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How to configure a Load Balancer in mCloud

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mCloud offers a basic software layer 4 load balancer that runs from within our software-defined networking layer. This guide details the steps required to configure a load balancer in the Cloud Dashboard and offers an explanation of its capabilities and limitations.

Please note that to access this service, you will need to request access from the Micron21 Support Team.

Capabilities:

mCloud LBaaS can handle the following types of traffic:

- TCP/UDP
- Source IP/Port load balancing

Limitations:

mCloud LBaaS is unable to be configured with the following configurations

- Layer 7 load balancing (HTTP, HTTPS etc)
- Round robin or least connection load balancing

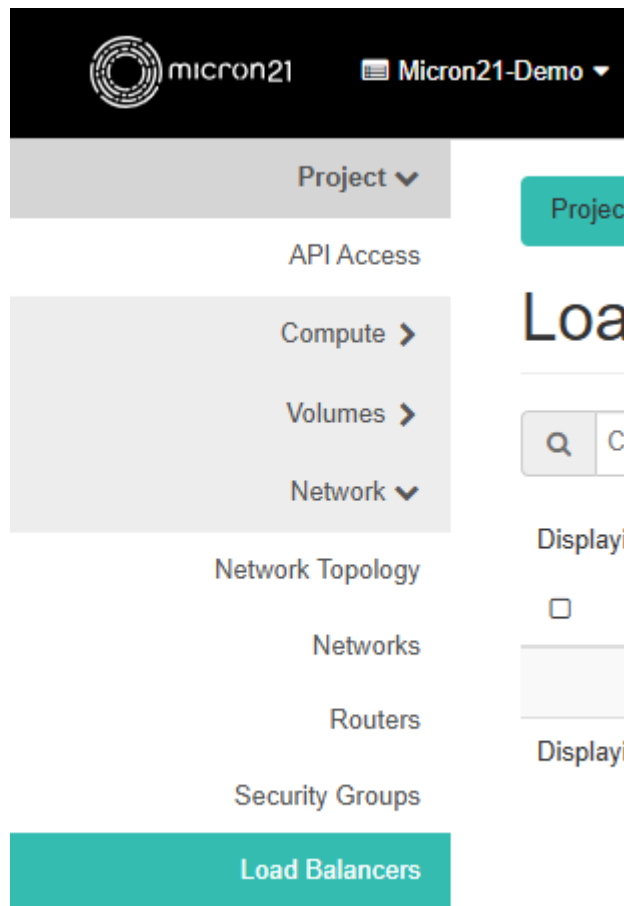
Prerequisites:

Before you begin to configure the load balancer via mCloud you will need to ensure you have configured the following:

- The internal network has already been created
- Backend VMs created and connected to an internal network
- Correct security group assigned to VMs for their service
- You have contacted the m21 support team for permission to create Load Balancers

Method:

1. Log into mCloud at <https://mcloud.micron21.com/>
2. Navigate to Project > Network > Load Balancers



1. Floating IPs

3. Click "+ Create Load Balancer"

4. Enter the following details as required:

1. Name:
2. Internal subnet
3. IP Address (Optional, mCloud will choose automatically if left blank)
4. Description (Optional)
5. Leave Availability Zone and Flavor blank, and click Next

Create Load Balancer

Load Balancer Details

Listener Details *

Pool Details *

Pool Members

Monitor Details *

Provide the details for the load balancer.

Name

Demo-Loadbalancer

IP address

192.168.44.235

Description

Availability Zone

Flavor

Subnet *

Demo-Internal-Network: 192.168.44.0/24 (Demo-Internal-Subnet)

Admin State Up

Yes

No

Cancel

< Back

Next >

Create Load Balancer

1.

5. On the Listener Details tab, enter the following as required:

1. Name
2. Description (Optional)
3. Protocol (TCP or UDP only)
4. Port
5. Allowed Cidrs (Optional)
6. Leave other values at default and click Next

Create Load Balancer

Load Balancer Details

Listener Details

Pool Details *

Pool Members

Monitor Details *

Provide the details for the listener.

Create Listener

Yes

No

Name

Demo-Listener

Description

Protocol *

TCP

Port *

80

Client Data Timeout

50000

TCP Inspect Timeout

0

Member Connect Timeout

5000

Member Data Timeout

50000

Connection Limit *

-1

Allowed Cidrs

0.0.0.0/0

Admin State Up

Yes

No

Cancel

< Back

Next >

Create Load Balancer

1.

6. On the Pool Details tab, enter the following:

1. Name
2. Description (Optional)
3. Algorithm (SOURCE_IP_PORT only)
4. TLS Enabled set to NO
5. Leave other values at default and click Next

Create Load Balancer

Provide the details for the pool.

Load Balancer Details

Listener Details

Pool Details

Pool Members

Monitor Details *

Create Pool

Yes No

Name

Demo-Pool

Description

Algorithm *

SOURCE_IP_PORT

Session Persistence

None

TLS Enabled

Yes No

Admin State Up

Yes No

1.

7. On the Pool Member tab, click 'add' for each backend server you'd like associated, then enter their service port and weight (if applicable) then click Next

Create Load Balancer

Add members to the load balancer pool.

Load Balancer Details

Listener Details

Pool Details

Pool Members

Monitor Details *

Allocated Members 2

IP Address *	Subnet *	Port *	Weight	
192.168.44.71	Demo-Internal-Subnet	80	1	Remove
192.168.44.232	Demo-Internal-Subnet	80	1	Remove

Add external member

Available Instances

Filter

Name	IP Address	
TestWin2	192.168.44.71	Add
TestWin	192.168.44.232	Add

1.

8. On the Monitor Details tab, enter the following:

1. Name

2. Type (TCP or UDP only)
3. Leave other details at default, and click "Create Load Balancer"

Create Load Balancer

Load Balancer Details

Listener Details

Pool Details

Pool Members

Monitor Details

Provide the details for the health monitor.

Create Health Monitor

Yes No

Name Demo-Monitor

Type TCP

Max Retries Down 3

Delay (sec) 5

Max Retries 3

Timeout (sec) 5

Admin State Up

Yes No

1.

9. Wait for the creation to complete, you can determine if the creation has been completed when the following are shown:

1. The operating status is "Online"
2. Provisioning Status is "Active"
3. Admin State Up is "Yes"

10. Click the drop-down menu, and select "Associate Floating IP"

Project / Network / Load Balancers

Load Balancers

Click here for filters or full text search.

+ Create Load Balancer + Delete Load Balancers

Displaying 1 item

Name	IP Address	Availability Zone	Operating Status	Provisioning Status	Admin State Up
Demo-LoadBalancer	192.168.44.235	-	Online	Active	Yes

1.

11. From the dropdown box, select a public network for a floating IP pool and click associate

Associate Floating IP Address

Select a floating IP address to associate with the load balancer or a floating IP pool in which to allocate a new floating IP address.

Floating IP address or pool

public

1.

12. Click the down arrow for the load balancer and take note of the floating IP (highlighted Below) associated with it

Load Balancers

Create Load BalancerDelete Load Balancers

Displaying 1 item

Name	IP Address	Availability Zone	Operating Status	Provisioning Status	Admin State Up
Demo-LoadBalancer	192.168.44.235	-	Online	Active	Yes

Name

Demo-LoadBalancer

ID

39b76705-b995-4cac-8342-02b1865dbb05

Project ID

7facc23b5494459a51c0b6e5b403ae69

Created At

2024-11-25T22:08:30

Updated At

2024-11-25T22:09:09

Description

None

Network ID

53c835a1-3669-4f50-841b-6abaf1a21bb0

Subnet ID

78c856ac-6538-42e6-90fa-1d470d373a66

Port ID

67477ace-2485-463b-abac-5b3abe454507

Flavor ID

-

Provider

ovn

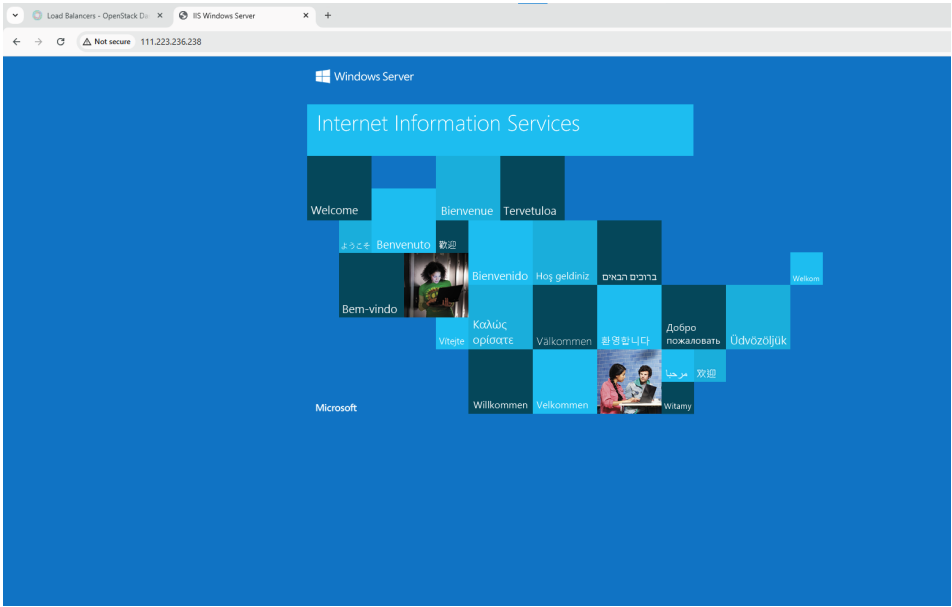
Floating IP

111.223.236.238

Editing Load Balancer

1.

13. Now you can test that the load-balancer is working as intended by visiting the Floating IP in your browser.



1.