



Configuring DHCP Reservations

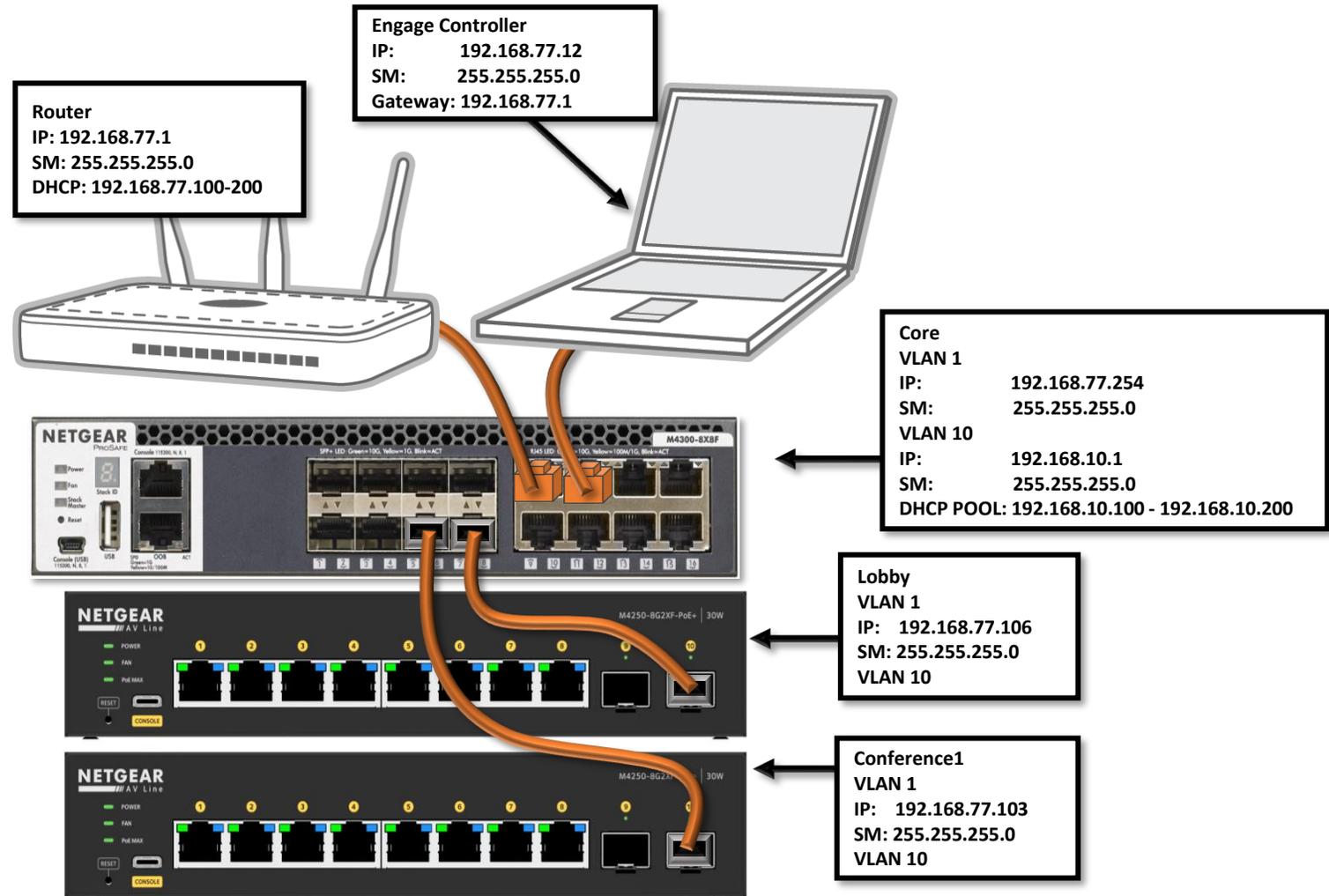
How to configure a DHCP reservation using Engage.

Configuring Multiple VLANs with Internet Access

In this article we are going to show how to configure a DHCP reservation for a device on VLAN10.

A DHCP reservation allows you to configure the DHCP server to always provide the same IP address for a specific device based on the MAC address that is requesting an IP address.

For this scenario we have already configured a VLAN with a DHCP server on the core switch.



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Site

HQ ▾

[Save](#)

Managed Devices

[+ Add Device](#)

Switch Model	System Name	Serial Number	IP Address	FW Version	AV Version	Status	
M4300-8X8F XSM4316S	Core	4G3N2979D0132	192.168.77.254	12.3.17.13	2.2.4.12	Online	Configure ⋮
M4250-8G2XF-PoE+ GSM4210PX	Conference1	6YX32A5FA00F7	192.168.77.103	13.1.4.14	2.2.4.12	Online	Configure ⋮
M4250-8G2XF-PoE+ GSM4210PX	Lobby	6YX32A5NA0109	192.168.77.106	13.1.4.14	2.2.4.12	Online	Configure ⋮

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Discovered Devices

Switch Model	System Name	Serial Number	MAC Address	IP Address	FW Version	AV Version
You do not have any discovered devices						

Total 0 < 1 > Go to

Devices Topology **Site Settings** Support Controller Management

Go to the "VLAN Routing and DHCP Server" tab.

Save

Network Profiles

Management VLAN and OOB

VLAN Routing and DHCP Server

IGMP Querier

Network Profiles

[Export Worksheet](#) [Create New Profile](#)

Profile Name	Profile Template	VLAN ID	Management VLAN
Default	Data	1	
Dante	Audio Dante	10	

Total 2

Global Settings

These setting will be applied to all switches on this site.

Auto-Trunk



Auto-LAG



DHCP Address Reservation

Advanced | DHCP Address Reservation

Refresh

VLAN Routing

Profile Name: **Default**VLAN ID: **1**

Add

Import

Export

Host ↓

MAC Address

IP Address



No Dhcp server found

Total 0

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**1**

Go to

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Go to "Advanced" and "DHCP Address Reservation."

DHCP Address Reservation

Advanced | DHCP Address Reservation

Refresh

VLAN Routing

Profile Name: Default

VLAN ID: 1

Add

Import

Export

Default

1

Dante

10

Host

Address

IP Address

Delete

No Dhcp server found

Total 0

10/page

<

1

>

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1

Click on the drop-down for "VLAN Routing" and select the VLAN you want to create a DHCP reservation for.

Network Profiles

Basic

Advanced

DHCP Address Reservation

DHCP Bindings

Information

DHCP Address Reservation

Advanced | DHCP Address Reservation

Refresh

VLAN Routing

Profile Name: Dante

VLAN ID: 10

Add

Import

Export

Host ↑

MAC Address

IP Address



No Data

Total 0

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1

Click on "Add."

There are 2 ways to add a DHCP reservation:

1. If the device has already connected to the VLAN and has already received an address, it will show up on the list where we can select it and assign the address we want to it.
2. If the device has not yet connected to the network, you can manually input the information for the device.

We are going to go through both ways starting with adding the discovered device.

Check the box for the device that you want to create the reservation for.

Add Host

Select from the following hosts or click on "others" to add an entry manually

<input type="checkbox"/>	Host	MAC Address ↓	IP Address
<input type="checkbox"/>	BYD Precision Manufacture C ompa	98:BB:1E:1C:6D:05	192.168.10.100

Add Host

Select from the following hosts or click on "others" to add an entry manually

<input checked="" type="checkbox"/>	Host	MAC Address ↓	IP Address
<input checked="" type="checkbox"/>	BYD Precision Manufacture C ompa	98:BB:1E:1C:6D:05	192.168.10.100

Click on "Add."

Cancel Add Others

Add Host

Edit and confirm the selected hosts.

Host	MAC Address	IP Address
BYD Precision Manufacture Comp a	98:BB:1E:1C:6D:05	192.168.10.100

Cancel

Confirm

Enter the IP address you want to assign for the device.
We are going to assign "192.168.10.50."

NOTE: you will have to renew the IP address on the device for it to receive the new address.

Add Host

Edit and confirm the selected hosts.

Host	MAC Address	IP Address
BYD Precision Manufacture Comp a	98:BB:1E:1C:6D:05	192.168.10.50

Cancel Confirm

Click on "Confirm."

No Data

Here we can see the DHCP reservation that we just created.

We are now going to create a reservation for a device that has never been connected to the network, and manually enter the information.

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Network Profiles Management VLAN and OOB **VLAN Routing and DHCP Server** IGMP Querier

[Network Profiles](#)

Basic

Advanced

DHCP Address Reservation

DHCP Bindings

Information ▾

DHCP Address Reservation

Advanced | DHCP Address Reservation

[Refresh](#)

VLAN Routing

Profile Name: Dante

VLAN ID: 10 ▾

Add[Import](#)[Export](#)

Host ↑

MAC Address

IP Address



BYD Precision Manufacture Compa

98:bb:1e:1c:6d:05

192.168.10.50

Total 1

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1



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1

Add Host

Select from the following hosts or click on "others" to add an entry manually

<input type="checkbox"/>	Host	MAC Address ↓	IP Address
<input type="checkbox"/>	BYD Precision Manufacture C ompa	98:BB:1E:1C:6D:05	192.168.10.100

Click on "Others."

Cancel Add Others

Add Host

Enter host details manually

Host Name	Dante22
MAC Address	99:BC:2E:3C:5D:50
IP Address	192.168.10.25

Back Add

Enter a name for the device, the MAC address, and the IP address you want for the device.

Here we can see the reservation that we just created has been added to the list.

Devices Topology **Site Settings** Support Controller Management

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Basic

Advanced

DHCP Address Reservation

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Information

DHCP Address Reservation

Advanced | DHCP Address Reservation

Refresh

VLAN Routing

Profile Name: Dante

VLAN ID: 10

Add

Import

Export

Host ↓	MAC Address	IP Address	
Dante22	99:bc:2e:3c:5d:50	192.168.10.25	
BYD Precision Manufacture Compa	98:bb:1e:1c:6d:05	192.168.10.50	

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In this module we have gone through how to create a DHCP reservation by discovering the device on the network and by manually entering the information for the device.

