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How to add and manage Floating IP addresses in mCloud

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This article details how Floating IP addresses can be managed in the Cloud Dashboard as well as how port forwarding can be managed.

Floating IPs in mCloud refer to a public IP Address that can be attached and moved between multiple instances and does not require any reconfiguration to the underlying resources. There are a few ways that a Floating IP address can be deployed:

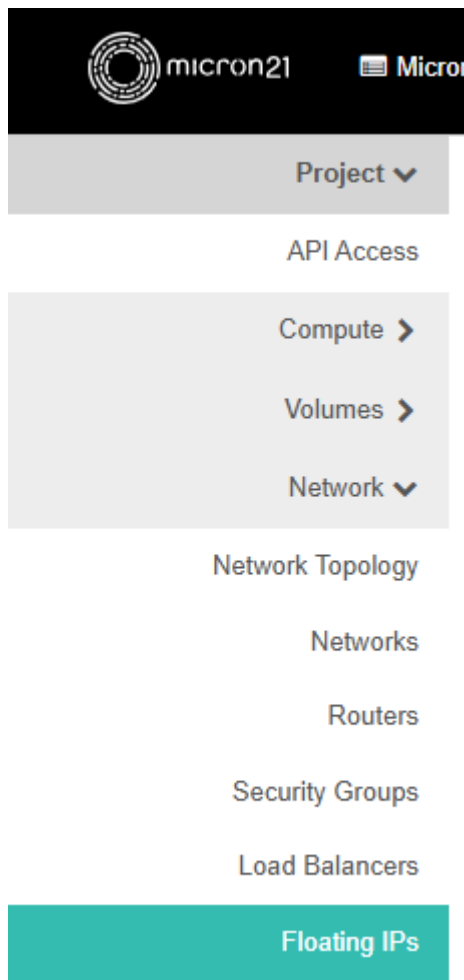
- Completely Floating - Leave the IP completely detached from instances and configure it to forward specific ports only.
- Associated - The floating IP is mapped 1:1 to a specified network port

Things to keep in mind while using Floating IP Addresses:

- Floating IP addresses do not provide outbound NAT. If this is necessary you can configure an mCloud Router following the guide linked below:
<https://support.micron21.com/kb/articles/375-how-to-create-a-new-private-network-in-mcloud>
- Any inbound traffic is governed by security group rules. Any ports that are forwarded MUST be allowed via security groups for traffic to pass through

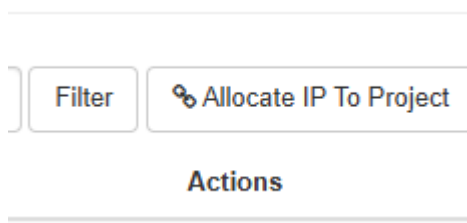
Method - Adding a Floating IP to a Project

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



1.

3. Select "Allocate IP To Project"



1.

4. Select the pool you want to draw an IP address from and click "Allocate IP"

Allocate Floating IP



Pool ^{*}
public

Description

DNS Domain

DNS Name

Description:
Allocate a floating IP from a given floating IP pool.

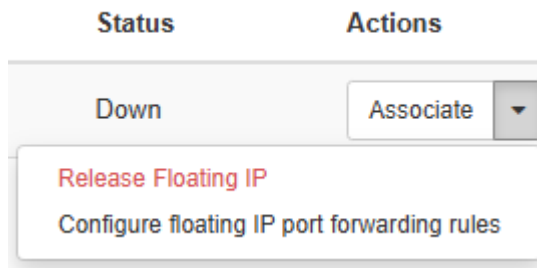
Project Quotas
Floating IP 0 of 50 Used

Cancel Allocate IP

1.

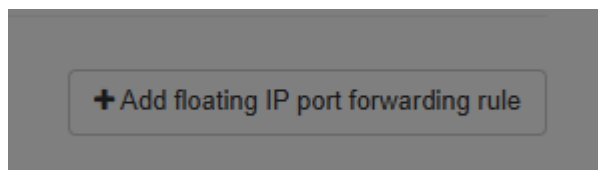
Method - Configure Port Forwarding

1. Select the Drop Down menu on the right for the new floating IP and select "Configure floating IP port forwarding rules"



1.

2. At the top right select "+ Add floating IP port forwarding rule"



1.

3. Enter the details for your port forward, with the external port being the 'listening' port on the public floating IP, and the 'internal' being the port on the internal IP address.

Add floating IP port forwarding rule



Protocol *

TCP

External port *

8080

Internal port *

80

Internal IP address *

TestWin: 192.168.44.232

Description

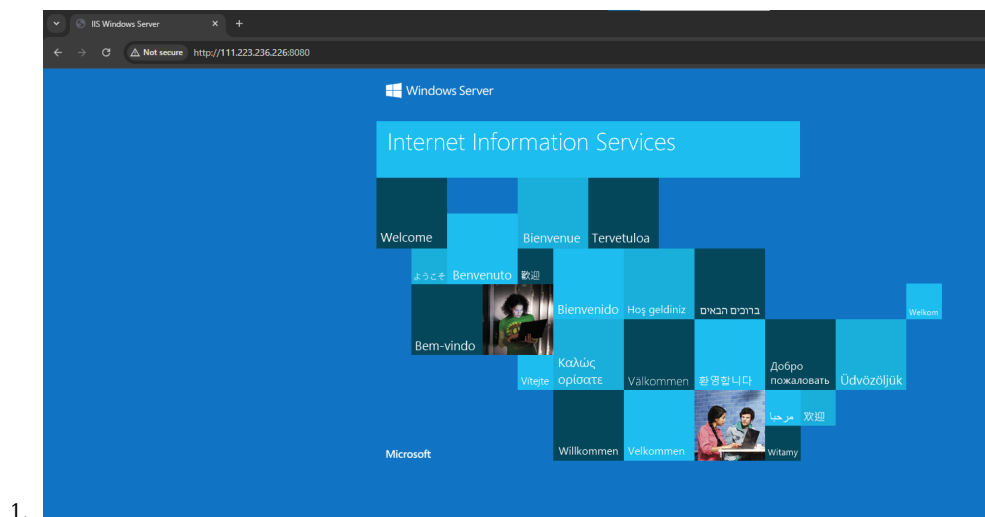
IIS on Windows server|

Description: IP floating rules define external specific traffic that is bound from a public IP to an internal address of a specific port.
Protocol: The protocol configured for the IP forwarding rule. You can choose between TCP and UDP.
External port: The external port of the floating IP that will be bound to the internal port in the internal address. This field allow values between 1 and 65535 and also support ranges using the following format: InitialPort:FinalPort where InitialPort <= FinalPort.
Internal port: The internal port of the given internal IP address that will be bound to the port that is exposed to the internet via the public floating IP. This field allow values between 1 and 65535 and also support ranges using the following format: InitialPort:FinalPort where InitialPort <= FinalPort.
Internal IP address: The internal IP address where the internal ports will be running.
Description: Describes the reason why this rule is being created.

Cancel Add

1.

4. Test that your port forward is working by visiting the IP as per below:



Method - Associate a Floating IP with an Instance's Network Interface

1. Locate the Floating IP you'd like associated with a NIC then, on the right, select "Associate"

Project / Network / Floating IPs

Floating IPs

Displaying 1 item

IP Address	Description	DNS Name	DNS Domain	Mapped Fixed IP Address	Pool	Status	Actions
111.223.236.226					public	Down	Associate

1.

2. Select the Network port to associate then click Associate

Manage Floating IP Associations

IP Address *

111.223.236.226

Port to be associated *

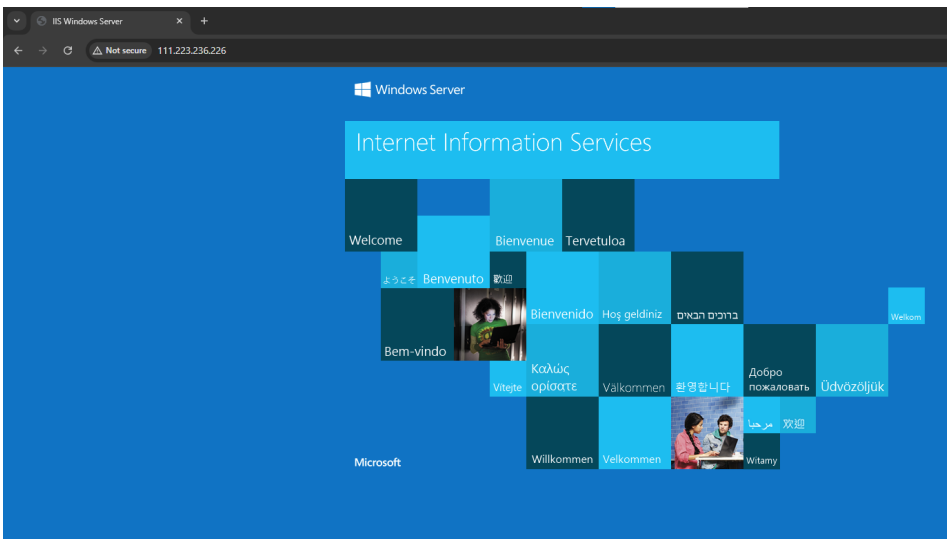
TestWin: 192.168.44.232

Select the IP address you wish to associate with the selected instance or port.

Cancel Associate

1.

3. Test the IP is correctly associated as per below:



1.