

# How to Notify CloudControl of a Change to the IP Addresses of a NIC in a MCP 2.0 Data Center

## Description

Describes how to update the record of a Private IP Address of a NIC stored in the Cloud system. This feature is useful if users are making manual changes to a NIC IP address or if they are using the "out of place" full system restore feature of Cloud Backup.

## Prerequisites:

 This function does **NOT** actually change the Private IP address of the NIC itself. Any such changes must be made locally inside the Operating System of the Cloud Server. This function is designed only to update the Cloud system of any subsequent changes to the private IP addresses assigned to a NIC on a Cloud Server in a MCP 2.0 data center location.

1. Only the Primary Administrator OR a User with the Server role assigned by the Primary Administrator can notify the Cloud system of a change to the IP address of an existing Cloud Server.
2. You must have already fully deployed a Server in order to modify it in any way. You cannot update the private IP address of the Server until the deployment process is complete.
3. When notifying the Cloud system of an IP change, the "new" private IP address must be part of the private IP block of the VLAN on which the server is located. The new private IP address also cannot be currently registered to any other Cloud Server ("In use")
4. The new private IP Address cannot currently be exclusively reserved. For more information on exclusively reserved IP Addresses, see [Introduction to IP Addressing in MCP 2.0](#)
5. **Important Note:** This feature has relevance when using the Cloud Backup service and performing an Out of Place File System Backup Restore. For more information, see [How to Initiate a Full System "Out of Place" Server Restore](#).
6. You cannot change the IP Address of a NIC if the server is in a state which requires it to be restarted. See the "Adding and Managing Disks" section of [Introduction to Cloud Server Local Storage \("Disks"\) and Disk Speeds](#)
7. If the Server is a DRS Target Server, and there is a Re-IP Address Rule defined:
  - a. DRS Service must be in a Normal state
  - b. The Consistency Group must be in a Normal state

## Content / Solution:

1. **From the Home page, select the MCP 2.0 Data Center where you want to update the IP Address of a NIC:**



The screenshot shows the MCP 2.0 Data Center dashboard. At the top, there are four summary cards: 'ALL MCPs OPERATIONAL' (thumbs up icon), '4 SERVERS ONLINE' (cloud and server icon), '0 SERVERS OFFLINE' (cloud and server with red X icon), and '3 NETWORKS AND VLANs' (network icon). Below these is a 'Summary' section with a table.

Data Center	Status	Servers Running	Total CPU	Total RAM	Total Storage	Backup Enabled	Monitoring Enabled
<a href="#">US - East 3 - MCP 2.0 (NA9)</a>		3 of 3	3	3 GB	90 GB	-	1
<a href="#">US - West - MCP 2.0 (NA12)</a>		1 of 1	1	1 GB	20 GB	-	-

2. **The Data Center dashboard will be displayed. Select the Network Domain where the NIC whose IP address you want to change is located:**

Name *	Type	SNAT IPv4 Address	Actions
<ul style="list-style-type: none"> <li>Network Domain 1 <ul style="list-style-type: none"> <li>Department 1: R&amp;D</li> <li>Team: Documentation</li> </ul> </li> </ul>	Enterprise	168.128.250.3	⚙️
<ul style="list-style-type: none"> <li>Network Domain 2 <ul style="list-style-type: none"> <li>Department 1: R&amp;D</li> <li>Team: Documentation</li> </ul> </li> </ul>	Advanced	168.128.3.45	⚙️

- The Network Domain Dashboard will be displayed. Click on the Servers tab. Locate the Server whose IP Address you want to change and click on the Manage gear for that Server. Click the Modify IP Address button:

Name *	Services	Cluster Name	Public IPv4	Primary IPv4	Primary IPv6	CPU	RAM	Storage	Actions
NGOC Server 1	🔒 📄 📄	QA1_N2_VM...01		172.16.0.8	2607:f480:1111:1410:3ca3:52b:8abe:d1c5	1 CPU	65 GB	52 GB	⚙️
Server 1	🔒 📄 📄	QA1_N2_VM...01		172.16.0.6	2607:f480:1111:1410:5c57:4db6:63a9:e310	1 CPU	1 GB	10 GB	⚙️
Server 2	🔒 📄 📄	QA1_N2_VM...01		172.16.0.7	2607:f480:1111:1410:5185:64b2:f4f1:40df	1 CPU			⚙️

- Modify Server
- Reconfigure Server
- Modify IP Address
- Manage Server Monitoring
- Manage Server Tags
- Move to another Cluster
- Start
- Restart
- Clone
- Console
- Delete

- The Modify Server NIC Properties dialog will be displayed:

### Modify Server NIC Properties ✕

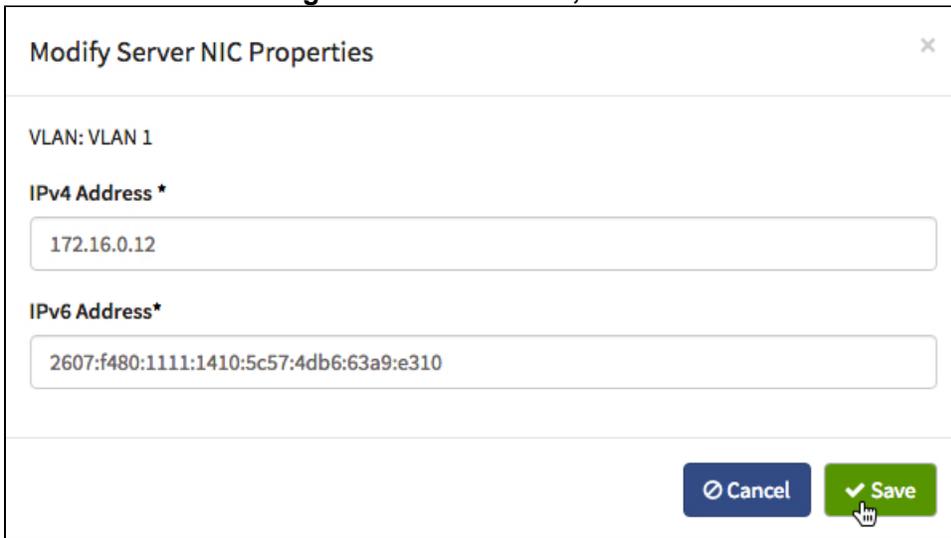
VLAN: VLAN 1

**IPv4 Address \***

**IPv6 Address\***

Cancel
Save

5. Make the desired change to the IP Address, then click Save:



Modify Server NIC Properties

VLAN: VLAN 1

IPv4 Address\*

172.16.0.12

IPv6 Address\*

2607:f480:1111:1410:5c57:4db6:63a9:e310

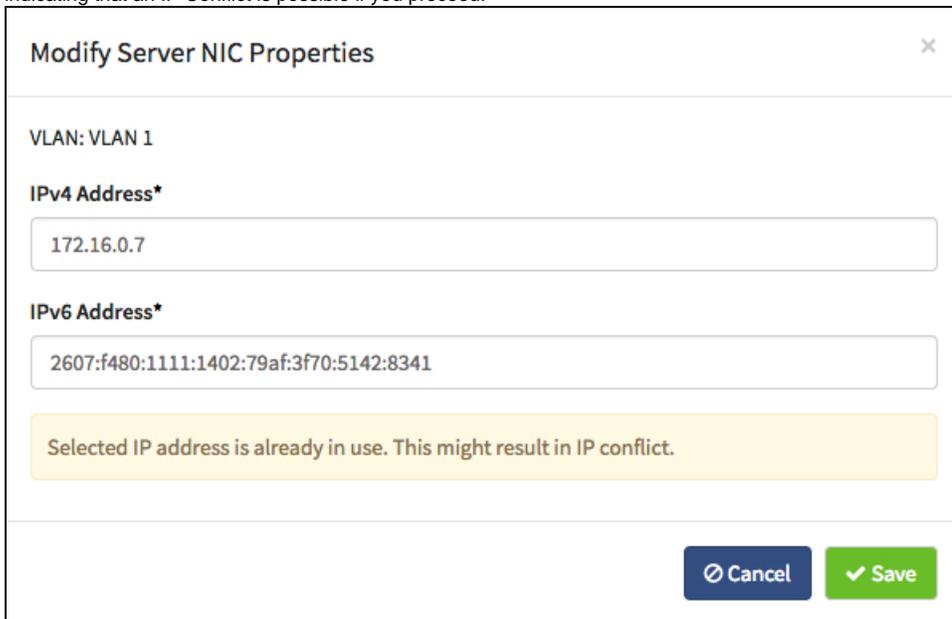
Cancel Save

It is recommended that you take note of the current Private IP Address of the Server at this point in case you wish to revert to this exact IP Address later.

**Note:** The system reserves X.X.X.0 - X.X.X.7 and X.X.X.255 for its own use, meaning X.X.X.8 - X.X.X.254 are available for use. See [Introduction to IP Addressing and Routing in MCP 2.0](#)

**Note:** The IPv4 Address cannot be exclusively reserved

- a. If the IP Address you are attempting to change to is being utilized by another Cloud resource, the system will present a message indicating that an IP Conflict is possible if you proceed:



Modify Server NIC Properties

VLAN: VLAN 1

IPv4 Address\*

172.16.0.7

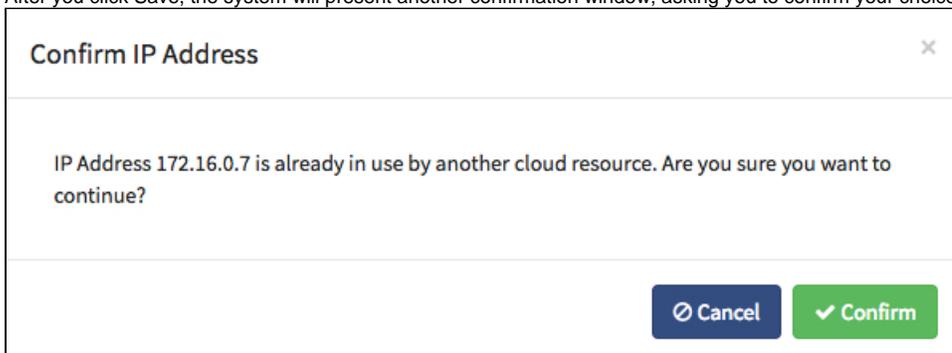
IPv6 Address\*

2607:f480:1111:1402:79af:3f70:5142:8341

Selected IP address is already in use. This might result in IP conflict.

Cancel Save

- b. After you click Save, the system will present another confirmation window, asking you to confirm your choice:

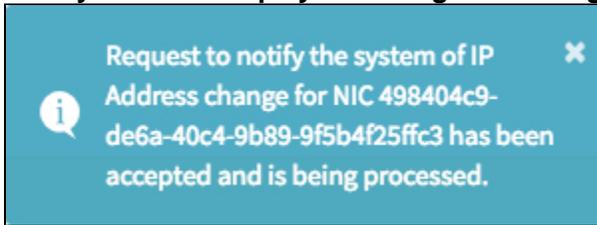


Confirm IP Address

IP Address 172.16.0.7 is already in use by another cloud resource. Are you sure you want to continue?

Cancel Confirm

6. The system will display a message indicating that the request is being processed:

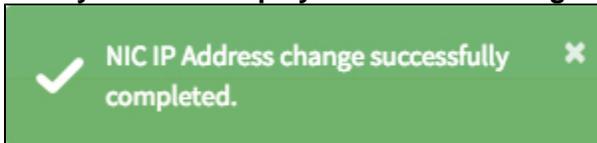


7. The system will indicate that the change is in progress:

Servers									Actions
Name	Services	Cluster Name	Public IPv4	Primary IPv4	Primary IPv6	CPU	RAM	Storage	
NGOC Server 1		QA1_N2_VM... 01		172.16.0.8	2607:f480:1111:1410:3ca3:520:8abed1c5	1 CPU	65 GB	52 GB	
Server 1	Notify NIC IP Address Change	QA1_N2_VM... 01		172.16.0.6	2607:f480:1111:1410:5c57:4db6:63a9:e310	1 CPU	1 GB	10 GB	
Server 2		QA1_N2_VM... 02		172.16.0.7	2607:f480:1111:1410:5185:64b2:f4f1:40df	1 CPU	1 GB	10 GB	

**Note:** You will not be able to perform any Manage functions on this Server until the update is complete.

8. The system will display a success message:



9. The IP Address will be updated and the UI will update to reflect the change:

Servers									Actions
Name	Services	Cluster Name	Public IPv4	Primary IPv4	Primary IPv6	CPU	RAM	Storage	
NGOC Server 1		QA1_N2_VM... 01		172.16.0.8	2607:f480:1111:1410:3ca3:520:8abed1c5	1 CPU	65 GB	52 GB	
Server 1		QA1_N2_VM... 01		172.16.0.12	2607:f480:1111:1410:5c57:4db6:63a9:e310	1 CPU	1 GB	10 GB	
Server 2		QA1_N2_VM... 02		172.16.0.7	2607:f480:1111:1410:5185:64b2:f4f1:40df	1 CPU	1 GB	10 GB	

When the update is complete, the Server will return to its normal state and you can now perform other managerial tasks on the Server.

## Recently Updated

- [How to Configure Existing Red Hat Servers to Use the MCP Update Infrastructure](#)
- [How are Software Upgrades performed on the Cloud](#)
- [How are Operational Maintenance Events Performed on the Cloud](#)
- [Migrating to the new RHUI Architecture](#)
- [How to Delete a Cloud Server](#)