&status={imageStatus}&type={imageType}&zone={zoneId}
 - ◆ 1.1 Request
 - ◇ 1.1.1 Parameters
 - ◆ 1.2 Response
 - ◇ 1.2.1 Status Code
 - ◇ 1.2.2 Response Body
 - 1.2.2.1 Parameters
 - ◆ 1.3 Examples
 - ◇ 1.3.1 Successfully list images
 - ◇ 1.3.2 Failure while trying to make an unauthorized request
 - ◇ 1.3.3 Account Number not found
 - ◆ 1.4 Alternative URI /images
 - ◆ 1.5 See also

50.2 Request

GET /accounts/{accountId}/flexcloud/images?name={imageName}&status={imageStatus}&type={imageType}&zone={zoneId}

50.2.1 Parameters

accountId - *string*
The selected account Id.

name - *string*
Optional image name to search for.

status - *string*
Optional Image status to search for. Values: **ACTIVE**, **SAVING**, **DELETED**.

type - *string*
Optional type of the image to search for. Values: **BASE**, **SERVER**.

zone - *string*
Optional the zone where the image is available.

50.3 Response

50.3.1 Status Code

200 OK
Success

401 Unauthorized
Failure - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

404 Not Found
Failure - The Resource does not exist

50.3.2 Response Body

```
{
  "images": [
    {
      "name": "{display_image_name}",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/{image_id}/", "rel": "self" },
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/{image_id}/", "rel": "bookmark" }
      ],
      "id": "{image_id}",
      "zones": [ "{zone_id_1}", "{zone_id_2}" ]
    },
    {
      "name": "{display_image_name}",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/{image_id}/", "rel": "self" },
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/{image_id}/", "rel": "bookmark" }
      ],
      "id": "{image_id}",
      "zones": [ "{zone_id}" ]
    }
  ]
}
```

50.3.2.1 Parameters

id - *string*
Unique identifier for this image.

links - *array*
Hypermedia for this resource.

name - *string*
Display name for this image.

zones - *string*
Zones where the image is available.

50.4 Examples

50.4.1 Successfully list images

Request

```
GET /accounts/{accountId}/flexcloud/images
Authorization: Basic {Base64-encoded username:password string}
```

Response

200 OK

```
{
  "images": [
    {
      "name": "test_public_image",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/123/", "rel": "self" },
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/123/", "rel": "bookmark" }
      ],
      "id": "123",
      "zones": ["AUS001"]
    },
    {
      "name": "test_debian_image",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/290/", "rel": "self" },
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/290/", "rel": "bookmark" }
      ],
      "id": "290",
      "zones": ["AUS001"]
    },
    {
      "name": "test_private_image",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/233/", "rel": "self" },
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/233/", "rel": "bookmark" }
      ],
      "id": "233",
      "zones": ["AUS001"]
    }
  ]
}
```

50.4.2 Failure while trying to make an unauthorized request

Request

```
GET /accounts/{accountId}/flexcloud/images
Authorization: Basic {invalid authorization}
```

Response

401 Unauthorized

50.4.3 Account Number not found

Request

```
GET /accounts/fake/flexcloud/images
Authorization: Basic {Base64-encoded username:password string}
```

Response

```
{
  "itemNotFound": {
    "guid": "23684df5-0532-4794-802d-fdc82e4e7c",
    "message": "Resource not found",
    "code": 404,
    "details": ""
  }
}
```

50.5 Alternative URI /images

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /images
```

50.6 See also

- [FlexCloud Server API](#)
- [Common Features](#)

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51 ImageListDetails

52 GET

/accounts/{accountId}/flexcloud/images/detail?name={imageName}&status={imageStatus}

This operation will list all images including their details.

52.1 Contents

- 1 GET
/accounts/{accountId}/flexcloud/images/detail?name={imageName}&status={imageStatus}&type={imageType}&zone={zoneId}
 - ◆ 1.1 Request
 - ◇ 1.1.1 URI Parameters
 - ◆ 1.2 Response
 - ◇ 1.2.1 Status Code
 - ◇ 1.2.2 Response Body
 - 1.2.2.1 Parameters
 - ◆ 1.3 Examples
 - ◇ 1.3.1 Successfully list image details
 - ◇ 1.3.2 Failure while trying to make an unauthorized request
 - ◇ 1.3.3 Account Number not found
 - ◆ 1.4 Alternative URI
/images/detail?name={imageName}&status={imageStatus}&type={imageType}&zone={zoneId}
 - ◆ 1.5 See also

52.2 Request

GET

/accounts/{accountId}/flexcloud/images/detail?name={imageName}&status={imageStatus}&type={imageType}&zone={zoneId}

52.2.1 URI Parameters

accountId - *string*

The ID of the selected account.

name - *string*

Optional image name to search for.

status - *string*

Optional Image status to search for. Values: **ACTIVE**, **SAVING**, **DELETED**.

type - *string*

Optional type of the image to search for. Values: **BASE**, **SERVER**.

zone - *string*

Optional the Zone where the image is available.

52.3 Response

52.3.1 Status Code

200 OK

Success

401 Unauthorized

Failure - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

404 Not Found

Failure - The Resource was not found

52.3.2 Response Body

```
{
  "images": [
    {
      "status": "{status}",
      "updated": null,
      "name": "{display_image_name}",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/{image_id}/", "rel": "self" },
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/{image_id}/", "rel": "bookmark" }
      ],
      "created": "yyyy-mm-ddThh:mm:ss",
      "id": "{image_id}",
      "zones": [ "{zone_id}" ]
    },
    {
      "status": "{status}",
      "updated": null,
      "name": "{display_image_name}",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/{image_id}/", "rel": "self" },
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/{image_id}/", "rel": "bookmark" }
      ],
      "created": "yyyy-mm-ddThh:mm:ss",
      "id": "{image_id}",
      "zones": [ "{zone_id_1}", "{zone_id_2}" ]
    }
  ]
}
```

52.3.2.1 Parameters

- id** - *string*
Unique identifier for this image.
- links** - *array*
[Hypermedia](#) for this resource.
- name** - *string*
Display name for this image.
- status** - *string*
Current state of this image. Valid values are ACTIVE, SAVING, DELETED.
ACTIVE - Image is ready to be used.
SAVING - Image is being uploaded or saved from a running [Server](#) instance.
DELETED - Image was recently deleted or is in the process of being deleted.
- created** - *string*
The date and time the image was created. ISO 8601 format, YYYY-MM-DDTHH:MM:SS.
- updated**
Unused always null.
- zones**
Zones where the image is available.

52.4 Examples

52.4.1 Successfully list image details

Request

```
GET /accounts/{accountId}/flexcloud/images/detail
Authorization: Basic {Base64-encoded username:password string}
```

Response

200 OK

```
{
  "images": [
    {
      "status": "ACTIVE",
      "updated": null,
      "name": "test_public_image",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/123/", "rel": "self" },
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/123/", "rel": "bookmark" }
      ],
      "created": "2011-11-09T03:19:48",
      "id": "123",
      "zones": ["AUS001"]
    },
    {
      "status": "SAVING",
      "updated": null,
      "name": "test_debian_image",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/233/", "rel": "self" },
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/233/", "rel": "bookmark" }
      ],
      "created": "2011-09-30T02:38:57",
      "id": "233",
      "zones": ["AUS001"]
    },
    {
      "status": "ACTIVE",
      "updated": null,
      "name": "test_private_image",
      "links": [
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/145/", "rel": "self" },
        { "href": "https://api.hostway.com/accounts/{accountId}/flexcloud/images/145/", "rel": "bookmark" }
      ],
      "created": "2011-11-09T03:19:01",
      "id": "145",
      "zones": ["AUS001"]
    }
  ]
}
```

52.4.2 Failure while trying to make an unauthorized request

Request

```
GET /accounts/{accountId}/flexcloud/images/detail
Authorization: Basic {invalid authorization}
```

Response

401 Unauthorized

52.4.3 Account Number not found

Request

```
GET /accounts/fake/flexcloud/images
Authorization: Basic {Base64-encoded username:password string}
```

Response

```
{
  "itemNotFound": {
    "guid": "23684df5-0532-4794-802d-fdc82e4e7e7c",
    "message": "Resource not found",
    "code": 404,
    "details": ""
  }
}
```

52.5 Alternative URI

`/images/detail?name={imageName}&status={imageStatus}&type={imageType}&zone={zoneId}`

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /images/detail

52.6 See also

- [FlexCloud Server API](#)
- [Common Features](#)

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53 List Firewall Groups

This operation lists existing firewall groups.

54 GET /accounts/{accountId}/flexcloud/os-security-groups

This operation lists existing firewall groups.

54.1 Request

54.1.1 Request Parameters

accountId - *string*

The selected account Id.

54.2 Response

54.2.1 JSON

```
{
  "securityGroups" : [
    {
      "displayName" : "{firewall_group_display_name}",
      "description" : "{firewall_group_description}",
      "links" : [
        {
          "href" : "http://{api-server}/accounts/{accountId}/flexcloud/os-security-groups/{firewall_group_id}/",
          "rel" : "self"
        }
      ],
      "rules" : [
        {
          "fromPort" : {start_port},
          "toPort" : {end_port},
          "protocol" : "{ip_protocol}",
          "cidr" : "0.0.0.0/0",
          "id" : "145"
        }
      ],
      "servers" : [{server_id}],
      "accountNumber" : "{user_account_number}",
      "Id" : "{firewall_group_id}"
    }
  ]
}
```

54.2.1.1 security_groups

displayName - *string*

The display name of the firewall group.

description - *string*

Text describing the firewall group.

links - *list*

[Hypermedia](#) for this resource.

rules - *list*

List describing all defined security rules for the group.

fault - *dictionary*

Might hold a fault information for the firewall group.

servers - *list*

List of server ids this firewall group is assigned to.

accountNumber - *string*

Identifies an account that owns the firewall group.

id - *string*

The id of this firewall group. *(Unique identifier for this firewall group.)

54.3 Response Codes

Success

HTTP/1.1 200 OK

Failure

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

54.4 Examples

Successfully list firewall groups

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "securityGroup" : [
    {
      "displayName": "Test Firewall Group 1",
      "description": "Test firewall group 1 description.",
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/group2012May11_OK30Zs7Ju/",
          "rel": "self"
        }
      ],
      "rules": [
        {
          'toPort': 1111,
          'fromPort': 1111,
          'protocol': 'TCP',
          'id': 145,
          'cidr': '0.0.0.0/0'
        },
        {
          'toPort': 80,
          'fromPort': 80,
          'protocol': 'TCP',
          'id': 196,
          'cidr': '127.0.0.1/24'
        }
      ],
      "id": "group2012May11_OK30Zs7Ju",
      "accountNumber": "test_account_120761",
      "servers": ["test-server-0003"]
    },
    {
      "displayName": "Test Firewall Group",
      "description": "Test firewall group description.",
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/group2012Apr30_9J5qDwOIo/",
          "rel": "self"
        }
      ],
      "rules": [
        {
          'toPort': 3389,
          'fromPort': 3389,
          'protocol': 'tcp',
          'id': 116,
          'cidr': '0.0.0.0/0'
        },
        {
          'toPort': 8443,
          'fromPort': 8443,
          'protocol': 'tcp',
          'id': 117,
          'cidr': '0.0.0.0/0'
        },
        {
          'toPort': 22,
          'fromPort': 22,
          'protocol': 'tcp',
          'id': 118,
          'cidr': '0.0.0.0/0'
        }
      ],
      "id": "group2012Apr30_9J5qDwOIo",
      "accountNumber": "test_account_901265",
      "servers": ["test-server-0011", "test-server-0024"]
    }
  ]
}
```

Failure while trying to make unauthorized access

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

POST http(s)://{api_server}/accounts/fake/flexcloud/os-security-groups

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

54.5 Alternative URI /os-security-groups

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /os-security-groups

55 List Flexible IPs

56 GET /accounts/{accountId}/flexcloud/os-floating-ips

This operation will list all the allocated flexible IP addresses in your account.

56.1 Contents

- 1 GET
 /accounts/{accountId}/flexcloud/os-floating-ips
 - ◆ 1.1 Request
 - ◇ 1.1.1 Request Parameters
 - ◆ 1.2 Response
 - ◇ 1.2.1 JSON
 - 1.2.1.1 floating_ips
 - ◆ 1.3 Response Codes
 - ◆ 1.4 Examples
 - ◆ 1.5 Alternative URI
 /os-floating-ips

56.2 Request

GET /accounts/{accountId}/flexcloud/os-floating-ips

56.2.1 Request Parameters

accountId - *string*
The selected account Id.

56.3 Response

56.3.1 JSON

```
{
  "floating_ips" : [
    {
      "instance_id" : {instance_id},
      "ip": "{ip_address}",
      "fixed_ip": null,
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}/",
          "rel": "self"
        }
      ]
    },
    {
      "instance_id": "{instance_id}",
      "ip": "{ip_address}",
      "fixed_ip": null,
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}/",
          "rel": "self"
        }
      ]
    }
  ],
  "pool": "default"
}
```

56.3.1.1 floating_ips

instance_id - *string*
Unique instance identifier floating IP is assigned to.

ip - *string*
IP address allocated.

fixed_ip - *string*
Fixed IP address.

links - *list*
[Hypermedia](#) for this resource.

pool - *string*
Name of the pool IP address belongs to.

56.4 Response Codes

Success
HTTP/1.1 200 OK

56.5 Examples

List servers

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "floating_ips" : [
    {
      "instance_id" : null,
      "ip": "{ip_address}",
      "fixed_ip": null,
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}/",
          "rel": "self"
        }
      ],
      "pool": "default"
    },
    {
      "instance_id": "test_server_0013",
      "ip": "{ip_address}",
      "fixed_ip": null,
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}/",
          "rel": "self"
        }
      ],
      "pool": "default"
    }
  ]
}
```

Unauthorized access

GET http://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

GET http://{api_server}/accounts/fake/flexcloud/os-floating-ips

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

56.6 Alternative URI /os-floating-ips

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /os-floating-ips

57 List Volumes

58 GET /accounts/{accountId}/flexcloud/volumes

This operation will return a list of all existing volumes.

58.1 Result

58.1.1 Parameters

accountId - *string*
The selected account Id.

58.1.2 JSON

```
{
  "volumes" : [
    {
      "id": "{volume_id}",
      "display_name": "{display_volume_name}",
      "display_description": "{display_volume_description}",
      "size" : "{volume_size_quantity}",
      "volume_type" : "{volume_type_id}",
      "metadata" : {},
      "availability_zone" : "{availability_zone_id}",
      "attachments": [],
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/volumes/{volume_id}/",
          "rel": "self"
        }
      ],
      "snapshot_id": "",
      "created_at": "2012-05-03 11:35:44"
    },
    {
      "id": "{volume_id}",
      "display_name": "{display_volume_name}",
      "display_description": "{display_volume_description}",
      "size" : "{volume_size_quantity}",
      "volume_type" : "{volume_type_id}",
      "metadata" : {},
      "availability_zone" : "{availability_zone_id}",
      "attachments": [],
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/volumes/{volume_id}/",
          "rel": "self"
        }
      ],
      "snapshot_id": "",
      "created_at": "2012-05-03 11:19:39"
    }
  ]
}
```

58.1.2.1 volumes

id - *string* Identifier of the volume instance.

`display_name` - *string*
Display name for this volume.

display_description - <i>string</i>	Descriptive information for this volume.
-------------------------------------	--

size - *string*
Volume size in GB.

`volume_type` - *string*
Identifier of the volume type used. *(Not used in the current version).

metadata - *string*
Additional metadata info.

availability_zone - <i>string</i>	Identifier of the availability zone into which this volume was created.
-----------------------------------	---

attachments - *list*
List of attachments this volume is associated with.

links - array
Hypermedia for this resource.

snapshot_id - <i>string</i>	Identifier of the snapshot associated with this volume if exists.
-----------------------------	---

created_at - *string*
Volume creation timestamp.

58.2 Response Codes

Success *HTTP/1.1 200 OK*

Failure

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

58.3 Examples

Successfully list existing volumes

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "volumes" : [
    {
      "display_name": "vol-test-003",
      "attachments": [],
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/volumes/hbs2012May03_00xRg0Jz7/",
          "rel": "self"
        }
      ],
      "availability_zone": "test_zone",
      "created_at": "2012-05-03 11:35:44",
      "volume_type": "",
      "display_description": "Another test volume.",
      "snapshot_id": "",
      "metadata": {},
      "id": "hbs2012May03_00xRg0Jz7",
      "size": "30GB"
    },
    {
      "display_name": "vol-test-001",
      "attachments": [],
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/volumes/hbs2012Apr20_NrznxEeq9/",
          "rel": "self"
        }
      ],
      "availability_zone": "TEST001",
      "created_at": "2012-04-20 16:48:15",
      "volume_type": "",
      "display_description": "Test volume 001.",
      "snapshot_id": "",
      "metadata": {},
      "id": "hbs2012Apr20_NrznxEeq9",
      "size": "10GB"
    }
  ]
}
```

Failure while trying to make an unauthorized request

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

GET http(s)://{api_server}/accounts/fake/flexcloud/volumes

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
```

```
    "message": "Resource not found",  
    "code": 404,  
    "details": "",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  }  
}
```

58.4 Alternative URI /volumes

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /volumes

59 List Volumes Detail

This operation returns a list of all existing volumes with detailed information.

60 GET /accounts/{accountId}/flexcloud/volumes/detail

This operation returns a list of all existing volumes with detailed information.

60.1 Result

60.1.1 Parameters

accountId - *string*
The selected account Id.

60.1.2 JSON

```
{
  "volumes" : [
    {
      "id": "{volume_id}",
      "display_name": "{display_volume_name}",
      "display_description": "{display_volume_description}",
      "size" : "{volume_size_quantity}",
      "volume_type" : "{volume_type_id}",
      "metadata" : {},
      "availability_zone" : "{availability_zone_id}",
      "attachments": [],
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/volumes/{volume_id}/",
          "rel": "self"
        }
      ],
      "snapshot_id": "",
      "created_at": "2012-05-03 11:35:44"
    },
    {
      "id": "{volume_id}",
      "display_name": "{display_volume_name}",
      "display_description": "{display_volume_description}",
      "size" : "{volume_size_quantity}",
      "volume_type" : "{volume_type_id}",
      "metadata" : {},
      "availability_zone" : "{availability_zone_id}",
      "attachments": [],
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/volumes/{volume_id}/",
          "rel": "self"
        }
      ],
      "snapshot_id": "",
      "created_at": "2012-05-03 11:19:39"
    }
  ]
}
```

60.1.2.1 volumes

id - *string* Identifier of the volume instance.

`display_name` - *string*
Display name for this volume.

display_description - <i>string</i>	Descriptive information for this volume.
-------------------------------------	--

size - *string*
Volume size in GB.

<code>volume_type</code> - <i>string</i>	Identifier of the volume type used. *(Not used in the current version).
--	---

metadata - *string*
Additional metadata info.

availability_zone - <i>string</i>	Identifier of the availability zone into which this volume was created.
-----------------------------------	---

attachments - *list*
List of attachments this volume is associated with.

links - array
Hypermedia for this resource.

snapshot_id - <i>string</i>	Identifier of the snapshot associated with this volume if exists.
-----------------------------	---

created_at - *string*
Volume creation timestamp.

60.2 Response Codes

Success *HTTP/1.1 200 OK*

Failure

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

60.3 Examples

Successfully list existing volumes with detailed information

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes/detail

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "volumes" : [
    {
      "display_name": "vol-test-003",
      "attachments": [],
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/volumes/hbs2012May03_00xRg0Jz7/",
          "rel": "self"
        }
      ],
      "availability_zone": "test_zone",
      "created_at": "2012-05-03 11:35:44",
      "volume_type": "",
      "display_description": "Another test volume.",
      "snapshot_id": "",
      "metadata": {},
      "id": "hbs2012May03_00xRg0Jz7",
      "size": "30GB"
    },
    {
      "display_name": "vol-test-001",
      "attachments": [],
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/volumes/hbs2012Apr20_NrznxEeq9/",
          "rel": "self"
        }
      ],
      "availability_zone": "TEST001",
      "created_at": "2012-04-20 16:48:15",
      "volume_type": "",
      "display_description": "Test volume 001.",
      "snapshot_id": "",
      "metadata": {},
      "id": "hbs2012Apr20_NrznxEeq9",
      "size": "10GB"
    }
  ]
}
```

Failure while trying to make an unauthorized request

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes/detail

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

GET http(s)://{api_server}/accounts/fake/flexcloud/volumes/detail

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
  }
}
```

```
    "code": 404,  
    "details": "",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  }  
}
```

60.4 Alternative URI /volumes/detail

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /volumes/detail
```

61 ListServerIPs

This operation will list all flexible IPs assigned to a specific [Server](#).

62 GET /accounts/{accountId}/flexcloud/servers/{id}/ips

62.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the server.

62.2 Result

62.2.1 JSON

```
{
  "addresses" : {
    "public" : [
      {
        "version" : 4,
        "addr" : "{ip_address}"
      }
    ],
    "private" : [
      {
        "version" : 4,
        "addr" : "{ip_address}"
      }
    ]
  },
  "links" : [
    {
      "href" : "http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/ips",
      "rel": "self"
    }
  ]
}
```

addr - *string*

The address of the allocated flexible IP.

links - *array*

[Hypermedia](#) for this resource.

62.3 Response Codes

Success

HTTP/1.1 200 OK

Failure

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied incorrect credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - Resource not found.

62.4 Examples

Successfully list all flexible IPs assigned to the specified server

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/ips

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "addresses" : {
    "public" : [
      {
        "version" : 4,
        "addr" : "{ip_address}"
      }
    ],
    "private" : [
      {
        "version" : 4,
        "addr" : "{ip_address}"
      }
    ]
  },
  "links" : [
    {
      "href" : "http://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/ips",
      "rel": "self"
    }
  ]
}
```

Unauthorized access

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/ips

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to list flexible IPs for a non-existent server

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{fake_server_id}/ips

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to pass invalid account number

GET http(s)://{api_server}/accounts/fake/flexcloud/servers/test_server_0013/ips

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

62.5 Alternative URI /servers/{id}/ips

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /servers/{id}/ips

63 ListVolumeAttachmentsForServer

This operation will list all of the volume attachments for a specific [Server](#).

64 GET /accounts/{accountId}/flexcloud/servers/{id}/os-volume_attachments

64.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the server.

64.2 Result

64.2.1 JSON

```
{
  "volumeAttachments": [
    {
      "device": "{device_path}",
      "serverId": {server_id},
      "id": {volume_attachment_id},
      "volumeId": {volume_id}
    },
    {
      "device": "{device_path}",
      "serverId": {server_id},
      "id": {volume_attachment_id},
      "volumeId": {volume_id}
    }
  ]
}
```

64.2.1.1 volumeAttachments

device - *string*

Device used for this volume attachment.

serverId - *string*

Unique server identifier.

id - *string*

Unique volume attachment identifier.

volumeId - *string*

Unique volume identifier.

64.3 Response Codes

Success

HTTP/1.1 200 OK

Failure

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied incorrect credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found

64.4 Examples

Successfully list volume attachments

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/os-volume_attachments

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "volumeAttachments": [
    {
      "device": "/dev/test",
      "serverId": 6,
      "id": 1,
      "volumeId": 41
    },
    {
      "device": "/dev/test1",
      "serverId": 6,
      "id": 2,
      "volumeId": 23
    }
  ]
}
```

Failure while trying to list volume attachments for a non-existent server

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{fake_server_id}/os-volume_attachments

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Unauthorized request

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/os-volume_attachments

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

GET http(s)://{api_server}/accounts/fake/flexcloud/servers/{id}/os-volume_attachments

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

64.5 Alternative URI /servers/{id}/os-volume_attachments

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /servers/{id}/os-volume_attachments

65 ListVolumeDetailsForServerVolumeAttachment

This operation returns volume details for the specific server's volume attachment.

66 GET

/accounts/{accountId}/flexcloud/servers/{server_id}/os-volume_attachments/{volume_id}

66.1 Parameters

accountId - *string*

The selected account Id.

server_id

The unique identifier of the server.

volume_id

The unique volume identifier.

66.2 Result

66.2.1 JSON

```
{
  "volume": {
    "id": "{volume_id}",
    "display_name": "{display_volume_name}",
    "display_description": "{display_volume_description}",
    "size": {size_quantity},
    "volume_type": "{volume_type_id}",
    "metadata": {},
    "availability_zone": "{availability_zone_id}",
    "attachments": [],
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/volumes/{volume_id}/",
        "rel": "self"
      }
    ],
    "snapshot_id": "",
    "created_at": "2012-05-03 11:35:44"
  }
}
```

66.2.1.1 volume

id - *string*

Identifier of the volume instance.

display_name - *string*

Display name for this volume.

display_description - *string*

Descriptive information for this volume.

size - *int*

Volume size.

volume_type - *string*

Identifier of the volume type used. *(Not used in the current version).

metadata - *string*

Additional metadata info.

availability_zone - *string*

Identifier of the availability zone into which this volume was created.

attachments - *list*

List of attachments this volume is associated with.

links - *array*

[Hypermedia](#) for this resource.

snapshot_id - *string*

Identifier of the snapshot associated with this volume if exists.

created_at - *string*

Volume creation timestamp.

66.3 Response Codes

Success

HTTP/1.1 200 OK

Failure

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied incorrect credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found - The resource does not exist.

66.4 Examples

Successfully get volume details for a server volume attachment

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test-server-0013/os-volume_attachments/hbs2012May03_00xRg0Jz7

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "volume": {
    "display_name": "vol-test-003",
    "attachments": [],
    "links": [
      {
        "href": "http://{api_server}/account/{accountId}/flexcloud/volumes/hbs2012May03_00xRg0Jz7/",
        "rel": "self"
      }
    ],
    "availability_zone": "test_zone",
    "created_at": "2012-05-03 11:35:44",
    "volume_type": "",
    "display_description": "Another test volume.",
    "snapshot_id": "",
    "metadata": {},
    "id": "hbs2012May03_00xRg0Jz7",
    "size": "30GB"
  }
}
```

Failure while trying to get volume details for a volume that does not exist

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test-server-0013/os-volume_attachments/fake_volume_id

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to get volume details for a server that does not exist

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/fake_server_id/os-volume_attachments/hbs2012May03_00xRg0Jz7

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Unauthorized request

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test-server-0013/os-volume_attachments/hbs2012May03_00xRg0Jz7

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

GET http(s)://{api_server}/accounts/fake/flexcloud/servers/{id}/os-volume_attachments

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

66.5 Alternative URI /servers/{server_id}/os-volume_attachments/{volume_id}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /servers/{server_id}/os-volume_attachments/{volume_id}

67 Server

This article describes operations for getting details of servers, along with updating and deleting servers in your account. Other types of operations on a server are: [ServerCreate](#), [ServerActions](#), etc.

68 GET /accounts/{accountId}/flexcloud/servers/{id}

This operation will return details of a single server.

68.1 Parameters

accountId - *string*
The selected account Id.

id - *string*
Id of the server to get.

68.2 Result

68.2.1 JSON

```
{
  "server": {
    "status": "ACTIVE",
    "updated": null,
    "hostId": "{host_id}",
    "addresses": {
      "public": [
        {
          "version": 4,
          "addr": "{ip_address}"
        }
      ],
      "private": [
        {
          "version": 4,
          "addr": "{ip_address}"
        }
      ]
    },
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/",
        "rel": "self"
      }
    ],
    "image": {
      "name": "{display_image_name}",
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/images/{image_id}/",
          "rel": "self"
        }
      ]
    },
    "id": "{image_id}"
  },
  "userId": "{user_account_id}",
  "flavor": {
    "name": "1024MB Server3",
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/flavors/{flavor_id}/",
        "rel": "self"
      }
    ]
  },
  "id": 3
},
"securityGroup": {
  "id": "{security_group_id}",
  "links": [
    {
      "href": "http://{server_name}/accounts/{accountId}/flexcloud/os-security-groups/{security_group_id}/",
      "rel": "self"
    }
  ]
}
},
"id": "{server_id}",
"zone": "{zone_textkey}",
"name": "{display_server_name}",
"adminPass": null,
"created": "2011-12-05T12:51:28",
"tenantId": null,
"accessIPv4": "{ip_address}",
"accessIPv6": null,
"progress": 100,
"metadata": {
}
```

68.2.1.1 server

id - *string*
Unique identifier for this server.

links - *list*
[Hypermedia](#) for this resource.

status - *string*
Current state of the server. Values: **BUILD**, **ACTIVE**, **PROCESSING**, **SUSPENDED**, **DELETED**, **UNKNOWN**

hostId - *string*
Id of the physical host this virtual machine is running on.

userId - *string*
Unique identifier for the owner of this server.

name - *string*
Display name for this server.

adminPass - *string*
always null.

created - *string*
The date and time this server was created. ISO 8601 format, YYYY-MM-DDTHH:MM:SS.

accessIPv4 - *string*
The default included public IPv4 address.

progress - *number*
The progress of the current this server while in the BUILD status. The value is in the range of 0 - 100, but currently will only even be 0, 50, 100.

metadata - *object*
Unused always an empty object.

tenantId
Unused always always null.

accessIPv6
Unused always null.

updated
Unused always null.

zone
Zone text key

68.2.1.2 addresses

addresses.public.version - *number*
IP version of this address. Values: 4

addresses.public.addr - *string*
Public IP address of this server

addresses.private.version - *number*
IP version of this address. Values: 4

addresses.private.addr - *string*
Private IP address of this server

68.2.1.3 image

image.name - *string*
The display name of the image this server is based on.

image.links - *list*
[Hypermedia](#) for the image.

image.id - *string*
Unique identifier for image this server is based on.

68.2.1.4 flavor

flavor.name - *string*
The display name of the flavor this server is based on.

flavor.links - *list*
[Hypermedia](#) for the flavor.

flavor.id - *string*
Unique identifier for flavor this server is based on.

68.2.1.5 securityGroup

securityGroup.id - *string*
the id of the security group that is assigned to this server

securityGroup.links - *list*
[Hypermedia](#) for the securityGroup.

68.3 Response Codes

Success
OK (200)

Failure
Unauthorized (401) : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
ItemNotFound (404) : The resource requested is not found.

68.4 Examples

Successfully get server details

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013

- Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

- Response: OK (200):

```
{
  "server": {
    {
      "status": "ACTIVE",
      "updated": null,
      "hostId": "{host_id}",
      "addresses": {
        {
          "public": [
            {
              "version": 4,
              "addr": "{ip_address}"
            }
          ],
          "private": [
            {
              "version": 4,
              "addr": "{ip_address}"
            }
          ]
        }
      },
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/",
          "rel": "self"
        }
      ],
      "image": {
        "name": "CentOS 5 Plesk",
        "links": [
          {
            "href": "http://{api_server}/accounts/{accountId}/flexcloud/images/test_public_image/",
            "rel": "self"
          }
        ],
        "id": "test_public_image"
      },
      "securityGroup": {
        "id": "group2012Nov02_jD6NX8BsK",
        "links": [
          {
            "href": "http://{server_name}/accounts/{accountId}/flexcloud/os-security-groups/group2012Nov02_jD6NX8BsK/",
            "rel": "self"
          }
        ]
      },
      "userId": "{user_account_id}",
      "flavor": { "name": "", "links": [], "id": "" },
      "id": "test_server_0013",
      "zone": "AUS001",
      "name": "test_server_created",
      "adminPass": null,
      "created": "2011-11-25T12:16:47",
      "tenantId": null,
      "accessIPv4": "{ip_address}",
      "accessIPv6": null,
      "progress": 100,
      "metadata": {}
    }
  }
}
```

- When a server is in pending status (has not completed the provisioning process), the creation timestamp and hostId that are returned will be empty strings.

Failure while trying to get server details without proper authorization - Response: Unauthorized (401):

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to get server details for a non-existent server id or passing invalid account number - Response: ItemNotFound (404):

```
{
  "itemNotFound": {
    {
      "message": "Resource not found",
      "code": 404,
      "details": "",
      "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
    }
  }
}
```


69 PUT /accounts/{accountId}/flexcloud/servers/{id}

This operation will update details of a single server.

69.1 Parameters

accountId - *string*

The selected account Id.

id - *string*

Id of the server to update.

69.1.1 server attributes

name - *string*

New display server name to update

69.2 Request

69.2.1 JSON

```
{
  "server" :
  {
    "name" : "{new_display_name}"
  }
}
```

69.3 Response

69.3.1 JSON

```
{
  "server":{
    "status":"ACTIVE",
    "updated":null,
    "hostId":"{host_id}",
    "addresses":{
      "public":[
        {
          "version":4,
          "addr":"{ip_address}"
        }
      ],
      "private":[
        {
          "version":4,
          "addr":"{ip_address}"
        }
      ]
    },
    "links":[
      {
        "href":"http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/",
        "rel":"self"
      }
    ],
    "image":{
      "name":"{display_image_name}",
      "links":[
        {
          "href":"http://{api_server}/accounts/{accountId}/flexcloud/images/{image_id}/",
          "rel":"self"
        }
      ],
      "id":"{image_id}"
    },
    "securityGroup": {
      "id":"{security_group_id}",
      "links":[
        {
          "href":"http://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/{security_group_id}/",
          "rel":"self"
        }
      ]
    },
    "userId":"{user_account_id}",
    "flavor":{
      "name":"1024MB Server3",
      "links":[
        {
          "href":"http://{api_server}/accounts/{accountId}/flexcloud/flavors/{flavor_id}/",
          "rel":"self"
        }
      ],
      "id":3
    },
    "id":"{server_id}",
    "zone": "AUS001",
    "name":"{new_display_name}",
    "adminPass":null,
    "created":"2011-12-05T12:51:28",
    "tenantId":null,
    "accessIPv4":"{ip_address}",
    "accessIPv6":null,
    "progress":100,
    "metadata":{
  }
```

}
}

69.4 Response Codes

Success

HTTP/1.1 200 OK

Failure

HTTP/1.1 400 Bad Request : Display name in use. / Display name invalid.

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found : The resource requested is not found.

HTTP/1.1 405 Method Not Allowed : Unsupported server attribute.

70 DELETE /accounts/{accountId}/flexcloud/servers/{id}

This operation will delete a single server.

70.1 Parameters

accountId - *string*
The selected account Id.

id - *string*
Id of the server to delete.

70.2 Response Codes

Success
HTTP/1.1 202 Accepted or *HTTP/1.1 204 No Content*

Failure
HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found : The resource requested is not found.

70.3 Examples

Successfully delete a specific server

```
DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/123
```

Response Code:

HTTP/1.1 202 Accepted

Failure while trying to update a non-existent server

```
DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{fake_server_id}
```

Response Code:

HTTP/1.1 404 Not Found

Failure while trying to pass invalid account number

```
DELETE http(s)://{api_server}/accounts/fake/flexcloud/servers/123
```

Response Code:

HTTP/1.1 404 Not Found

70.4 Alternative URI /servers/{id}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /servers/{id}
```

71 ServerActionAddFlexibleIP

This operation will assign an already allocated flexible IP to the specified `server`.

72 POST /accounts/{accountId}/flexcloud/servers/{id}/action

72.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the server.

72.2 Request

72.2.1 JSON

```
{
  "addFloatingIp" :
  {
    "address" : {ip_address}
  }
}
```

address - *string*

The address of the allocated floating IP.

72.3 Response Codes

Success

HTTP/1.1 202 Accepted : The request is accepted for processing.

Failure

HTTP/1.1 400 Bad Request : Check your parameter (no address in JSON). / Server Not Found.

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 403 Forbidden : The server understood the request, but is refusing to fulfill it. The IP address specified is already assigned to another resource instance.

HTTP/1.1 404 Not Found : The resource requested is not found.

HTTP/1.1 409 Conflict : Server not provisioned.

HTTP/1.1 502 Bad Gateway : Error while assigning IP address ... / Invalid data received when assigning IP address ...

72.4 Alternative URI /servers/{id}/action

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /servers/{id}/action

73 ServerActionReboot

The reboot action allows for either a soft or hard reboot of a [Server](#). With a soft reboot (SOFT), the operating system is signaled to restart, which allows for a graceful shutdown of all processes. A hard reboot (HARD) is the equivalent of power cycling the server.

74 POST /accounts/{accountId}/flexcloud/servers/{id}/action

74.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the server to reboot.

74.1.1 JSON

```
{
  "reboot":
  {
    "type": "HARD"
  }
}
```

type - *string*

Type of reboot to perform. Values: **HARD**, **SOFT**.

74.2 Response Codes

Success

HTTP/1.1 202 Accepted : The request is accepted for processing.

Failure

HTTP/1.1 400 Bad Request : Check your parameter. / Other error

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found : The resource requested is not found.

HTTP/1.1 405 Method Not Allowed : The requested action is not supported.

HTTP/1.1 409 Conflict : Already rebooting.

74.3 Alternative URI /servers/{id}/action

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /servers/{id}/action

75 ServerActionRemoveFlexibleIP

This operation will remove an already assigned flexible IP from a [Server](#).

76 POST /accounts/{accountId}/flexcloud/servers/{id}/action

76.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the server.

76.2 Request

76.2.1 JSON

```
{
  "removeFloatingIp" :
  {
    "address" : {ip_address}
  }
}
```

address - *string*

The address of the allocated flexible IP.

76.3 Response Codes

Success

HTTP/1.1 202 Accepted : The request is accepted for processing.

Failure

HTTP/1.1 400 Bad Request : Check your parameter (no address in JSON). / Server Not Found.

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found : The resource requested is not found.

HTTP/1.1 409 Conflict : Server not provisioned. / Invalid IP address

HTTP/1.1 502 Bad Gateway : Error while removing IP address ...

76.4 Alternative URI /servers/{id}/action

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /servers/{id}/action

77 ServerActionResize

The resize action changes the **Flavor** of a **Server**.

78 POST /accounts/{accountId}/flexcloud/servers/{id}/action

78.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the server to be resized.

78.2 Request

78.2.1 JSON

```
{
  "resize" :
  {
    "flavor":
    {
      "id": "{flavor_id}"
    }
  }
}
```

id - *string*

The id of the flavor to use.

78.3 Response Codes

Success

HTTP/1.1 202 Accepted : The request is accepted for processing.

Failure

HTTP/1.1 400 Bad Request : Server already uses this flavor.

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 403 Forbidden : This server cannot be resized.

HTTP/1.1 404 Not Found : The resource requested is not found.

HTTP/1.1 405 Method Not Allowed : The requested action is not supported.

HTTP/1.1 500 Internal Server Error : Unknown error was raised while processing your request.

HTTP/1.1 503 Service Unavailable : Selected profile is unavailable.

78.4 Alternative URI /servers/{id}/action

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /servers/{id}/action

79 ServerActions

The following actions can be performed on a [Server](#).

79.1 Reboot

This operation allows for either a soft or hard reboot of a server. With a soft reboot (SOFT), the operating system is signaled to restart, which allows for a graceful shutdown of all processes. A hard reboot (HARD) is the equivalent of power cycling the server.

[ServerActionReboot](#)

79.2 Stop

This operation stops a server.

[ServerActionStop](#)

79.3 Start

This operation starts a stopped server.

[ServerActionStart](#)

79.4 Resize

This operation changes the [Flavor](#) of a server.

[ServerActionResize](#)

79.5 Add Flexible IP

This operation adds a new Flexible IP to a server.

[ServerActionAddFlexibleIP](#)

79.6 Remove Floating IP

This operation removes an existing Flexible IP from a server.

[ServerActionRemoveFlexibleIP](#)

79.7 Upgrade Plesk

This operation will upgrade the Plesk license on a server.

[ServerActionUpgradePlesk](#)

80 ServerActionStart

The start action is used for starting a [Server](#). Starting a stopped server will change its status from STOPPED to ACTIVE.

81 POST `/accounts/{accountId}/flexcloud/servers/{id}/action`

81.1 Parameters

`accountId` - *string*
The selected account Id.

`id`
The unique identifier of the server to reboot.

81.1.1 JSON

```
{
  "os-start": null
}
```

81.2 Response Codes

Success
HTTP/1.1 202 Accepted : The request is accepted for processing.

Failure
HTTP/1.1 400 Bad Request : An error occurred.
HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found : The resource requested is not found.
HTTP/1.1 405 Method Not Allowed : The requested action is not supported.
HTTP/1.1 409 Conflict : Other status change in progress.

81.3 Alternative URI `/servers/{id}/action`

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST `/servers/{id}/action`

82 ServerActionStop

The stop action is used for stopping a [Server](#). Stopping a server changes its status from ACTIVE to STOPPED.

83 POST /accounts/{accountId}/flexcloud/servers/{id}/action

83.1 Parameters

accountId - *string*
The selected account Id.

id
The unique identifier of the server to reboot.

83.1.1 JSON

```
{  
  "os-stop": null  
}
```

83.2 Response Codes

Success
HTTP/1.1 202 Accepted : The request is accepted for processing.

Failure
HTTP/1.1 400 Bad Request : An error occurred.
HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found : The resource requested is not found.
HTTP/1.1 405 Method Not Allowed : The requested action is not supported.
HTTP/1.1 409 Conflict : Other status change in progress.

83.3 Alternative URI /servers/{id}/action

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /servers/{id}/action

84 ServerActionUpgradePlesk

This operation will upgrade the Plesk license for the specified [Server](#).

85 POST /accounts/{accountId}/flexcloud/servers/{id}/action

85.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the server.

85.2 Request

85.2.1 JSON

```
{
  "upgradePlesk" : {
    "username": "{plesk_server_username}",
    "password": "{plesk_server_password}",
    "port_number": "{plesk_server_port}",
    "addon_textkey": "{plesk_addon_textkey}"
  }
}
```

85.2.1.1 upgradePlesk

username - *string*

The username used for authentication for managing Plesk license.

password - *string*

The password used for authentication for managing Plesk license.

port_number - *string*

The port used for managing Plesk license.

addon_textkey - *string*

Plesk addon textkey to upgrade to.

85.3 Response Codes

Success

HTTP/1.1 202 Accepted : The request is accepted for processing.

Failure

HTTP/1.1 400 Bad Request : Check your parameter / Server not found

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 403 Forbidden : The server understood the request, but is refusing to fulfill it.

HTTP/1.1 404 Not Found : The resource does not exist.

HTTP/1.1 409 Conflict : The request could not be completed due to a conflict with the current state of the resource. / Wrong Addon TextKey

85.4 Examples

Successfully upgrade Plesk server license

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/action

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "upgradePlesk" : {
    "username": "plesk-username",
    "password": "plesk-password",
    "port_number": "12",
    "addon_textkey": "plesk.9.linux.powerpack"
  }
}
```

Response Code:

HTTP/1.1 202 Accepted

Failure while trying to upgrade Plesk while server is processing another task

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/action

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "upgradePlesk" : {
```

```

    "username": "plesk-username",
    "password": "plesk-password",
    "port_number": "12",
    "addon_textkey": "plesk.9.linux.powerpack"
  }
}

```

Response Code:

HTTP/1.1 409 Conflict

Response Body:

```

{
  "conflict": {
    "message": "PleskStillUpgrading",
    "code": 409,
    "details": "Some task is in processing for this instance. please wait for a while",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efel6e83bf"
  }
}

```

Unauthorized access

POST http(s)://{api_server}/accounts/{accountid}/flexcloud/servers/test_server_0013/action

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string

```

Request Body:

```

{
  "upgradePlesk" : {
    "username": "plesk-username",
    "password": "plesk-password",
    "port_number": "12",
    "addon_textkey": "plesk.9.linux.powerpack"
  }
}

```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```

401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.

```

Failure while trying to upgrade Plesk with an empty parameter body

POST http(s)://{api_server}/accounts/{accountid}/flexcloud/servers/test_server_0013/action

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Request Body:

```

{
  empty
}

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```

{
  "badRequest": {
    "message": "Bad Request",
    "code": 400,
    "details": "Multiple actions per request are not allowed",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efel6e83bf"
  }
}

```

Failure while trying to upgrade Plesk with incorrect Plesk server credentials

POST http(s)://{api_server}/accounts/{accountid}/flexcloud/servers/test_server_0013/action

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Request Body:

```
{
  "upgradePlesk" : {
    "username": "fake-plesk-username",
    "password": "fake-plesk-password",
    "port_number": "12",
    "addon_textkey": "plesk.9.linux.powerpack"
  }
}
```

Response Code:

HTTP/1.1 403 Forbidden

Response Body:

```
{
  "forbidden": {
    "message": "WrongPleskAuthentication",
    "code": 403,
    "details": "Could not login to Plesk vm, check your VM login information",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efel6e83bf"
  }
}
```

Failure while trying to upgrade Plesk for a non-existent port server

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/action

Request Headers:

Content-Type:application/json
 Charset=UTF-8
 Authorization:Base64-encoded username & password string

Request Body:

```
{
  "upgradePlesk" : {
    "username": "plesk-username",
    "password": "plesk-password",
    "port_number": "1222",
    "addon_textkey": "plesk.9.linux.powerpack"
  }
}
```

Response Code:

HTTP/1.1 403 Forbidden

Response Body:

```
{
  "forbidden": {
    "message": "WrongPleskAuthentication",
    "code": 403,
    "details": "Could not login to Plesk vm, check your VM login information",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efel6e83bf"
  }
}
```

Failure while trying to upgrade Plesk for a non-existent Plesk addon textkey

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/action

Request Headers:

Content-Type:application/json
 Charset=UTF-8
 Authorization:Base64-encoded username & password string

Request Body:

```
{
  "upgradePlesk" : {
    "username": "plesk-username",
    "password": "plesk-password",
    "port_number": "12",
    "addon_textkey": "fake.plesk.addon.textkey"
  }
}
```

Response Code:

HTTP/1.1 409 Conflict

Response Body:

```
{
  "conflict": {
    "message": "WrongAddonTextkey",
    "code": 409,
    "details": "Please specify proper addon textkey",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efel6e83bf"
  }
}
```

Failure while trying to upgrade Plesk for a non-existent Plesk server

POST http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/fake_server_name/action

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "upgradePlesk" : {
    "username": "plesk-username",
    "password": "plesk-password",
    "port_number": "12",
    "addon_textkey": "plesk.9.linux.powerpack"
  }
}
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efel6e83bf"
  }
}
```

Failure while trying to upgrade Plesk for a non-existent Plesk server with invalid account number

POST http(s)://{api_server}/accounts/fake_account/flexcloud/servers/test_server_0013/action

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "upgradePlesk" : {
    "username": "plesk-username",
    "password": "plesk-password",
    "port_number": "12",
    "addon_textkey": "plesk.9.linux.powerpack"
  }
}
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efel6e83bf"
  }
}
```

85.5 Alternative URI /servers/{id}/action

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the *authorization header*.

POST /servers/{id}/action

86 ServerCreate

This operation will create a new server. Server creation is asynchronous, the progress can be checked with the URL in the response Location header or the self link in the body.

87 POST /accounts/{accountId}/flexcloud/servers

This operation will create a new server. Server creation is asynchronous, the progress can be checked with the URL in the response Location header or the self link in the body.

87.1 Request

87.1.1 Request Parameters

accountId - *string*
The selected account Id.

87.1.2 JSON

```
{
  "server": {
    "name": "{display_server_name}",
    "imageRef": "http://{server_name}/accounts/{accountId}/flexcloud/images/{image_id}/",
    "flavorRef": "http://{server_name}/accounts/{accountId}/flexcloud/flavors/{flavor_id}/",
    "securityGroupRef": "http://{server_name}/accounts/{accountId}/flexcloud/os-security-groups/{security_group_id}/",
    "adminPass": "{initial_password}",
    "zone": "{zone_textkey}"
  }
}
```

name - *string*
Display name for this server

imageRef - *string*
Absolute URL of the [Image](#) to use

flavorRef - *string*
Absolute URL of the [Flavor](#) to use

securityGroupRef - *string*
Absolute URL of the [SecurityGroup](#) to use

adminPass - *string*
Initial admin password. If not specified, the automatically generated password would be returned.

zone
Zone textkey

87.2 Result

87.2.1 JSON

```
{
  "server": {
    "status": "{state_status}",
    "updated": null,
    "hostId": "",
    "addresses": {
      "public": [
        {
          "version": 4,
          "addr": "{ip_address}"
        }
      ],
      "private": [
        {
          "version": 4,
          "addr": "{ip_address}"
        }
      ]
    },
    "links": [
      {
        "href": "http://{server_name}/accounts/{accountId}/flexcloud/servers/{server_id}/",
        "rel": "self"
      }
    ]
  },
  "image": {
    "name": "{display_image_name}",
    "links": [
      {
        "href": "http://{server_name}/accounts/{accountId}/flexcloud/images/{image_id}/",
        "rel": "self"
      }
    ],
    "id": "{image_id}"
  },
  "securityGroup": {
    "id": "{security_group_id}",
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/{security_group_id}/",
        "rel": "self"
      }
    ]
  },
  "userId": "{user_account_id}",
  "flavor": {
    "name": "{display_flavor_name}",
    "links": [
      {
        "href": "{server_name}/accounts/{accountId}/flexcloud/flavors/{flavor_id}/",

```

```

        "rel": "self"
    }
},
    "id": {flavor_id}
},
    "id": "{server_id}",
    "zone": "{zone_textkey}",
    "name": "{display_server_name}",
    "adminPass": "{initial_password}",
    "created": "",
    "tenantId": null,
    "accessIPv4": "{ip_address}",
    "accessIPv6": null,
    "progress": 0,
    "metadata": {
    }
}
}
}

```

- When a server is in pending status (has not completed the provisioning process), the creation timestamp and hostId that are returned will be empty strings.

87.2.1.1 server

id - *string*

Unique identifier for this server.

links - *list*

[Hypermedia](#) for this resource.

status - *string*

Current state of the server. Values: **BUILD**, **ACTIVE**, **PROCESSING**, **SUSPENDED**, **DELETED**, **UNKNOWN**

hostId - *string*

Id of the physical host this virtual machine is running on.

userId - *string*

Unique identifier for the owner of this server.

name - *string*

Display name for this server.

created - *string*

The date and time this server was created. ISO 8601 format, YYYY-MM-DDTHH:MM:SS.

accessIPv4 - *string*

The default included public IPv4 address.

progress - *number*

The progress of the current this server while in the BUILD status. The value is in the range of 0 - 100, but currently will only even be 0, 50, 100.

adminPass - *string*

The admin password. Not null only in the creating server response.

metadata - *object*

Unused always an empty object.

tenantId

Unused always always null.

accessIPv6

Unused always null.

updated

Unused always null.

zone

Zone text key

87.2.1.2 addresses

addresses.public.version - *number*

IP version of this address. Values: **4**

addresses.public.addr - *string*

Public IP address of this server

addresses.private.version - *number*

IP version of this address. Values: **4**

addresses.private.addr - *string*

Private IP address of this server

87.2.1.3 image

image.name - *string*

The display name of the image this server is based on.

image.links - *list*

[Hypermedia](#) for the image.

image.id - *string*
Unique identifier for image this server is based on.

87.2.1.4 flavor

flavor.name - *string*
The display name of the flavor this server is based on.

flavor.links - *list*
[Hypermedia](#) for the flavor.

flavor.id - *string*
Unique identifier for flavor this server is based on.

87.2.1.5 securityGroup

securityGroup.id - *string*
the name of the security group that is assigned to this server

securityGroup.links - *list*
[Hypermedia](#) for the securityGroup.

87.3 Response Codes

Success
HTTP/1.1 202 Accepted
Request is accepted.

Failure
HTTP/1.1 400 Bad Request
The resource used for creating server is not found.

Failure
HTTP/1.1 404 Bad Request
The resource does not exist (when account number is not valid)

87.4 Examples

Successfully create a new server

POST `http://{api_server}/accounts/{accountId}/flexcloud/servers`

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "server" :
  {
    "flavorRef" : "http://{api_server}/accounts/{accountId}/flexcloud/flavors/1",
    "securityGroupRef":"http://{server_name}/accounts/{accountId}/flexcloud/os-security-groups/{security_group_id}/",
    "name" : "test_server_create",
    "imageRef" : "http://{api_server}/accounts/{accountId}/flexcloud/images/test_public_image",
    "zone": "AUS001"
  }
}
```

Response Code:

HTTP/1.1 202 Accepted

Response Body:

```
{
  "server":
  {
    "status": "BUILD",
    "updated": null,
    "hostId": "",
    "addresses":
    {
      "public": [
        {
          "version": 4,
          "addr": "{ip_address}"
        }
      ],
      "private": [
        {
          "version": 4,
          "addr": "{ip_address}"
        }
      ]
    },
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/167/",
        "rel": "self"
      }
    ],
    "imageRef":
    {

```

```

    "name": "CentOS 5 Plesk",
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/images/test_public_image/",
        "rel": "self"
      }
    ],
    "id": "test_public_image"
  },
  "securityGroup": {
    "id": "group2012Nov02_jD6NX8BsK",
    "links": [
      {
        "href": "http://{server_name}/accounts/{accountId}/flexcloud/os-security-groups/group2012Nov02_jD6NX8BsK/",
        "rel": "self"
      }
    ]
  },
  "userId": "{user_account_id}",
  "flavorRef": {
    "name": "",
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/flavors/1/",
        "rel": "self"
      }
    ]
  },
  "id": "1"
},
{id": "167",
"zone": "AUS001",
"name": "test_server_create",
"adminPass": "{auto_generated_password}",
"created": "",
"tenantId": null,
"accessIPv4": "{ip_address}",
"accessIPv6": null,
"progress": 0,
"metadata": {}
}
}

```

- When a server is in pending status (has not completed the provisioning process), the creation timestamp and hostId that are returned will be empty strings.

Failure while trying to create a server with a bad request body

POST http://{api_server}/accounts/{accountId}/flexcloud/servers

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Request Body:

```

{
  "server" : {
    "flavorRef" : "http://{api_server}/accounts/{accountId}/flexcloud/flavors/{flavor_id}",
    "securityGroupRef" : "http://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/{security_group_id}",
    "name" : "{display_server_name}",
    "imageRef" : "http://{api_server}/accounts/{accountId}/flexcloud/images/{fake_image_id}",
    "zone": "AUS001"
  }
}

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```

{
  "computeFault": {
    "message": "Bad imageRef",
    "code": 400,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to pass invalid account number

POST http(s)://{api_server}/accounts/fake/flexcloud/servers

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```

{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
  }
}

```

```
    "details": "",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  }  
}
```

87.5 Alternative URI /servers

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /servers

88 ServerList

This operation returns a list of all [servers](#).

89 GET

/accounts/{accountId}/flexcloud/servers?name=serverName&status=serverStatus&image=serverImage

89.1 Parameters

accountId - *string*

The selected account Id.

name - *string*

Optional Server name to search for.

status - *string*

Server status to search for. Values: **BUILD**, **ACTIVE**, **SUSPENDED**, **DELETED**, **STOPPED**, **PROCESSING** without status filtering, return servers with **ACTIVE**, **PROCESSING** or **STOPPED**

image - *string*

Optional Absolute URL of the image to filter servers by. e.g. *http(s)://{api_server}/images/{image_id}/*

zone - *string*

Optional Zone textkey

region - *string*

Optional Region textkey

89.2 Result

89.2.1 JSON

```
{
  "servers": [
    {
      "id": "{server_id}",
      "zone": "{zone_textkey}",
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/",
          "rel": "self"
        }
      ]
    },
    {
      "id": "{server_id}",
      "zone": "{zone_textkey}",
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/",
          "rel": "self"
        }
      ]
    }
  ]
}
```

id - *string*

Unique identifier for this server.

zone

Zone text key

links - *array*

[Hypermedia](#) for this resource.

89.3 Response Codes

Success

HTTP/1.1 200 OK

Failure

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found : Resource does not exist

89.4 Examples

Successfully list servers

GET *http(s)://{api_server}/accounts/{accountId}/flexcloud/servers*

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "servers" : [
    {
      "id": "test_server_0001",
      "zone": "AUS001",
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0001/",
          "rel": "self"
        }
      ]
    },
    {
      "id": "test_server_0013",
      "zone": "zone",
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0013/",
          "rel": "self"
        }
      ]
    },
    {
      "id": "test_server_0015",
      "zone": "AUS001",
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/test_server_0015/",
          "rel": "self"
        }
      ]
    }
  ]
}
```

Failure while trying to make unauthorized access

GET http://{api_server}/accounts/{accountId}/flexcloud/servers

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

89.5 Alternative URI /servers

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /servers

90 ServerListDetails

This operation will list all **servers** including their details.

91 GET

/accounts/{accountId}/flexcloud/servers/detail?name=serverName&status=serverStatus

91.1 Parameters

accountId - *string*

The selected account Id.

name - *string*

Server name to search for.

status - *string*

Server status to search for. Values: **BUILD**, **ACTIVE**, **SUSPENDED**, **DELETED**, **STOPPED**, **PROCESSING**
without status filtering, return servers with **ACTIVE**, **PROCESSING** or **STOPPED**

image - *string*

Absolute URL of the image to filter servers by. e.g. `http://{api_server}/accounts/{accountId}/flexcloud/images/{image_id}/`

zone - *string*

Zone text key

region - *string*

optional, region text key

91.2 Result

91.2.1 JSON

```
{
  "servers": [
    {
      "status": "{state_status}",
      "updated": "",
      "hostId": "{host_id}",
      "addresses": {
        "public": [
          {
            "version": 4,
            "addr": "{ip_address}"
          }
        ],
        "private": [
          {
            "version": 4,
            "addr": "{ip_address}"
          }
        ]
      },
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/",
          "rel": "self"
        }
      ],
      "image": {
        "name": "{display_image_name}",
        "links": [
          {
            "href": "http://{api_server}/accounts/{accountId}/flexcloud/images/{image_id}/",
            "rel": "self"
          }
        ],
        "id": "{image_id}"
      },
      "userId": "{user_account_id}",
      "flavor": {
        "name": "{display_flavor_name}",
        "links": [
          {
            "href": "http://{api_server}/accounts/{accountId}/flexcloud/flavors/{flavor_id}/",
            "rel": "self"
          }
        ],
        "id": "{flavor_id}"
      },
      "securityGroup": {
        "id": "{security_group_id}",
        "links": [
          {
            "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/{security_group_id}/",
            "rel": "self"
          }
        ]
      },
      "id": "{server_id}",
      "zone": "{zone_textkey}",
      "name": "{display_server_name}",
      "created": "2011-12-05T12:51:28",
      "tenantId": "",
      "accessIPv4": "{ip_address}",
      "accessIPv6": "",
      "progress": 100,
      "metadata": {
      }
    },
    {
      "status": "{state_status}",
      "updated": "",
      "hostId": "{host_id}",
    }
  ]
}
```



```

"addresses":{
  "public":[
    {
      "version":4,
      "addr":{"ip_address}"
    }
  ],
  "private":[
    {
      "version":4,
      "addr":{"ip_address}"
    }
  ]
},
"links":[
  {
    "href":"http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/",
    "rel":"self"
  }
],
"image":{
  "name":{"display_image_name}",
  "links":[
    {
      "href":"http://{api_server}/accounts/{accountId}/flexcloud/images/{image_id}/",
      "rel":"self"
    }
  ]
},
"id":{"image_id}"
},
"userId":{"user_account_id}",
"flavor":{
  "name":{"display_flavor_name}",
  "links":[
    {
      "href":"http://{server_name}/accounts/{accountId}/flexcloud/flavors/{flavor_id}/",
      "rel":"self"
    }
  ]
},
"id":{"flavor_id}"
},
"securityGroup": {
  "id":{"security_group_id}",
  "links":[
    {
      "href":"http://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/{security_group_id}/",
      "rel":"self"
    }
  ]
},
"id":{"server_id}",
"zone": "{zone_textkey}",
"name":{"display_server_name}",
"created":"2011-11-17T10:14:58",
"tenantId":"","",
"accessIPv4":{"ip_address}",
"accessIPv6":"","",
"progress":100,
"metadata":{
}
}
]
}

```

91.2.1.1 server

id - *string*

Unique identifier for this server.

links - *list*

[Hypermedia](#) for this resource.

status - *string*

Current state of the server. Values: **BUILD**, **ACTIVE**, **SUSPENDED**, **DELETED**, **UNKNOWN**

hostId - *string*

Id of the physical host this virtual machine is running on.

userId - *string*

Unique identifier for the owner of this server.

name - *string*

Display name for this server.

created - *string*

The date and time this server was created. ISO 8601 format, YYYY-MM-DDTHH:MM:SS.

accessIPv4 - *string*

The default included public IPv4 address.

progress - *number*

The current progress of this server while in BUILD status. The value is in the range of 0 - 100, but currently will only be 0, 50 or 100.

metadata - *object*

Unused - always an empty object.

tenantId

Unused - always null.

accessIPv6

Unused - always null.

updated
Unused - always null.

zone
zone text key

91.2.1.2 addresses

addresses.public.version - *number*
IP version of this address. Values: 4

addresses.public.addr - *string*
Public IP address of this server

addresses.private.version - *number*
IP version of this address. Values: 4

addresses.private.addr - *string*
Private IP address of this server

91.2.1.3 image

image.name - *string*
The display name of the image this server is based on.

image.links - *list*
[Hypermedia](#) for the image.

image.id - *string*
Unique identifier for image this server is based on.

91.2.1.4 flavor

flavor.name - *string*
The display name of the flavor this server is based on.

flavor.links - *list*
[Hypermedia](#) for the flavor.

flavor.id - *string*
Unique identifier for flavor this server is based on.

91.2.1.5 securityGroup

securityGroup.id - *string*
the id of the securityGroup that is assigned to this server

securityGroup.links - *list*
[Hypermedia](#) for the securityGroup.

91.3 Response Codes

Success
HTTP/1.1 200 OK

Failure
HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

Failure
HTTP/1.1 404 Not Found : Resource does not exist

91.4 Examples

Successfully get server list with details

GET /accounts/{accountId}/flexcloud/servers/detail

- *Response: OK (200)*:

```
{
  "servers": [
    {
      "status": "ACTIVE",
      "updated": "",
      "hostId": "{host_id}",
      "addresses": {
        "public": [
          {
            "version": 4,
            "addr": "{ip_address}"
          }
        ],
        "private": [
          {
            "version": 4,
            "addr": "{ip_address}"
          }
        ]
      },
      "links": [
```

```

    {
      "href":"http://{server_name}/accounts/{accountId}/flexcloud/servers/test_server_0013/",
      "rel":"self"
    }
  ],
  "image":{
    "name":"Ubuntu 10.10 x64",
    "links":[
      {
        "href":"http://{server_name}/accounts/{accountId}/flexcloud/images/test_ubuntu_image/",
        "rel":"self"
      }
    ]
  },
  "id":"test_ubuntu_image"
},
"userId":"{user_account_id}",
"flavor":{
  "name":"1024MB Server3",
  "links":[
    {
      "href":"http://{server_name}/accounts/{accountId}/flexcloud/flavors/3/",
      "rel":"self"
    }
  ]
},
"id":3
},
"securityGroup":{
  "id":"group2012Nov02_jD6NX8BsK",
  "links":[
    {
      "href":"http://{server_name}/accounts/{accountId}/flexcloud/os-security-groups/group2012Nov02_jD6NX8BsK/",
      "rel":"self"
    }
  ]
},
"id":"test_server_0013",
"zone": "AUS001",
"name":"test_server_updated",
"created":"2011-12-05T12:51:28",
"tenantId":"",
"accessIPv4":"{ip_address}",
"accessIPv6":"",
"progress":100,
"metadata":{
}
},
{
  "status":"ACTIVE",
  "updated":"",
  "hostId":"{host_id}",
  "addresses":{
    "public":[
      {
        "version":4,
        "addr":"{ip_address}"
      }
    ],
    "private":[
      {
        "version":4,
        "addr":"{ip_address}"
      }
    ]
  }
},
"links":[
  {
    "href":"http://{server_name}/accounts/{accountId}/flexcloud/servers/test_server_0015/",
    "rel":"self"
  }
],
"image":{
  "name":"Windows 2008 R2 Standard",
  "links":[
    {
      "href":"http://{server_name}/accounts/{accountId}/flexcloud/images/test_windows_image/",
      "rel":"self"
    }
  ]
},
"id":"test_windows_image"
},
"userId":"{user_account_id}",
"flavor":{
  "name":"1024MB Server3",
  "links":[
    {
      "href":"http://{server_name}/accounts/{accountId}/flexcloud/flavors/3/",
      "rel":"self"
    }
  ]
},
"id":3
},
"securityGroup":{
  "id":"group2012Nov02_jD6NX8BsK",
  "links":[
    {
      "href":"http://{server_name}/accounts/{accountId}/flexcloud/os-security-groups/group2012Nov02_jD6NX8BsK/",
      "rel":"self"
    }
  ]
},
"id":"test_server_0015",
"zone": "AUS001",
"name":"test_server_created",
"created":"2011-11-17T10:14:58",
"tenantId":"",
"accessIPv4":"{ip_address}",
"accessIPv6":"",

```

```

        "progress":100,
        "metadata":{
        }
    }
}
]
}

```

Failure while trying to make an unauthorized call - Response: Unauthorized (401):

```

401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.

```

Failure while trying to pass invalid account number

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/detail

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```

{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

91.5 Alternative URI /servers/detail

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /servers/detail

92 ServerMonitoringDetails

The following server metrics can be monitored on a [Server](#).

92.1 CPU

The amount of allocated CPU cores that are currently in use on the server.

[ServerMonitoringDetailsCPU](#)

92.2 Disk

The amount of allocated Disk space that is currently in use on the server.

[ServerMonitoringDetailsDisk](#)

92.3 Bandwidth

The amount of Bandwidth that is currently in use on the server.

[ServerMonitoringDetailsBandwidth](#)

93 ServerMonitoringDetailsBandwidth

This operation will list Bandwidth monitoring details for a specific [Server](#).

94 GET

/accounts/{accountId}/flexcloud/servers/{id}/monitoring/bandwidth?scope=monitoring

94.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the server.

scope

The monitoring scope used. Possible values: **receive** and **transmit**.

startDate

Start date for monitoring details report in format **yyyy-mm-dd**.

endDate

End date for monitoring details report in format **yyyy-mm-dd**.

period

The time period in seconds used for data interval. Possible values: **3600**(one hour) or **86400**(one day).

method

Statistics method used. Possible values: **avg**,**sum**,**min** and **max**.

94.2 Date Format

All dates are interpreted and represented in UTC with **ISO 8601 format**

94.3 Result

94.3.1 JSON

```
[
  {
    "count": 143,
    "date": "2012-05-07 00:00:00",
    "values": 344130.30069930002
  },
  {
    "count": 144,
    "date": "2012-05-08 00:00:00",
    "values": 658.34027777777999
  }
]
```

count - *integer*

The count of bandwidth operations for the period specified.

date - *string*

The date and time stamp for the period specified.

values - *float*

The sample value calculated depending on statistics method used.

94.4 Response Codes

Success

HTTP/1.1 200 OK

The request is accepted for processing.

Failure

HTTP/1.1 400 Bad Request

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found - The resource does not exist.

94.5 Examples

Successfully get Bandwidth usage monitoring data

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/bandwidth?scope=usage&startDate=2012-05-07&endDate=2012-05-08

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
[
  {
    "count": 143,
```

```

    "date": "2012-05-07 00:00:00",
    "values": 344130.30069930002
  },
  {
    "count": 144,
    "date": "2012-05-08 00:00:00",
    "values": 658.34027777777999
  },
  {
    "count": 144,
    "date": "2012-05-09 00:00:00",
    "values": 2.1111111111111001
  }
]

```

Failure while trying to get Bandwidth usage monitoring data with a bad scope parameter

GET
 http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/bandwidth?scope=fake-scope&startDate=2012-05-07&endDate=2012-05-07

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```

{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": "The bandwidth monitoring scope is not supported",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to get Bandwidth usage monitoring data with a bad date parameter

GET
 http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/bandwidth?scope=usage&startDate=fake-date&endDate=2012-05-07

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```

{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": {
      "startDate": "Invalid date"
    },
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to get Bandwidth usage monitoring data with a bad period parameter

GET
 http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/bandwidth?scope=usage&startDate=2012-05-07&endDate=2012-05-07&period=fake-period

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```

{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": {
      "period": "\"fake-period\" is not a number"
    },
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to get Bandwidth usage monitoring data with a bad method parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/bandwidth?scope=usage&startDate=2012-05-07&endDate=2012-05-10

Request Headers:

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": "Invalid statistics_method",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to get Bandwidth usage monitoring data with a missing scope parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/bandwidth?startDate=2012-05-07&endDate=2012-05-10&period=86400

Request Headers:

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": "The bandwidth monitoring scope is missing",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to get Bandwidth usage monitoring data with a missing date parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/bandwidth?scope=usage&endDate=2012-05-10&period=86400

Request Headers:

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": {
      "startDate": "Required"
    },
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to get Bandwidth usage monitoring data with a missing period parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/bandwidth?scope=usage&startDate=2012-05-07&endDate=2012-05-10

Request Headers:

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest": {
```

```

    "message": "Bad request",
    "code": 400,
    "details": {
      "period": "Required"
    },
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to get Bandwidth usage monitoring data with a missing method parameter

GET
 http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/bandwidth?scope=usage&startDate=2012-05-07&endDate=2012-05-07

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```

{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": {
      "method": "Required"
    },
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to get Bandwidth usage monitoring data for a non-existent server

GET
 http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{fake-server_name}/monitoring/bandwidth?scope=usage&startDate=2012-05-07&endDate=2012-05-07

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```

{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Unauthorized access

GET
 http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/bandwidth?scope=usage&startDate=2012-05-07&endDate=2012-05-07

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string

```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```

401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.

```

Failure while trying to pass invalid account number

GET
 http(s)://{api_server}/accounts/fake/flexcloud/servers/{server_name}/monitoring/bandwidth?scope=usage&startDate=2012-05-07&endDate=2012-05-07

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

94.6 Alternative URI `/servers/{id}/monitoring/bandwidth`

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /servers/{id}/monitoring/bandwidth
```

95 ServerMonitoringDetailsCPU

This operation will list CPU monitoring details for a specific [Server](#).

96 GET

/accounts/{accountId}/flexcloud/servers/{id}/monitoring/cpu?startDate=startDate&endDate=endDate

96.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the server.

startDate

Start date for monitoring details report in format **yyyy-mm-dd**.

endDate

End date for monitoring details report in format **yyyy-mm-dd**.

period

The time period in seconds used for data interval. Possible values: **3600**(one hour) or **86400**(one day).

method

Statistics method used. Possible values: **avg,sum,min** and **max**.

96.2 Result

96.2.1 JSON

```
[
  {
    "count": 144,
    "date": "2012-05-07 00:00:00",
    "values": 0.0
  },
  {
    "count": 143,
    "date": "2012-05-08 00:00:00",
    "values": 0.0
  }
]
```

count - *integer*

The count of CPU operations for the period specified.

date - *string*

The date and time stamp for the period specified.

values - *float*

The sample value calculated depending on statistics method used.

96.3 Response Codes

Success

HTTP/1.1 200 OK

The request is accepted for processing.

Failure

HTTP/1.1 400 Bad Request

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found - The resource does not exist.

96.4 Examples

Successfully get CPU usage monitoring data

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/cpu?startDate=2012-05-07&endDate=2012-05-10&period=86400

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
[
  {
    "count": 144,
    "date": "2012-05-07 00:00:00",
    "values": 0.0
  },
  {
    "count": 143,
    "date": "2012-05-08 00:00:00",
    "values": 0.0
  }
]
```

```
    "count": 144,  
    "date": "2012-05-09 00:00:00",  
    "values": 0.0  
  }  
]
```

Failure while trying to get CPU usage monitoring data with a bad date parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/cpu?startDate=fake-date&endDate=2012-05-10&period=86400

Request Headers:

```
Content-Type:application/json  
Charset=UTF-8  
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{  
  "badRequest": {  
    "message": "Bad request",  
    "code": 400,  
    "details": {  
      "startDate": "Invalid date"  
    },  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  },  
}
```

Failure while trying to get CPU usage monitoring data with a bad period parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/cpu?startDate=2012-05-07&endDate=2012-05-10&period=fake

Request Headers:

```
Content-Type:application/json  
Charset=UTF-8  
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{  
  "badRequest": {  
    "message": "Bad request",  
    "code": 400,  
    "details": {  
      "period": "\"fake-period\" is not a number"  
    },  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  },  
}
```

Failure while trying to get CPU usage monitoring data with a bad method parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/cpu?startDate=2012-05-07&endDate=2012-05-10&period=86400

Request Headers:

```
Content-Type:application/json  
Charset=UTF-8  
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{  
  "badRequest": {  
    "message": "Bad request",  
    "code": 400,  
    "details": "Invalid statistics_method",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  },  
}
```

Failure while trying to get CPU usage monitoring data with a missing date parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/cpu?endDate=2012-05-10&period=86400&method=avg

Request Headers:

```
Content-Type:application/json  
Charset=UTF-8
```

Authorization:Base64-encoded username & password string

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": {
      "startDate": "Required"
    },
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to get CPU usage monitoring data with a missing period parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/cpu?startDate=2012-05-07&endDate=2012-05-10&method=avg

Request Headers:

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": {
      "period": "Required"
    },
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to get CPU usage monitoring data with a missing method parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/cpu?startDate=2012-05-07&endDate=2012-05-10&period=864

Request Headers:

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": {
      "method": "Required"
    },
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to get CPU usage monitoring data for a non-existent server

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{fake-server_name}/monitoring/cpu?startDate=2012-05-07&endDate=2012-05-10&period=

Request Headers:

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

```
}  
}
```

Unauthorized access

GET

`http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/cpu?startDate=2012-05-07&endDate=2012-05-10&period=86400&met`

Request Headers:

```
Content-Type:application/json  
Charset=UTF-8  
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized  
This server could not verify that you are authorized to  
access the document you requested. Either you supplied the  
wrong credentials (e.g., bad password), or your browser  
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

GET

`http(s)://{api_server}/accounts/fake/flexcloud/servers/{server_name}/monitoring/cpu?startDate=2012-05-07&endDate=2012-05-10&period=86400&met`

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{  
  "itemNotFound" : {  
    "message": "Resource not found",  
    "code": 404,  
    "details": "",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  }  
}
```

96.5 Alternative URI /servers/{id}/monitoring/cpu

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /servers/{id}/monitoring/cpu

97 ServerMonitoringDetailsDisk

This operation will list Disk monitoring details for a specific [Server](#).

98 GET

/accounts/{accountId}/flexcloud/servers/{id}/monitoring/disk?scope=monitoringScope

98.1 Parameters

accountId - *string*

The selected account Id

id

The unique identifier of the server.

scope

The monitoring scope used. Possible values: **usage**, **read_count**, **write_count**, **read_bytes** and **write_bytes**.

startDate

Start date for monitoring details report in format **yyyy-mm-dd**.

endDate

End date for monitoring details report in format **yyyy-mm-dd**.

period

The time period in seconds used for data interval. Possible values: **3600**(one hour) or **86400**(one day).

method

Statistics method used. Possible values: **avg**, **sum**, **min** and **max**.

98.2 Result

98.2.1 JSON

```
[
  {
    "count": 144,
    "date": "2012-05-07 00:00:00",
    "values": 3.2083333333333002
  },
  {
    "count": 143,
    "date": "2012-05-08 00:00:00",
    "values": 6.0
  }
]
```

count - *integer*

The count of disk operations for the period specified.

date - *string*

The date and time stamp for the period specified.

values - *float*

The sample value calculated depending on statistics method used.

98.3 Response Codes

Success

HTTP/1.1 200 OK

The request is accepted for processing.

Failure

HTTP/1.1 400 Bad Request

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found - The resource does not exist.

98.4 Examples

Successfully get Disk usage monitoring data

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/disk?scope=usage&startDate=2012-05-07&endDate=2012-05-1

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
[
  {
    "count": 144,
    "date": "2012-05-07 00:00:00",
    "values": 3.2083333333333002
  },
  {
    "count": 143,
```

```

        "date": "2012-05-08 00:00:00",
        "values": 6.0
    },
    {
        "count": 144,
        "date": "2012-05-09 00:00:00",
        "values": 6.0
    }
]

```

Failure while trying to get Disk usage monitoring data with a bad scope parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/disk?scope=fake-scope&startDate=2012-05-07&endDate=2012-05-10

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```

{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": "The disk monitoring scope is not supported",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to get Disk usage monitoring data with a bad date parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/disk?scope=usage&startDate=fake-date&endDate=2012-05-10

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```

{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": {
      "startDate": "Invalid date"
    },
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to get Disk usage monitoring data with a bad period parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/disk?scope=usage&startDate=2012-05-07&endDate=2012-05-10

Request Headers:

```

Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string

```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```

{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": {
      "period": "\"fake-period\" is not a number"
    },
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

Failure while trying to get Disk usage monitoring data with a bad method parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/disk?scope=usage&startDate=2012-05-07&endDate=2012-05-10

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": "Invalid statistics_method",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to get Disk usage monitoring data with a missing scope parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/disk?startDate=2012-05-07&endDate=2012-05-10&period=86400

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": "The disk monitoring scope is missing",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to get Disk usage monitoring data with a missing date parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/disk?scope=usage&endDate=2012-05-10&period=86400&method=flexcloud

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": {
      "startDate": "Required"
    },
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to get Disk usage monitoring data with a missing period parameter

GET

http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/disk?scope=usage&startDate=2012-05-07&endDate=2012-05-10

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{
  "badRequest": {
    "message": "Bad request",
    "code": 400,
    "details": {
      "period": "Required"
    },
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

```
}  
}
```

Failure while trying to get Disk usage monitoring data with a missing method parameter

GET

`http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/disk?scope=usage&startDate=2012-05-07&endDate=2012-05-10`

Request Headers:

```
Content-Type:application/json  
Charset=UTF-8  
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 400 Bad Request

Response Body:

```
{  
  "badRequest": {  
    "message": "Bad request",  
    "code": 400,  
    "details": {  
      "method": "Required"  
    },  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  },  
}
```

Failure while trying to get disk usage monitoring data for a non-existent server

GET

`http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{fake-server_name}/monitoring/disk?scope=usage&startDate=2012-05-07&endDate=2012-05-10`

Request Headers:

```
Content-Type:application/json  
Charset=UTF-8  
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{  
  "itemNotFound": {  
    "message": "Resource not found",  
    "code": 404,  
    "details": "",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  },  
}
```

Unauthorized access

GET

`http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_name}/monitoring/disk?scope=usage&startDate=2012-05-07&endDate=2012-05-10`

Request Headers:

```
Content-Type:application/json  
Charset=UTF-8  
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized  
This server could not verify that you are authorized to  
access the document you requested. Either you supplied the  
wrong credentials (e.g., bad password), or your browser  
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

GET

`http(s)://{api_server}/accounts/fake/flexcloud/servers/{server_name}/monitoring/disk?scope=usage&startDate=2012-05-07&endDate=2012-05-10&period=10`

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{  
  "itemNotFound": {  
    "message": "Resource not found",  
    "code": 404,  
    "details": "",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  },  
}
```

```
} }
```

98.5 Alternative URI `/servers/{id}/monitoring/disk`

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /servers/{id}/monitoring/disk
```

99 ServerSnapshot

This article describes operations for getting details of a server snapshot. Other types of operations on a server snapshot are: [ServerSnapshotCreate](#), [ServerSnapshotActions](#), etc.

100 GET

/accounts/{accountId}/flexcloud/servers/{server_id}/snapshots/{snapshot_id}

This operation will return details of a single server.

100.1 Parameters

accountId - *string*

The selected account Id.

server_id

The unique identifier of the server.

snapshot_id

The unique identifier of the server snapshot to get

100.2 Result

100.2.1 JSON

```
{
  "snapshot": {
    "id": "{snapshot_id}",
    "name": "{snapshot_name}",
    "description": "{description}",
    "status": "{status}",
    "guid": "{guid}",
    "parent_guid": "{parent_guid}",
    "relation_guid": "{relation_guid}",
    "create_time": "{create_time}",
    "links": [{"href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/snapshots/{snapshot_id}/",
               "rel": "self"}],
  }
}
```

id - *string*

Unique identifier for this server snapshot.

name - *string*

Display name of this server snapshot.

description - *string*

Description of this server snapshot.

guid - *string*

GUID of this server snapshot.

parent_guid - *string*

Parent GUID of this server snapshot.

relation_guid - *string*

Relation GUID of this server snapshot.

status - *string*

Status of this server snapshot; Values: 'ACTIVE', 'BUILD', 'DELETED'

create_time - *string*

Created time of this server snapshot

links - *array*

[Hypermedia](#) for this resource.

100.3 Response Codes

Success

OK (200)

Failure

Unauthorized (401) : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

ItemNotFound (404) : The resource requested is not found.

100.4 Examples

Successfully get server details

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/snapshots/snapshot_jello614636-USOTE-0214_2012Jul19_m5yf9Bz8a

- *Request Headers:*

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

- *Response: OK (200):*

```
{
  "snapshot": {
    "id": "snapshot_jello614636-USOTE-0214_2012Jul19_m5yf9Bz8a",
    "name": "fitnesse snapshot"
  }
}
```



```

    "description": "fitness test snapshot",
    "status": "ACTIVE",
    "guid": "a4e76fdf-8696-4848-ba81-cfe090e1401d",
    "parent_guid": "491aee4b-34bc-45e5-ac47-7ef9fb96c4c4",
    "relation_guid": "42130087-f34c-4823-885d-8a908017ed8d",
    "create_time": "2012-07-19 16:28:09",
    "links": [{"href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/jello614636-USOTE-0214/snapshots/snapshot_jello614636-"}
}

```

- When a server is in pending status (has not completed the provisioning process), the creation timestamp and hostId that are returned will be empty strings.

Failure while trying to get server details without proper authorization - Response: Unauthorized (401):

```

401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.

```

Failure while trying to get server details for a non-existent server id - Response: ItemNotFound (404):

```

{
  "itemNotFound":
  {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}

```

101 DELETE

/accounts/{accountId}/flexcloud/servers/{server_id}/snapshots/{snapshot_id}

This operation will delete a single server snapshot.

101.1 Parameters

accountId - *string*

The selected account Id.

server_id - *string*

The selected server Id.

snapshot_id - *string*

Id of the server snapshot to delete.

101.2 Response Codes

Success

HTTP/1.1 202 Accepted or HTTP/1.1 204 No Content

Failure

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

HTTP/1.1 404 Not Found : The resource requested is not found.

101.3 Examples

Successfully delete a specific server

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/123/snapshots/567

Response Code:

HTTP/1.1 202 Accepted

Failure while trying to update a non-existent server

DELETE http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/123/snapshots/{fake_server_id}

Response Code:

HTTP/1.1 404 Not Found

Failure while trying to update server with a wrong account number

DELETE http(s)://{api_server}/accounts/fake/flexcloud/servers/123/snapshots/567

Response Code:

HTTP/1.1 404 Not Found

101.4 Alternative URI /servers/{server_id}/snapshots/{snapshot_id}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /servers/{server_id}/snapshots/{snapshot_id}

102 ServerSnapshotActionRestore

The stop action is used for stopping a [Server](#). Stopping a server changes its status from ACTIVE to STOPPED.

103 POST

/accounts/{*accountId*}/flexcloud/servers/{*server_id*}/snapshots/{*snapshot_id*}/actions

103.1 Parameters

accountId - *string*
The selected account Id.

server_id
The unique identifier of the server to be restored.

snapshot_id
The unique identifier of the server snapshot to restore

103.1.1 JSON

```
{  
  "action": "restore"  
}
```

103.2 Response Codes

Success
HTTP/1.1 202 Accepted : The request is accepted for processing.

Failure
HTTP/1.1 400 Bad Request : An error occurred.
HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found : The resource requested is not found.

103.3 Alternative URI /servers/{*server_id*}/snapshots/{*snapshot_id*}/action

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST /servers/{*server_id*}/snapshots/{*snapshot_id*}/action

104 ServerSnapshotActions

The following action can be performed on a [ServerSnapshot](#).

104.1 Restore

This operation will restore a server from a snapshot. [ServerSnapshotActionRestore](#)

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105 ServerSnapshotCreate

This operation will create a new server snapshot of a server. Server snapshot creation is asynchronous, the progress can be checked with the URL in the response Location header or the self link in the body.

106 POST /accounts/{accountId}/flexcloud/servers/{server_id}/snapshots

This operation will create a new server snapshot. Server snapshot creation is asynchronous, the progress can be checked with the URL in the response Location header or the self link in the body.

106.1 Parameters

accountId - *string*

The selected account Id.

server_id

The unique identifier of the server.

106.1.1 JSON

```
{
  "snapshot": {
    "name": "{name}",
    "description": "{description}"
  }
}
```

name - *string*

Display name for this server snapshot

description - *string*

Description for this server snapshot

106.2 Result

106.2.1 JSON

```
{
  "snapshot": {
    "id": "{snapshot_id}",
    "name": "{snapshot_name}",
    "description": "{description}",
    "status": "{status}",
    "guid": "{guid}",
    "parent_guid": "{parent_guid}",
    "relation_guid": "{relation_guid}",
    "create_time": "{create_time}",
    "links": [{"href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/snapshots/{snapshot_id}/",
               "rel": "self"}],
  }
}
```

- When a server snapshot is in pending status (has not completed the provisioning process), the create_time, guid, parent_guid, and relation_guid will be empty strings.

id - *string*

Unique identifier for this server snapshot.

name - *string*

Display name of this server snapshot.

description - *string*

Description of this server snapshot.

guid - *string*

GUID of this server snapshot.

parent_guid - *string*

Parent GUID of this server snapshot.

relation_guid - *string*

Relation GUID of this server snapshot.

status - *string*

Status of this server snapshot; Values: 'ACTIVE', 'BUILD', 'DELETED'

create_time - *string*

Created time of this server snapshot

links - *array*

[Hypermedia](#) for this resource.

106.3 Response Codes

Success

HTTP/1.1 202 Accepted

Request is accepted.

Failure

HTTP/1.1 400 Bad Request

The snapshot cannot be created because the server contains extra volumes.

HTTP/1.1 404 itemNotFound

The resource does not exist

HTTP/1.1 409 Conflict

The snapshot name must be unique in a server.

HTTP/1.1 413 Request entity too large

The snapshot can be created up to 3 in a server.

106.4 Examples

Successfully create a new server

POST `http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/snapshots`

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Request Body:

```
{
  "snapshot": {
    "name": "fitnesse snapshot",
    "description": "fitnesse test snapshot"
  }
}
```

Response Code:

HTTP/1.1 202 Accepted

Response Body:

```
{
  "snapshot": {
    "id": "snapshot_jello614636-USOTE-0214_2012Jul19_m5yf9Bz8a",
    "name": "test snapshot",
    "description": "test snapshot description",
    "status": "BUILD",
    "guid": "",
    "parent_guid": "",
    "relation_guid": "",
    "create_time": "0000-00-00 00:00:00",
    "links": [
      { "href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/snapshots/snapshot_jello614636-USOTE-0214_2012Jul19_m5yf9Bz8a",
        "rel": "self" },
    ]
  }
}
```

Failure while trying to update server with a wrong account number

POST `http://{api_server}/accounts/fake/flexcloud/servers/{server_id}/snapshots`

Response Code:

HTTP/1.1 404 Not Found

106.5 Alternative URI /servers/{server_id}/snapshots

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

POST `/servers/{server_id}/snapshots`

107 ServerSnapshotList

This operation returns a list of all [server snapshots](#).

108 GET

/accounts/{accountId}/flexcloud/servers/{server_id}/snapshots/{snapshot_id}/

108.1 Parameters

accountId - *string*

The selected account Id.

server_id

The unique identifier of the server.

snapshot_id

The unique identifier of the server snapshot

108.2 Result

108.2.1 JSON

```
{
  'snapshots': [
    {
      "id": "{snapshot_id}",
      "name": "{display_name}",
      "description": "{description}",
      "guid": "{guid}",
      "parent_guid": "{parent_guid}",
      "relation_guid": "{releation_guid}",
      "status": '{status}',
      "create_time": "{create_time}",
      "links": [{ 'href': 'http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/', 'rel': 'self' }],
    },
    {
      "id": "{snapshot_id}",
      "name": "{display_name}",
      "description": "{description}",
      "guid": "{guid}",
      "parent_guid": "{parent_guid}",
      "relation_guid": "{releation_guid}",
      "status": '{status}',
      "create_time": "{create_time}",
      "links": [{ 'href': 'http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/', 'rel': 'self' }],
    }
  ]
}
```

id - *string*

Unique identifier for this server snapshot.

name - *string*

Display name of this server snapshot.

description - *string*

Description of this server snapshot.

guid - *string*

GUID of this server snapshot.

parent_guid - *string*

Parent GUID of this server snapshot.

relation_guid - *string*

Relation GUID of this server snapshot.

status - *string*

Status of this server snapshot; one out of 'ACTIVE', 'BUILD', 'DELETED'

create_time - *string*

Created time of this server snapshot

links - *array*

[Hypermedia](#) for this resource.

108.3 Response Codes

Success

HTTP/1.1 202 ACCEPTED

Failure

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

108.4 Examples

Successfully list server snapshots

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/snapshots/

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  'snapshots': [
    {
      "id": "snapshot_jello614636-USOTE-0214_2012Jul18_Fkmm7a2ZM",
      "name": "fitnesse snapshot",
      "description": "fitnesse test snapshot",
      "status": "ACTIVE",
      "guid": "5c51c729-2cbe-4eb8-a116-6fef5a5f5c12",
      "parent_guid": "e039d899-4207-4984-a408-7400a3eaf27b",
      "relation_guid": "491aee4b-34bc-45e5-ac47-7ef9fb96c4c4",
      "create_time": "2012-07-18 15:48:12",
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/snapshots/snapshot_jello614636-USOTE-0214_2012Jul18_Fkmm7a2ZM",
          "rel": "self"
        }
      ]
    },
    {
      "id": "snapshot_jello614636-USOTE-0214_2012Jul19_Hzxp5LHGz",
      "name": "fitnesse snapshot",
      "description": "fitnesse test snapshot",
      "status": "DELETED",
      "guid": "cdc39fc9-cda9-4eae-aeb9-274e5f8d1642",
      "parent_guid": "491aee4b-34bc-45e5-ac47-7ef9fb96c4c4",
      "relation_guid": "b4833231-b685-415b-9977-42d7424d6646",
      "create_time": "2012-07-19 12:36:55",
      "links": [
        {
          "href": "http://10.10.150.59:6543/accounts/{accountId}/flexcloud/servers/{server_id}/snapshots/snapshot_jello614636-USOTE-0214_2012Jul19_Hzxp5LHGz",
          "rel": "self"
        }
      ]
    },
    {
      "id": "snapshot_jello614636-USOTE-0214_2012Jul19_m5yf9Bz8a",
      "name": "fitnesse snapshot",
      "description": "fitnesse test snapshot",
      "status": "ACTIVE",
      "guid": "a4e76fdf-8696-4848-ba81-cfe090e1401d",
      "parent_guid": "491aee4b-34bc-45e5-ac47-7ef9fb96c4c4",
      "relation_guid": "42130087-f34c-4823-885d-8a908017ed8d",
      "create_time": "2012-07-19 16:28:09",
      "links": [
        {
          "href": "http://10.10.150.59:6543/accounts/{accountId}/flexcloud/servers/{server_id}/snapshots/snapshot_jello614636-USOTE-0214_2012Jul19_m5yf9Bz8a",
          "rel": "self"
        }
      ]
    }
  ]
}
```

Failure while trying to make unauthorized access

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/servers/{server_id}/snapshots/

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

GET http(s)://{api_server}/accounts/fake/flexcloud/servers/{server_id}/snapshots/

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

108.5 Alternative URI `/servers/{server_id}/snapshots/{snapshot_id}`

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /servers/{server_id}/snapshots/{snapshot_id}
```

109 View Allocated Flexible IP

This operation will list details of the specific allocated flexible IP address.

110 GET /accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}

List details of the specific allocated flexible IP address.

110.1 Parameters

accountId - *string*
The selected account Id.

ip_address - *string*

110.2 Response

110.2.1 JSON

```
{
  "floating_ip" : [
    {
      "instance_id" : {instance_id},
      "ip": "{ip_address}",
      "fixed_ip": null,
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}/",
          "rel": "self"
        }
      ],
      "pool": "default"
    }
  ]
}
```

110.2.1.1 floating_ip

instance_id - *string*
Unique instance identifier floating IP is assigned to.

ip - *string*
IP address allocated.

fixed_ip - *string*
Fixed IP address.

links - *list*
[Hypermedia](#) for this resource.

pool - *string*
Name of the pool IP address belongs to.

110.3 Response Codes

Success
HTTP/1.1 200 OK

Failure
HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist

110.4 Examples

View detailed information for the specified allocated floating IP address

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "floating_ip" : [
    {
      "instance_id": "test_server_0013",
      "ip": "{ip_address}",
      "fixed_ip": null,
      "links": [
        {
          "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}/",
          "rel": "self"
        }
      ],
      "pool": "default"
    }
  ]
}
```

Unauthorized access

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{ip_address}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to view details for a non-existent flexible IP address

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/os-floating-ips/{fake_ip_address}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Failure while trying to pass invalid account number

GET http(s)://{api_server}/accounts/fake/flexcloud/os-floating-ips/{ip_address}

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound" : {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

110.5 Alternative URI /os-floating-ips/{ip_address}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

GET /os-floating-ips/{ip_address}

111 View Firewall Group Details

This operation will list the details for the specified firewall group.

112 GET /accounts/{accountId}/flexcloud/os-security-groups/{id}

This operation will list the details for the specified firewall group.

112.1 Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the firewall group.

112.2 Response

112.2.1 JSON

```
{
  "securityGroup" : {
    "displayName" : "{firewall_group_display_name}",
    "description" : "{firewall_group_description}",
    "links" : [
      {
        "href" : "http://{api-server}/accounts/{accountId}/flexcloud/os-security-groups/{firewall_group_name}/",
        "rel" : "self"
      }
    ],
    "rules" : [
      {
        "fromPort" : "{start_port}",
        "toPort" : "{end_port}",
        "protocol" : "{ip_protocol}",
        "cidr" : "0.0.0.0/0",
        "id" : "145"
      },
      {
        "fromPort" : "{start_port}",
        "toPort" : "{end_port}",
        "protocol" : "{ip_protocol}",
        "cidr" : "127.0.0.1/0",
        "id" : "169"
      }
    ],
    "servers" : ["{server_id}"],
    "accountNumber" : "{user_account_number}",
    "id" : "{firewall_group_id}"
  }
}
```

112.2.1.1 securityGroup

displayName - *string*

The display name of the firewall group.

description - *string*

Text describing the firewall group.

links - *list*

[Hypermedia](#) for this resource.

rules - *list*

List describing all defined security rules for the group.

servers - *list*

List of server ids this firewall group is assigned to.

accountNumber - *string*

Identifies an account that owns the firewall group.

id - *string*

The id of this firewall group. (Unique identifier for this firewall group.)

112.3 Response Codes

Success

HTTP/1.1 200 OK

Failure

HTTP/1.1 401 Unauthorized : This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

112.4 Examples

Successfully list details for specified firewall group

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/group2012May11_OK30Zs7Ju

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "securityGroup": {
    "displayName": "Test Firewall Group 1",
    "description": "Test firewall group 1 description.",
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/group2012May11_OK30Zs7Ju/",
        "rel": "self"
      }
    ],
    "rules": [
      {
        'toPort': 1111,
        'fromPort': 1111,
        'protocol': 'TCP',
        'id': 145,
        'cidr': '0.0.0.0/0'
      },
      {
        'toPort': 80,
        'fromPort': 80,
        'protocol': 'TCP',
        'id': 196,
        'cidr': '127.0.0.1/24'
      }
    ],
    "id": "group2012May11_OK30Zs7Ju",
    "accountNumber": "test_account_120761",
    "servers": ["test-server-0003"]
  }
}
```

Failure while trying to request details for a firewall group that does not exist

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/{fake_firewall_group_name}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    {
      "message": "Resource not found",
      "code": 404,
      "details": "",
      "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
    }
  }
}
```

Failure while trying to make unauthorized access

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/os-security-groups/group2012May11_OK30Zs7Ju

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

GET http(s)://{api_server}/accounts/fake/flexcloud/os-security-groups/group2012May11_OK30Zs7Ju

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    "message": "Resource not found",
  }
}
```

```
    "code": 404,  
    "details": "",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  }  
}
```

112.5 Alternative URI /os-security-groups/{name}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /os-security-groups/{name}
```

113 View Single Volume

This operation will return details of a single volume.

114 GET /accounts/{accountId}/flexcloud/volumes/{id}

This operation will return details of a single volume.

114.1 Request Parameters

accountId - *string*

The selected account Id.

id

The unique identifier of the volume.

114.2 Result

114.2.1 JSON

```
{
  "volume" : {
    "id": "{volume_id}",
    "display_name" : "{display_volume_name}",
    "display_description" : "{display_volume_description}",
    "size" : {size_quantity},
    "volume_type" : "{volume_type_id}",
    "metadata" : {},
    "availability_zone" : "{availability_zone_id}",
    "attachments": [],
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/volumes/{volume_id}/",
        "rel": "self"
      }
    ],
    "snapshot_id": "",
    "created_at": "2012-05-03 11:35:44"
  }
}
```

114.2.1.1 volume

id - *string*

Identifier of the volume instance.

display_name - *string*

Display name for this volume.

display_description - *string*

Descriptive information for this volume.

size - *int*

Volume size.

volume_type - *string*

Identifier of the volume type used. *(Not used in the current version).

metadata - *string*

Additional metadata info.

availability_zone - *string*

Identifier of the availability zone into which this volume was created.

attachments - *list*

List of attachments this volume is associated with.

links - *array*

[Hypermedia](#) for this resource.

snapshot_id - *string*

Identifier of the snapshot associated with this volume if exists.

created_at - *string*

Volume creation timestamp.

114.3 Response Codes

Success

HTTP/1.1 200 OK

Failure

HTTP/1.1 401 Unauthorized - This server could not verify that you are authorized to access the document you requested. Either you supplied incorrect credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.
HTTP/1.1 404 Not Found - The resource does not exist.

114.4 Examples

Successfully get single volume details

GET http://{api_server}/accounts/{accountId}/flexcloud/volumes/hbs2012May03_0OxRg0Jz7

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 200 OK

Response Body:

```
{
  "volume": {
    "display_name": "vol-test-003",
    "attachments": [],
    "links": [
      {
        "href": "http://{api_server}/accounts/{accountId}/flexcloud/volumes/hbs2012May03_00xRg0Jz7/",
        "rel": "self"
      }
    ],
    "availability_zone": "test_zone",
    "created_at": "2012-05-03 11:35:44",
    "volume_type": "",
    "display_description": "Another test volume.",
    "snapshot_id": "",
    "metadata": {},
    "id": "hbs2012May03_00xRg0Jz7",
    "size": "30GB"
  }
}
```

Failure while trying to request for a volume that does not exist

GET http(s)://{api_server}/accounts/{accountId}/flexcloud/volumes/{fake_volume_id}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

Failure while trying to make an unauthorized request

GET http://{api_server}/accounts/{accountId}/flexcloud/volume/{volume_id}

Request Headers:

```
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response Code:

HTTP/1.1 401 Unauthorized

Response Body:

```
401 Unauthorized
This server could not verify that you are authorized to
access the document you requested. Either you supplied the
wrong credentials (e.g., bad password), or your browser
does not understand how to supply the credentials required.
```

Failure while trying to pass invalid account number

GET http://{api_server}/accounts/fake/flexcloud/volume/{volume_id}

Response Code:

HTTP/1.1 404 Not Found

Response Body:

```
{
  "itemNotFound": {
    "message": "Resource not found",
    "code": 404,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

114.5 Alternative URI /volumes/{id}

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /volumes/{id}
```

115 Zone

116 GET /accounts/{accountId}/flexcloud/zone

Returns all available zones for the specified account.

116.1 Contents

- 1 GET /accounts/{accountId}/flexcloud/zone
 - ◆ 1.1 Request
 - ◇ 1.1.1 Request Parameters
 - ◆ 1.2 Response
 - ◇ 1.2.1 Status Code
 - ◇ 1.2.2 Response Body
 - 1.2.2.1 Parameters
 - ◆ 1.3 Examples
 - ◇ 1.3.1 Successfully get the zones
 - ◇ 1.3.2 Failure while trying to make an unauthorized request
 - ◇ 1.3.3 Permission denied failure
 - ◇ 1.3.4 Account Number not found
 - ◆ 1.4 Alternative URI /zones
 - ◆ 1.5 See also

116.2 Request

GET /accounts/{accountId}/flexcloud/zone

116.2.1 Request Parameters

accountId - *string*
The selected account Id.

116.3 Response

116.3.1 Status Code

200 OK
Success

401 Unauthorized
Failure - This server could not verify that you are authorized to access the document you requested. Either you supplied the wrong credentials (e.g., bad password), or your browser does not understand how to supply the credentials required.

403 Forbidden
Failure - The resource is forbidden for this user

404 itemNotFound
Failure - When trying to get the zones with invalid account number

116.3.2 Response Body

```
{
  "account_number": [
    {
      "zone": "zone_id",
      "location": "zone_location"
    },
    {
      "zone": "zone_id",
      "location": "zone_location"
    }
  ]
}
```

116.3.2.1 Parameters

account_number - *string*
Account for which the zones are available. There can be several accounts per response.

zone - *string*
Zone Id.

location - *string*
Location of the zone.

116.4 Examples

116.4.1 Successfully get the zones

Request

GET /accounts/smith1234/flexcloud/zone
Authorization: Basic {Base64-encoded username:password string}

Response

200 OK

```
{
  "smith1234": [
    {
      "zone": "USOTE-2012-TAMPA",
      "location": "ote.2012.tampa"
    }
  ]
}
```

116.4.2 Failure while trying to make an unauthorized request

Request

```
GET /accounts/smith1234/flexcloud/zone
Authorization: Basic {invalid authorization}
```

Response

```
401 Unauthorized
```

116.4.3 Permission denied failure

Request

```
GET /accounts/smith1234/flexcloud/zone
Authorization: Basic {Base64-encoded username:password string}
```

Response

```
403 Forbidden
```

```
{
  "forbidden": {
    "message": "forbidden",
    "code": 403,
    "details": "",
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"
  }
}
```

116.4.4 Account Number not found

Request

```
GET /accounts/fake/flexcloud/zone
Authorization: Basic {Base64-encoded username:password string}
```

Response

```
{
  "itemNotFound": {
    "guid": "23684df5-0532-4794-802d-fdc82e4e7e7c",
    "message": "Resource not found",
    "code": 404,
    "details": ""
  }
}
```

116.5 Alternative URI /zones

An alternative way to execute this call is to omit the *accountId* portion of the URI. In this case the system assumes the request is executed for the account identified in the [authorization header](#).

```
GET /zones
```

116.6 See also

- [FlexCloud Server API](#)
- [Common Features](#)

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