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1 Add a node to a load balancer

2 POST /accounts/{accountId}/loadbalancers/{loadbalancerId}/nodes

This operation will add a node to an existing load balancer.

2.1 Request

2.1.1 URI Parameters

accountId - *string*

The selected account Id.

loadbalancerId - *string*

The selected loadbalancer Id.

2.1.2 Request Body

```
{
  "serverRef": "{serverRefURL}",
  "port": "{port}",
  "condition": "{lbNodeCondition}"
}
```

2.1.2.1 Parameters

serverRef - *string*

the URI of this node

port - *integer*

port of this node

condition -- *string*

(optional) node condition when added (possible values are ENABLED or DISABLED)

2.2 Response

2.2.1 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.

2.3 Examples

Request

```
POST /accounts/{accountId}/loadbalancers/{loadbalancerId}/nodes
Content-Type:application/json
Authorization:Base64-encoded username & password string
```

```
{
  "serverRef": "http://localhost:6543/accounts/jello614636/flexcloud/servers/jello614636-USOTE-2008-TAMPA-0002",
  "port": "80",
  "condition": "ENABLED"
}
```

Response

201 Created

Content-Type: application/json; charset=UTF-8

Location : </nowiki>{{APIBaseURL}}<nowiki>/account/{accountId}/loadbalancer/{lbId}/nodes/{nodeId}

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3 Add one node to a node pool

4 POST

/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes

This operation adds a node to an existing load balancer.

4.1 Request

POST /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes

4.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected loadbalancer id.

nodePoolId - *string*
The selected node pool id.

4.1.2 Request Body

```
{
  "server": "{serverUrl}",
  "port": {port},
  "status": "{lbNodeStatus}"
}
```

4.1.2.1 Parameters

server - *list*
Hypermedia to a resource of the server node hosted by Hostway
it could be flexcloud servers virtual machine URL (<http://api-server/account/{accountId}/flexcloud/servers/{serverId}>)

port - *integer*
The tcp port the load balancer will act on
Allowed range is 1 ~ 65535

status -- *string*
Optional, The status of a node
Allowed values are **ENABLED** or **DISABLED**

4.2 Response

4.2.1 Response Codes

201 Created

400 Bad Request
The request has wrong data

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.

404 Not Found
The resource does not exist.

502 Bad Gateway
LB backend server returned error

4.3 Examples

Request

```
POST /accounts/{accountId}/loadbalancers/{loadbalancerId}/nodePools/{nodePoolId}/nodes
Content-Type:application/json
Authorization: Basic {Base64-encoded username & password string}
```

```
{
  "server" : [{"href": "http://{api-server}/account/{accountId}/flexcloud/servers/{serverId}", "rel": "related"}],
  "port": "80",
  "status": "ENABLED"
}
```

Response

```
201 Created
Content-Type: application/json; charset=UTF-8
Location : http://{api-server}/account/{accountId}/loadbalancer/{lbId}/nodePools/{nodePoolId}/nodes/{nodeId}
```

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5 Add or update load balancer's health monitor

6 PUT

/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/healthMonitor

This operation adds or modify a load balancer's health monitor

6.1 Request

PUT /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/healthMonitor

6.1.1 Request Parameters

accountId - *string*

The selected account id.

lbId - *string*

The selected loadbalancer id.

nodePoolId - *string*

The selected node pool id.

6.1.2 Request Body

partial update is not supported, need all data to add or update

```
{
  "protocol": "{protocol}",
  "interval": {interval},
  "port": {port},
  "attemptsBeforeActivation": {count},
  "attemptsBeforeDeactivation": {count},
  "uri": "{uri}"
}
```

6.1.2.1 Parameters

protocol - *string*

The protocol to be used by health monitor
Allowed values are **TCP** or **HTTP**

interval - *integer*

The number of seconds between subsequent health monitor check messages

port - *integer*

The port for health monitor to monitor

attemptsBeforeActivation - *integer*

The number of successful health monitor checks allowed before this load balancer is activated

attemptsBeforeDeactivation - *integer*

The number of failed health monitor checks allowed before this load balancer is deactivated

uri - *string*

Optional, http path for monitor, needed only if the protocol is HTTP

6.2 Response

6.2.1 Response Codes

204 No Content

400 Bad Request

The request has wrong data

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.

404 Not Found

The resource does not exist.

6.3 Examples

6.3.1 Successfully update contents of specified load balancer health monitor

Request

```
PUT /accounts/{accountId}/loadbalancers/0001/nodePools/123/healthMonitor
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

```
{
  "protocol": "TCP",
  "interval": 20,
  "port": 80,
  "attemptsBeforeActivation": 3,
  "attemptsBeforeDeactivation": 3
}
```

Response

HTTP/1.1 204 No Content

7 Create Load Balancer

8 POST /accounts/{accountId}/loadbalancers

This operation creates a new load balancer.

8.1 Request

POST /accounts/{accountId}/loadbalancers

8.1.1 Request Parameters

accountId - *string*
The selected account id.

8.1.2 Request Body

```
{
  "region": "{regionTextKey}",
  "displayName": "{lbName}"
}
```

8.1.2.1 Parameters

region - *string*
region TextKey where LB will be created

displayName - *string*
Display name for this load balancer.

8.2 Response

8.2.1 Response Codes

201 Created

400 Bad Request
The request has wrong data

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.

409 Conflict
The resource already exists. (there is already a load balancer with that name or a load balancer already bound to the virtualIp/port combination specified)

8.2.2 Response Headers

Location
Returned with successful 201 response. Contains the new LB URI. The client must use this URI for all subsequent operations with the LB.

8.3 Examples

8.3.1 create a LB

Request

```
POST /accounts/{accountId}/loadbalancers
Content-Type: application/json; Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

```
{
  "region": "AUSTIN",
  "displayName": "Test Load Balancer",
}
```

Response

```
201 Created
Content-Type: application/json; charset=UTF-8
Location : http://{api-server}/account/{accountId}/loadbalancers/{newLbId}
```

8.3.2 Failure while trying to make unauthorized access

Request

```
POST /accounts/{accountId}/loadbalancers
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

```
HTTP/1.1 401 Unauthorized
```

8.3.3 Failure while trying to pass invalid account number

Request

```
POST /accounts/fake/loadbalancers
Content-Type:application/json
```

Charset=UTF-8
Authorization: Basic {wrong credential}

Response

HTTP/1.1 404 Not Found

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

9 Create node pool

10 POST /accounts/{accountId}/loadbalancers/{lbId}/nodePools

This operation creates a new node pool

10.1 Request

POST /accounts/{accountId}/loadbalancers/{lbId}/nodePools

10.1.1 Request Parameters

accountId - *string*
The selected account Id.

lbId - *string*
The selected load balancer Id.

10.1.2 Request Body

```
{
  "displayName": "{name}",
  "port": {port},
  "protocol": "{protocol}",
  "algorithm": "{ROUND_ROBIN or SOURCE_IP}",
  "timeout": {timeout},
}
```

10.1.2.1 Parameters

displayName - *string*
The display name of the node pool.

port - *integer*
The tcp port the load balancer will act on
Allowed range is 1 ~ 65535

protocol - *string*
The protocol to be balanced by this load balancer
Allowed values are **TCP** or **HTTP**. (Note: HTTPS is not supported)

algorithm - *string*
Load balancing algorithm to be used
Allowed values are **ROUND_ROBIN** or **SOURCE_IP**

timeout - *integer*
Load balancer timeout (ex, check, connect timeouts)

10.2 Response

10.2.1 Response Codes

201 Created

400 Bad Request
The request has wrong data

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.

409 Conflict
The resource already exists.

10.2.2 Response Headers

Location
Returned with successful 201 response. Contains the new LB URI. The client must use this URI for all subsequent operations with the LB.

10.3 Examples

Request

```
POST /accounts/{accountId}/loadbalancers/{loadbalancerId}/nodePools
Content-Type: application/json; Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

```
{
  "displayName": "Test Load Balancer",
  "port": 80,
  "protocol": "HTTP",
  "algorithm": "ROUND_ROBIN",
  "timeout": 30,
}
```

Response

```
201 Created
Content-Type: application/json; charset=UTF-8
Location: http://{api-server}/account/{accountId}/loadbalancer/{lbId}/nodePools/{newNodePoolId}
```

11 Create session persistence for a load balancer

12 PUT

/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/sessionPersistence

This operation will add or modify the session persistence of an existing load balancer

12.1 Request

```
PUT /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/sessionPersistence
```

12.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected loadbalancer id.

nodePoolId - *string*
The selected node pool id.

12.1.2 Request Body

```
{  
  "persistenceType": "{type}",  
}
```

12.1.2.1 Parameters

type - *string*
type of session persistence
Allowed value is **HTTP_COOKIE** (currently, only HTTP_COOKIE is supported)

12.2 Response

12.2.1 Response Codes

204 No Content

400 Bad Request
The request has wrong data

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.

404 Not Found
The resource does not exist.

12.3 Examples

12.3.1 Successfully add persistence to a load balancer (whether or not persistence was already enabled)

Request

```
PUT /accounts/{accountId}/loadbalancers/0001/nodePools/123/sessionPersistence  
Content-Type:application/json  
Charset=UTF-8  
Authorization: Basic {Base64-encoded username & password string}
```

```
{  
  "persistenceType": "HTTP_COOKIE"  
}
```

Response

```
HTTP/1.1 204 No Content
```

13 Delete a load balancer's health monitor

14 DELETE

/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/healthMonitor

This operation deletes any health monitor currently bound to the specified load balancer.

14.1 Request

```
DELETE /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/healthMonitor
```

14.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected loadbalancer id.

nodePoolId - *string*
The selected node pool id.

14.2 Response

14.2.1 Response Codes

204 No Content

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.

404 Not Found
The resource does not exist.

14.3 Examples

14.3.1 Successfully delete the specified load balancer's health monitor

Request

```
DELETE /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/healthMonitor
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

```
HTTP/1.1 204 No Content
```

15 Delete a load balancer's session persistence

16 DELETE

/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/sessionPersistence

This operation deletes session persistence from a node balancer.

16.1 Request

```
DELETE /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/sessionPersistence
```

16.1.1 Request Parameters

accountId - *string*

The selected account id.

lbId - *string*

The selected loadbalancer id.

nodePoolId - *string*

The selected node pool id.

16.2 Response

16.2.1 Response Codes

204 No Content

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.

404 Not Found

The resource does not exist.

16.3 Examples

16.3.1 Successfully delete the specified load balancer's persistence

Request

```
DELETE /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/sessionPersistence
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

```
HTTP/1.1 204 No Content
```

17 Delete a node

This operation will delete a node from a node pool.

18 DELETE

/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes/{nodeId}

This operation deletes a node from a node balancer.

18.1 Request

```
DELETE /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes/{nodeId}
```

18.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected loadbalancer id.

nodePoolId - *string*
The selected node pool id.

nodeId -- *string*
The selected node id.

18.2 Response

18.2.1 Response Codes

204 No Content

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.

404 Not Found
The resource does not exist.

18.3 Examples

18.3.1 Successfully delete the specified load balancer node

Request

```
DELETE /{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes/{lbNodeId}
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

```
HTTP/1.1 204 No Content
```

19 Delete a node from a load balancer

This operation will delete a node from a node balancer.

20 DELETE /accounts/{accountId}/loadbalancers/{lbId}/nodes/{lbNodeId}

This operation will delete a node from a node balancer.

20.1 Request

20.1.1 URI Parameters

accountId - *string*
The selected account Id.

lbId - *string*
The unique load balancer identifier

lbNodeId - *string*
the unique identifier of the node to delete

20.2 Response

20.2.1 Response Codes

204 No Content

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.

404 Not Found
The resource does not exist.

20.3 Examples

20.3.1 Successfully delete the specified load balancer node

Request

```
DELETE /{accountId}/loadbalancers/{lbId}/nodes/{lbNodeId}
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response

```
HTTP/1.1 204 No Content
```

20.3.2 Failure while trying to delete a non-existent load balancer node

Request

```
DELETE /accounts/{accountId}/loadbalancers/0001/nodes/fake_load_balancer_node_id
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response

```
HTTP/1.1 404 Not Found
```

20.3.3 Failure while trying to delete a node from a non-existent load balancer

Request

```
DELETE /accounts/{accountId}/loadbalancers/fake_load_balancer_id/nodes/1732
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response

```
HTTP/1.1 404 Not Found
```

20.3.4 Failure while trying to make unauthorized access

Request

```
DELETE /accounts/{accountId}/loadbalancers/0001/nodes/1723
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded fake_authentication_string
```

Response

```
HTTP/1.1 401 Unauthorized
```

20.3.5 Failure while trying to pass invalid account number

Request

```
DELETE /accounts/fake/loadbalancers/0001/nodes/7234
Content-Type:application/json
Charset=UTF-8
```

Authorization:Base64-encoded fake_authentication_string

Response

HTTP/1.1 404 Not Found

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

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21 Delete load balancer

22 DELETE /accounts/{accountId}/loadbalancers/{lbId}

This operation deletes the specified load balancer.

22.1 Request

```
DELETE /accounts/{accountId}/loadbalancers/{lbId}
```

22.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected load balancer id.

22.2 Response

22.2.1 Response Codes

204 No Content

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.

404 Not Found

The resource does not exist.

22.3 Examples

22.3.1 Successfully delete the specified load balancer

Request

```
DELETE /accounts/{accountId}/loadbalancers/0001
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

```
HTTP/1.1 204 No Content
```

23 Delete node pool

24 DELETE /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}

This operation deletes the specified node pool

24.1 Request

```
DELETE /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}
```

24.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected loadbalancer id.

nodePoolId - *string*
The selected node pool id.

24.2 Response

24.2.1 Response Codes

204 No Content

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.

404 Not Found
The resource does not exist.

24.3 Examples

24.3.1 Successfully delete the specified load balancer

Request

```
DELETE /accounts/{accountId}/loadbalancers/0001/nodePools/1234
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

```
HTTP/1.1 204 No Content
```

25 Edit a load balancer

26 PUT /accounts/{accountId}/loadbalancers/{lbId}

This operation updates the specified load balancer attributes.

26.1 Request

```
PUT /accounts/{accountId}/loadbalancers/{lbId}
```

26.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected load balancer id.

26.1.2 Request Body

```
{  
  "displayName": "{lbDisplayName}"  
}
```

26.1.2.1 Parameters

displayName - *string*
new name for this load balancer

26.2 Response

26.2.1 Response Codes

204 No Content

400 Bad Request
The request has wrong data

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.

404 Not Found
The resource does not exist.

26.3 Examples

26.3.1 Successfully edit details for specified load balancer

Request

```
PUT /accounts/{accountId}/loadbalancers/0001  
Content-Type:application/json  
Charset=UTF-8  
Authorization: Basic {Base64-encoded username & password string}
```

```
{  
  "displayName": "New display name"  
}
```

Response

```
HTTP/1.1 204 OK
```

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27 Edit a node pool

28 PUT /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}

This operation updates name and/or algorithm of the specified node pool

28.1 Request

```
PUT /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}
```

28.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected loadbalancer id.

nodePoolId - *string*
The selected node pool id.

28.1.2 Request Body

partial update is supported

```
{
  "displayName": "{lbDisplayName}",
  "port": {nodePoolPort},
  "algorithm": "{lbAlgorithm}",
  "timeout": {lbTimeout},
  "protocol": "{lbProtocol}"
}
```

28.1.2.1 Parameters

displayName - *string*
Optional, The display name of the node pool.

port - *integer*
Optional, The tcp port the load balancer will act on
Allowed range is 1 ~ 65535

algorithm - *string*
Optional, Load balancing algorithm to be used
Allowed values are **ROUND_ROBIN** or **SOURCE_IP**

timeout - *integer*
Optional, Load balancer timeout (ex, check, connect timeouts)

protocol - *string*
Optional, The protocol to be balanced by this load balancer
Allowed values are **TCP** or **HTTP**. (Note: HTTPS is not supported)

28.2 Response

28.2.1 Response Codes

204 No Content

400 Bad Request
The request has wrong data

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.

404 Not Found
The resource does not exist.

28.3 Examples

28.3.1 Successfully edit partial details of the specified node pool

Request

```
PUT /accounts/{accountId}/loadbalancers/0001/nodePools/123
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

```
{
  "displayName": "New display name",
  "algorithm": "SOURCE_IP"
}
```

Response

```
HTTP/1.1 204 OK
```

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29 Get a Load Balancer

30 GET /accounts/{accountId}/loadbalancers/{lbId}

This operation lists the details for the specified load balancer

30.1 Request

```
GET /accounts/{accountId}/loadbalancers/{lbId}
```

30.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected load balancer id.

30.2 Response

30.2.1 Response Codes

- 200 OK
- 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.
- 404 Not Found
The resource does not exist.

30.2.2 Response Body

```
{
  "id": "{lbId}",
  "displayName": "{lbName}",
  "virtualIp": "{lbVirtualIp}",
  "region": "{regionTextKey}",
  "nodePools": [{"href": "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodepools", "rel": "related"}],
  "links": [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}", "rel": "self"}]
}
```

30.2.2.1 Parameters

- id - *string*
The id of this Load Balancer.
- displayName - *string*
The display name of the load balancer
- region - *string*
The region which this vm belongs to
- virtualIp - *string*
The public-facing ip address to be used for load-balancing (either an IPv4 or IPv6 address)
- nodePools - *list*
[Hypermedia](#) to a resource of the node pools under this load balancer
- links - *list*
[Hypermedia](#) for this resource. Links to self.

30.3 Examples

30.3.1 Successfully list details for specified load balancer

Request

```
GET /accounts/{accountId}/loadbalancers/123
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

```
HTTP/1.1 200 OK

{
  "id" : "123",
  "displayName" : "test Load Balancer",
  "region" : "region-A",
  "virtualIps" : "2001:cdba:0000:0000:0000:0000:3257:9652",
  "nodePools": [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/123/nodepools", "rel": "related"}],
  "links" : [{"href" : "http://{api-server}/accounts/{accountId}/loadbalancers/123", "rel" : "self"}]
}
```

30.3.2 Failure while trying to request details for a load balancer that does not exist

Request

```
GET /accounts/{accountId}/loadbalancers/{fake_load_balancer_id}
Content-Type:application/json
Charset=UTF-8
```

Authorization: Basic {Base64-encoded username & password string}

Response

HTTP/1.1 404 Not Found

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

31 Get a load balancer health monitor

32 GET

/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/healthMonitor

This operation lists the details for the specified health monitor

32.1 Request

```
GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/healthMonitor
```

32.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected loadbalancer id.

nodePoolId - *string*
The selected node pool id.

32.2 Response

32.2.1 Response Codes

- 200 OK
- 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.
- 404 Not Found
The resource does not exist.

32.2.2 Response Body

```
{
  "protocol": "{protocol}",
  "interval": {interval},
  "port": {port},
  "attemptsBeforeActivation": {count},
  "attemptsBeforeDeactivation": {count},
  "uri": "{uri}",
  "links": [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/healthMonitor", "rel": "self"}]
}
```

32.2.2.1 Parameters

- protocol - *string*
The protocol to be used by health monitor
Allowed values are **TCP** or **HTTP**
- interval - *integer*
The number of seconds between subsequent health monitor check messages
- port - *integer*
The port for health monitor to monitor
- attemptsBeforeActivation - *integer*
The number of successful health monitor checks allowed before this load balancer is activated
- attemptsBeforeDeactivation - *integer*
The number of failed health monitor checks allowed before this load balancer is deactivated
- uri - *string*
Optional, http path for monitor, needed only if the protocol is HTTP
- links - *list*
[Hypermedia](#) for this resource. Links to self.

32.3 Examples

32.3.1 Successfully list details for specified load balancer healthmonitor

Request

```
GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/healthMonitor
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

```
HTTP/1.1 200 OK

{
  "protocol": "HTTP",
  "interval": 60,
  "port": 80,
  "attemptsBeforeActivation": 5,
```



```
"attemptsBeforeDeactivation": 3,  
"uri": "/check.php",  
"links" : [{"href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/healthMonitor", "rel" : "self"}  
}
```

33 Get a load balancer's session persistence

34 GET

/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/sessionPersistence

This operation lists the details for the specified session persistence

34.1 Request

```
GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/sessionPersistence
```

34.1.1 Request Parameters

accountId - *string*

The selected account id.

lbId - *string*

The selected loadbalancer id.

nodePoolId - *string*

The selected node pool id.

34.2 Response

34.2.1 Response Codes

200 OK

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.

404 Not Found

The resource does not exist.

34.2.2 Response Body

```
{
  "persistenceType": "{type}",
  "links": [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/sessionPersistence", "rel": "self"}]
}
```

34.2.2.1 Parameters

type - *string*

type of session persistence

Allowed value is **HTTP_COOKIE** (currently, only HTTP_COOKIE is supported)

links - *list*

[Hypermedia](#) for this resource. Links to self.

34.3 Examples

34.3.1 Successfully list details for specified load balancer session persistence

Request

```
GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/sessionPersistence
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

HTTP/1.1 200 OK

```
{
  "persistenceType": "HTTP_COOKIE"
  "links" : [{"href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/sessionPersistence", "rel" : "self"}]
}
```

35 Get a node pool

36 GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}

This operation lists the details for the specified node pool

36.1 Request

GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}

36.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected load balancer id.

nodePoolId - *string*
The selected node pool id.

36.2 Response

36.2.1 Response Codes

- 200 OK
- 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.
- 404 Not Found
The resource does not exist.

36.2.2 Response Body

```
{
  "id": "{nodePoolId}",
  "displayName": "{lbName}",
  "protocol": "{lbProtocol}",
  "port": {lbPort},
  "algorithm": "{lbAlgorithm}",
  "timeout": {timeout},
  "nodes": [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes", "rel": "related"}],
  "sessionPersistence": [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/sessionpersistence"},
  "healthMonitor": [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/healthmonitor", "rel": "self"}],
  "links": [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}", "rel": "self"}]
}
```

36.2.2.1 Parameters

id - *string*
The id of this node pool.

displayName - *string*
The display name of the node pool.

protocol - *string*
The protocol to be balanced by this load balancer
Allowed values are **TCP** or **HTTP**. (Note: HTTPS is not supported)

port - *integer*
The tcp port the load balancer will act on
Allowed range is 1 ~ 65535

algorithm - *string*
Load balancing algorithm to be used
Allowed values are **ROUND_ROBIN** or **SOURCE_IP**

timeout - *integer*
Load balancer timeout (ex, check, connect timeouts)

nodes - *list*
[Hypermedia](#) to a resource of the nodes under this node pool

sessionPersistence - *list*
Optional, [Hypermedia](#) to a resource of the session persistence under this node pool
if node pool has no sessionPersistence, this will not be returned

healthMonitor - *list*
Optional, [Hypermedia](#) to a resource of the health monitor under this node pool
if node pool has no healthMonitor, this will not be returned

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

36.3 Examples

36.3.1 Successfully list details for specified load balancer

Request

```
GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/123
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

HTTP/1.1 200 OK

```
{
  "id" : "123",
  "displayName" : "test Load Balancer",
  "protocol" : "HTTP",
  "port" : 80,
  "algorithm" : "ROUND_ROBIN",
  "timeout" : 30,
  "nodes" : [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/123/nodes", "rel": "related"}],
  "sessionPersistence" : [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/123/sessionpersistence", "rel": "related"}],
  "healthMonitor" : [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/123/healthmonitor", "rel": "related"}],
  "links" : [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/123", "rel": "self"}]
}
```

36.3.2 Failure while trying to request details for a node pool that does not exist

Request

```
GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{fake-node-pool-id}
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

HTTP/1.1 404 Not Found

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

37 Get one node

38 GET

/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes/{nodeId}

This operation retrieves all the information about a single node from a given load balancer.

38.1 Request

```
GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes/{nodeId}
```

38.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected loadbalancer id.

nodePoolId - *string*
The selected node pool id.

nodeId -- *string*
The selected node id.

38.2 Response

38.2.1 Response Codes

- 200 OK
- 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.
- 404 Not Found
The resource does not exist.

38.2.2 Response Body

```
{
  "id": "{lbNodeId}",
  "server": [{"href": "{serverUrl}", "rel": "related"}],
  "port": "{lbNodePort}",
  "status": "{lbStatus}",
  "links": [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes/{lbNodeId}", "rel": "self"}
}
```

38.2.2.1 Parameters

id - *string*
The id of node

server - *list*
Hypermedia to a resource of the server node hosted by Hostway
it could be flexcloud servers virtual machine URL (<http://{api-server}/account/{accountId}/flexcloud/servers/{serverId}>)

port - *integer*
The ports on node that LB forward traffic to
Allowed range is 1 ~ 65535

status - *string*
The status of a node
Allowed values are **ENABLED** or **DISABLED**

38.3 Examples

38.3.1 Successfully list details for specified load balancer node

Request

```
GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes/{nodeId}
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

```
HTTP/1.1 200 OK

{
  "id" : "1401",
  "server" : [{"href": "http://{api-server}/account/{accountId}/flexcloud/servers/{serverId}", "rel": "related"}],
  "port" : "80",
  "status" : "ENABLED",
  "links" : [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/node/{nodeId}", "rel" : "self"}
}
```


39 Get one node from a given load balancer

40 GET /accounts/{accountId}/loadbalancers/{lbld}/nodes/{lbNodeid}

This operation will retrieve all the information about a single node from a given load balancer.

40.1 Request

40.1.1 URI Parameters

accountId - *string*

The selected account Id.

lbld

The unique identifier of the load balancer.

lbNodeid -- *string*

The specific node to be retrieved.

40.2 Response

40.2.1 Response Codes

200 OK

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.

404 Not Found

The resource does not exist.

40.2.2 Response Body

```
{
  "id" : "{lbNodeId}",
  "serverRef" : "{lbNodeServerRef}",
  "port" : "{lbNodePort}",
  "condition" : "{lbCondition}",
}
```

40.2.2.1 Parameters

id - *string*

unique node identifier for node <n>

serverRef - *string*

URL of this node

port -- *integer*

The tcp port on node <n>'s server that will be used for load balancing

condition -- *string*

either ENABLED or DISABLED

40.3 Examples

40.3.1 Successfully list details for specified load balancer node

Request

```
GET /accounts/{accountId}/loadbalancers/0001/nodes/{nodeId}
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response

HTTP/1.1 200 OK

```
{
  "id" : "1401",
  "serverRef" : "http://blah.com/accounts/accountId/flexcloud/servers/sererId",
  "port" : "80",
  "condition" : "ENABLED",
}
```

40.3.2 Failure while trying to request details for a load balancer node from a non-existent load balancer

Request

```
GET /accounts/{accountId}/loadbalancers/fake_load_balancer_id/nodes/1401
Content-Type:application/json
Charset=UTF-8
Authorization:Base64-encoded username & password string
```

Response

HTTP/1.1 404 Not Found

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

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

40.3.3 Failure while trying to request details for a load balancer node that does not exist

Request

```
GET /accounts/{accountId}/loadbalancers/0001/nodes/fake_node_id  
Content-Type:application/json  
Charset=UTF-8  
Authorization:Base64-encoded username & password string
```

Response

HTTP/1.1 404 Not Found

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

40.3.4 Failure while trying to make unauthorized access

Request

```
GET /accounts/{accountId}/loadbalancers/0001/nodes/1401  
Content-Type:application/json  
Charset=UTF-8  
Authorization:Base64-encoded fake_authentication_string
```

Response

HTTP/1.1 401 Unauthorized

40.3.5 Failure while trying to pass invalid account number

Request

```
GET /accounts/fake/loadbalancers/0001/nodes/1401  
Content-Type:application/json  
Charset=UTF-8  
Authorization:Base64-encoded fake_authentication_string
```

Response

```
HTTP/1.1 404 Not Found  
{  
  "itemNotFound" : {  
    "message": "Resource not found",  
    "code": 404,  
    "details": "",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efe16e83bf"  
  }  
}
```

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41 List Load Balancers

42 GET /accounts/{accountId}/loadbalancers

This operation lists existing load balancers.

42.1 Request

GET /accounts/{accountId}/loadbalancers

42.1.1 Request Parameters

accountId - *string*
The selected account id.

42.1.2 URI Parameters

filterVirtualIp - *string*
Optional, only loadbalancers with specified virtualIp will be returned

filterRegion - *string*
Optional, only loadbalancers in the specified region will be returned

sortField - *string*
Optional. Specifies a field upon which to sort the data. If not set no sorting is performed.
Allowed values are **region**, **displayName**, **virtualIp**

sortOrder - *string*
Optional. Specifies the order in which the data is sorted. If not set no sorting is performed.
Allowed values are **asc**, **desc**. If sortField is not set, defaults to **asc** otherwise.

pageSize - *integer*
Optional. Specifies the number of records per page. Default 10, Max 100.

page - *integer*
Optional. Specifies the page to return in paginated response. Default is 1.

42.2 Response

42.2.1 Response Codes

- 200 OK
- 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.
- 404 Not Found
The resource does not exist.

42.2.2 Response Body

```
{
  "list": [
    {
      "id": "{lbId}",
      "displayName": "{name}",
      "region": "{region-textkey}",
      "virtualIp": "{ipaddr}",
      "links": [{"href": "https://{api-server}/accounts/{accountId}/loadbalancers/{lbId}", "rel": "self"}]
    }
  ],
  "links": [
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers?pageSize={pageSize}&page={page}",
      "rel": "self"
    },
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers?pageSize={pageSize}&page={page}",
      "rel": "first"
    },
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers?pageSize={pageSize}&page={page}",
      "rel": "previous"
    },
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers?pageSize={pageSize}&page={page}",
      "rel": "next"
    },
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers?pageSize={pageSize}&page={page}",
      "rel": "last"
    }
  ]
}
```

42.2.2.1 Parameters

list
[Hypermedia](#) for this load balancer resource. Links to the load balancer

links - *list*

42.3 Examples

42.3.1 Successfully list load balancers w/o pagination

Request

```
GET /accounts/{accountId}/loadbalancers
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

HTTP/1.1 200 OK

```
{
  "list" : [
    {
      "id": "743",
      "displayName": "test-lb-name",
      "region": "ote.2008.tampa",
      "virtualIp": "10.140.141.88",
      "links" : [{"href" : "https://{api-server}/accounts/{accountId}/loadbalancers/743", "rel" : "self"}]
    },
    ...
  ],
  "links" : [
    {
      "href" : "http://{api-server}/account/{accountId}/loadbalancers",
      "rel" : "self"
    }
  ]
}
```

42.3.2 Successfully list load balancers with pagination

Request

```
GET /accounts/{accountId}/loadbalancers?page=2&pageSize=3
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

Response

HTTP/1.1 200 OK

```
{
  "list" : [
    {
      "id": "{lbId}",
      "virtualIp": "10.140.141.88",
      "displayName": "test-lb-name",
      "links" : [{"href" : "https://{api-server}/accounts/{accountId}/loadbalancers/{lbId}", "rel" : "self"}]
    },
    ...
  ],
  "links" : [
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers?page=2&pageSize=3",
      "rel" : "self"
    },
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers?page=1&pageSize=3",
      "rel" : "first"
    },
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers?page=1&pageSize=3",
      "rel" : "previous"
    },
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers?page=3&pageSize=3",
      "rel" : "next"
    },
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers?page=3&pageSize=3",
      "rel" : "last"
    }
  ]
}
```

43 List node pools

44 GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools

This operation lists existing node pools.

44.1 Request

GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools

44.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected load balancer id.

44.1.2 URI Parameters

pageSize - *integer*
Optional. Specifies the number of records per page. Default 10, Max 100.

page - *integer*
Optional. Specifies the page to return in paginated response. Default is 1.

44.2 Response

44.2.1 Response Codes

- 200 OK
- 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.
- 404 Not Found
The resource does not exist.

44.2.2 Response Body

```
{
  "list": [
    {
      "id": "{lbId}",
      "displayName": "{name}",
      "protocol": "{lbProtocol}",
      "port": {lbPort},
      "algorithm": "{lbAlgorithm}",
      "timeout": {timeout},
      "links": [{"href": "https://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}", "rel": "self"}]
    }
  ],
  "links": [
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodePools?pageSize={pageSize}&page={page}",
      "rel": "self"
    },
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodePools?pageSize={pageSize}&page={page}",
      "rel": "first"
    },
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodePools?pageSize={pageSize}&page={page}",
      "rel": "previous"
    },
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodePools?pageSize={pageSize}&page={page}",
      "rel": "next"
    },
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodePools?pageSize={pageSize}&page={page}",
      "rel": "last"
    }
  ]
}
```

44.2.2.1 Parameters

list
[Hypermedia](#) for this load balancer resource. Links to the node pools

links - *list*
[Hypermedia](#) Link to self and other resources relevant to the lists

44.3 Examples

44.3.1 Successfully list node pools

Request

GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools
Content-Type:application/json
Charset=UTF-8

Authorization: Basic {Base64-encoded username & password string}

Response

HTTP/1.1 200 OK

```
{
  "list" : [
    {
      "id": "743",
      "displayName": "test-lb-80-nodepools",
      "protocol" : "TCP",
      "port" : 22,
      "algorithm" : "SOURCE_IP",
      "timeout": 10,
      "links" : [{"href" : "https://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/743", "rel" : "self"}]
    }
  ],
  "links" : [
    {
      "href" : "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodePools",
      "rel" : "self"
    }
  ]
}
```

44.3.2 Successfully list node pools with pagination

Request

GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools?page=2&pageSize=3
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}

Response

HTTP/1.1 200 OK

```
{
  "list" : [
    {
      "id": "743",
      "displayName": "test-lb-80-nodepools",
      "protocol" : "TCP",
      "port" : 22,
      "algorithm" : "SOURCE_IP",
      "timeout": 10,
      "links" : [{"href" : "https://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/743", "rel" : "self"}]
    },
    ...
  ],
  "links" : [
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools?page=2&pageSize=3",
      "rel" : "self"
    },
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools?page=1&pageSize=3",
      "rel" : "first"
    },
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools?page=1&pageSize=3",
      "rel" : "previous"
    },
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools?page=3&pageSize=3",
      "rel" : "next"
    },
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools?page=3&pageSize=3",
      "rel" : "last"
    }
  ]
}
```

45 List nodes in a node pool

46 GET

/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes

This operation lists existing node pools.

46.1 Request

GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes

46.1.1 Request Parameters

accountId - *string*

The selected account id.

lbId - *string*

The selected load balancer id.

nodePoolId - *string*

The selected node pool id.

46.1.2 URI Parameters

pageSize - *integer*

Optional. Specifies the number of records per page. Default 10, Max 100.

page - *integer*

Optional. Specifies the page to return in paginated response. Default is 1.

46.2 Response

46.2.1 Response Codes

200 OK

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.

404 Not Found

The resource does not exist.

46.2.2 Response Body

```
{
  "list": [
    {
      "id": "{lbNodeId}",
      "port": "{lbNodePort}",
      "status": "{lbStatus}",
      "links": [{"href": "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes/{lbNodeId}", "rel": "self"}]
    }
  ],
  "links": [
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes?pageSize={pageSize}&page={page}",
      "rel": "self"
    },
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes?pageSize={pageSize}&page={page}&page=1",
      "rel": "first"
    },
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes?pageSize={pageSize}&page={page}&page={page}-1",
      "rel": "previous"
    },
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes?pageSize={pageSize}&page={page}&page={page}+1",
      "rel": "next"
    },
    {
      "href": "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes?pageSize={pageSize}&page={page}&page={page}+1",
      "rel": "last"
    }
  ]
}
```

46.2.2.1 Parameters

list

[Hypermedia](#) for this load balancer resource. Links to the node pools

links - *list*

[Hypermedia](#) Link to self and other resources relevant to the lists

46.3 Examples

46.3.1 Successfully list node pools

Request

GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes

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

Response

HTTP/1.1 200 OK

```
{
  "list" : [
    {
      "id" : "1401",
      "port": "80",
      "status" : "ENABLED",
      "links" : [{"href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes/{nodeId}", "rel" : "self"}],
    },
    {
      "href" : "http://{api-server}/account/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes",
      "rel" : "self"
    }
  ]
}
```

46.3.2 Successfully list node pools with pagination

Request

GET /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes?page=2&pageSize=3
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}

Response

HTTP/1.1 200 OK

```
{
  "list" : [
    {
      "id" : "1401",
      "port": "80",
      "status" : "ENABLED",
      "links" : [{"href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes/{nodeId}", "rel" : "self"}],
    },
    ...
  ],
  "links" : [
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes?page=2&pageSize=3",
      "rel" : "self"
    },
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes?page=1&pageSize=3",
      "rel" : "first"
    },
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes?page=1&pageSize=3",
      "rel" : "previous"
    },
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes?page=3&pageSize=3",
      "rel" : "next"
    },
    {
      "href" : "http://{api-server}/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes?page=3&pageSize=3",
      "rel" : "last"
    }
  ]
}
```

47 LoadBalancer

47.1 Load Balancer

A Load balancer distributes traffic among different nodes. You have the ability to configure your load balancer as required. A Load balancer has a single public-facing virtual IP Address and multiple ports on one side and 2 or more nodes on the other side per loadbalancer port: traffic into the virtual IP and port may be delivered to the IP Address of any of the contained nodes. The reverse mapping occurs for outbound traffic. You can have multiple ports on a single virtual IP but if you need to provide load balancing for more than one virtual IP address, you must create multiple load balancers.

47.2 Contents

- 1 Load Balancer
- 2 Load Balancer Management
- 3 Load Balancer Node Pool Management
- 4 Load Balancer Node Management
- 5 Load Balancer Health Monitor Management
- 6 Load Balancer Session Persistence Management
- 7 Alternative URI /loadbalancers

47.3 Load Balancer Management

- GET /accounts/{accountId}/loadbalancers - List Load Balancer
- GET /accounts/{accountId}/loadbalancers/{lbid} - Get Load Balancer
- POST /accounts/{accountId}/loadbalancers - Create Load Balancer
- PUT /accounts/{accountId}/loadbalancers/{lbid} - Edit a load balancer
- DELETE /accounts/{accountId}/loadbalancers/{lbid} - Delete Load Balancer

47.4 Load Balancer Node Pool Management

- GET /accounts/{accountId}/loadbalancers/{lbid}/nodePools - List node pools
- GET /accounts/{accountId}/loadbalancers/{lbid}/nodePools/{nodePoolId} - Get a node pool
- POST /accounts/{accountId}/loadbalancers/{lbid}/nodePools - Create node pool
- PUT /accounts/{accountId}/loadbalancers/{lbid}/nodePools/{nodePoolId} - Edit a node pool
- DELETE /accounts/{accountId}/loadbalancers/{lbid}/nodePools/{nodePoolId} - Delete node pool

47.5 Load Balancer Node Management

- GET /accounts/{accountId}/loadbalancers/{lbid}/nodepools/{nodePoolId}/nodes - List nodes in a node pool
- GET /accounts/{accountId}/loadbalancers/{lbid}/nodepools/{nodePoolId}/nodes/{nodeId} - Get one node in a node pool
- POST /accounts/{accountId}/loadbalancers/{lbid}/nodepools/{nodePoolId}/nodes - Add a node to a node pool
- PUT /accounts/{accountId}/loadbalancers/{lbid}/nodepools/{nodePoolId}/nodes/{nodeId} - Update a single node in a node pool
- DELETE /accounts/{accountId}/loadbalancers/{lbid}/nodepools/{nodePoolId}/nodes/{nodeId} - Delete a node from a node pool

47.6 Load Balancer Health Monitor Management

- GET /accounts/{accountId}/loadbalancers/{lbid}/nodepools/{nodePoolId}/healthmonitor - Get a load balancer's health monitor
- PUT /accounts/{accountId}/loadbalancers/{lbid}/nodepools/{nodePoolId}/healthmonitor - Add or update load balancer's health monitor
- DELETE /accounts/{accountId}/loadbalancers/{lbid}/nodepools/{nodePoolId}/healthmonitor - Delete a load balancer's health monitor

47.7 Load Balancer Session Persistence Management

- GET /accounts/{accountId}/loadbalancers/{lbid}/nodepools/{nodePoolId}/sessionpersistence - Get a load balancer's sessionpersistence
- PUT /accounts/{accountId}/loadbalancers/{lbid}/nodepools/{nodePoolId}/sessionpersistence - Create session persistence for a load balancer
- DELETE /accounts/{accountId}/loadbalancers/{lbid}/nodepools/{nodePoolId}/sessionpersistence - Delete a load balancer's sessionpersistence

47.8 Alternative URI /loadbalancers

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 /loadbalancers/...
```

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48 Update a node

This operation will update the contents of a load balancer node.

49 PUT

/accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes/{nodeId}

This operation updates node attributes.

49.1 Request

PUT /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodePoolId}/nodes/{nodeId}

49.1.1 Request Parameters

accountId - *string*
The selected account id.

lbId - *string*
The selected loadbalancer id.

nodePoolId - *string*
The selected node pool id.

nodeId -- *string*
The selected node id.

49.1.2 Request Body

```
{
  "status": "{status}",
}
```

49.1.2.1 Parameters

status - *string*
The status of a node
Allowed values are **ENABLED** or **DISABLED**

49.2 Response

49.2.1 Response Codes

204 No Content

400 Bad Request
The request has wrong data

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.

404 Not Found
The resource does not exist.

502 Bad Gateway
LB backend server returned error

49.3 Examples

49.3.1 Successfully update contents of specified load balancer node

Request

```
PUT /accounts/{accountId}/loadbalancers/{lbId}/nodePools/{nodepoolId}/nodes/{nodeId}
Content-Type:application/json
Charset=UTF-8
Authorization: Basic {Base64-encoded username & password string}
```

```
{
  "status": "ENABLED"
}
```

Response

```
HTTP/1.1 204 NoContent
```

50 Update a single load balancer node

This operation will update the contents of a load balancer node.

51 PUT /accounts/{accountId}/loadbalancers/{lbld}/nodes/{nodeId}

This operation will update node attributes

51.1 Request

51.1.1 URI Parameters

accountId - *string*
The selected account Id

lbld
The unique identifier of the load balancer.

nodeId -- *string*
unique identifier of the load balancer node to modify

51.1.2 Request Body

```
{  
  "condition" : "{condition}",  
}
```

51.1.2.1 Parameters

condition - *string*
new condition of the node (ENABLED or DISABLED)

51.2 Response

51.2.1 Response Codes

204 NoContent

400 BadRequest

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.

404 Not Found

The resource does not exist.

502 Bad Gateway

LB backend server returned error

51.3 Examples

51.3.1 Successfully update contents of specified load balancer node

Request

```
PUT /accounts/{accountId}/loadbalancers/0001/nodes/1234  
Content-Type:application/json  
Charset=UTF-8  
Authorization:Base64-encoded username & password string
```

```
{  
  "condition":"ENABLED"  
}
```

Response

```
HTTP/1.1 204 NoContent
```

51.3.2 Failure while trying to update a node from a load balancer that does not exist

Request

```
PUT /accounts/{accountId}/loadbalancers/fake_loadBalancerId/nodes/1234  
Content-Type:application/json  
Charset=UTF-8  
Authorization:Base64-encoded username & password string
```

Response

```
HTTP/1.1 404 Not Found
```

```
{  
  "itemNotFound": {  
    "message": "Resource not found",  
    "code": 404,  
    "details": "",  
    "errorid": "59e0b3dd-2173-432a-8ff5-60efel6e83bf"  
  }  
}
```

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