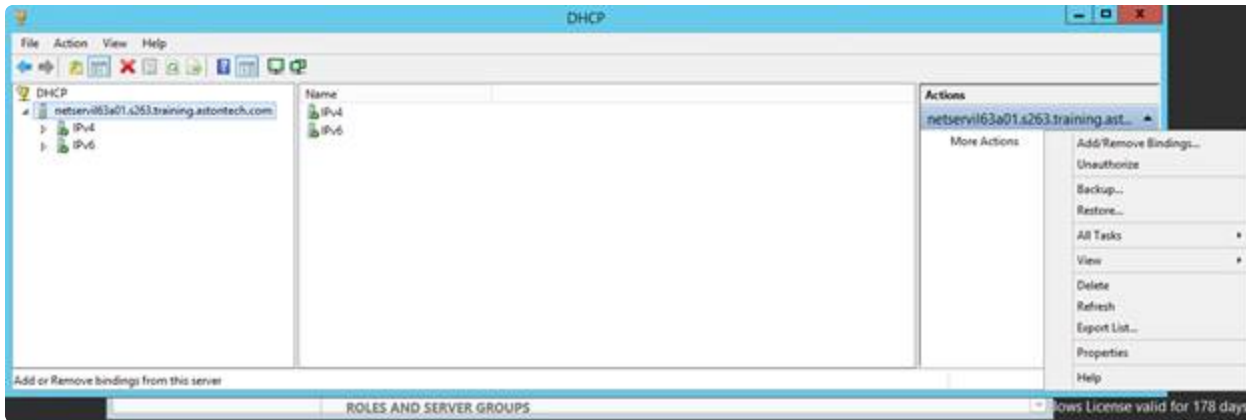


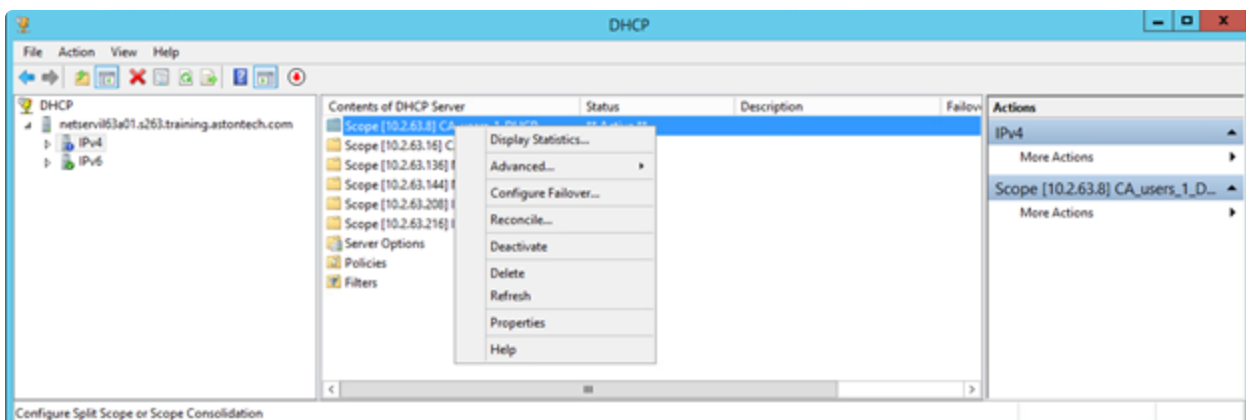
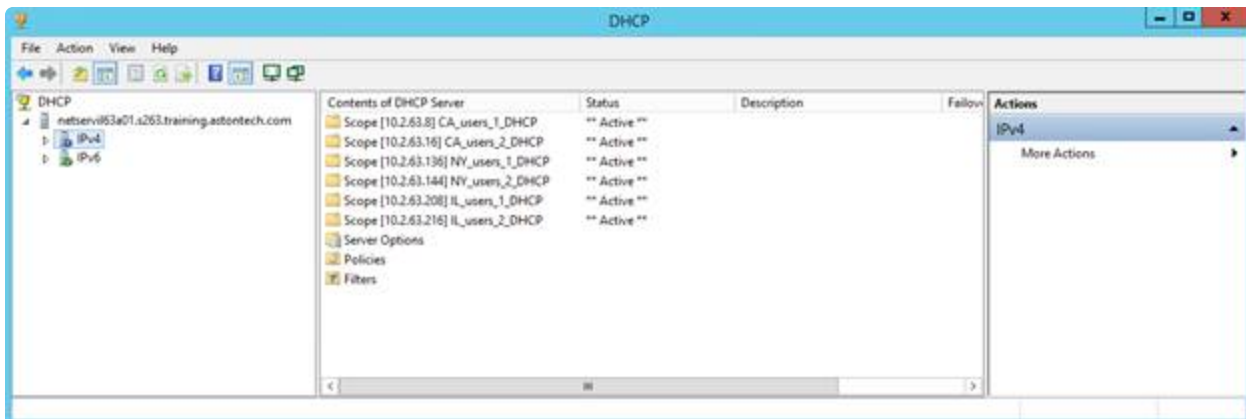
Infoblox CAB

Switching DHCP from Windows Server to Infoblox

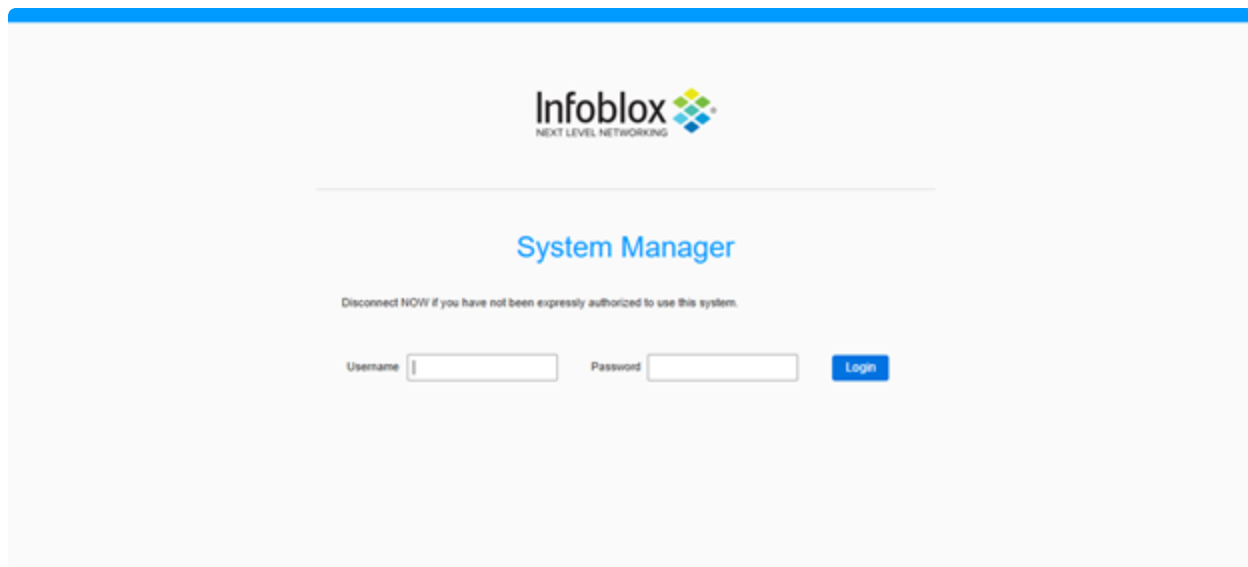
Step 1 – Create a backup of your DHCP settings in windows. There is a drop down in the DHCP settings that will allow you to create a backup on windows server.



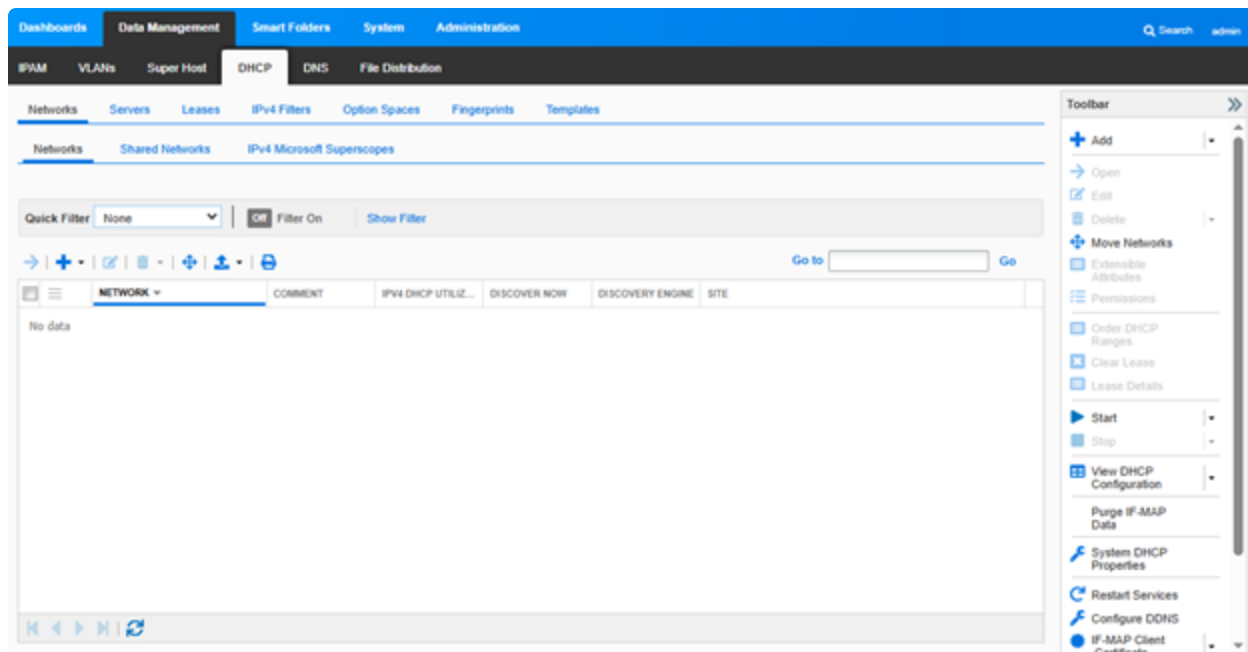
Step 2 – Navigate to DHCP IPv4 section and proceed to delete all of the scopes that you have created by right clicking them.



Step 3 – Navigate to the Infoblox server that you have set up and login.



Step 4 – Navigate to the “Data management” tab and select “DHCP”.



Step 5 – from the previous screen, click on the “+” sign and add an IPv4 Network that will include all of the devices in your network. You will leave all the settings default besides the ones shown below (Step 2 and 5). For step 5 you will want to override “lease time” and “domain name” to add the correct information.

Add IPv4 Network Wizard > Step 2 of 8

*Netmask

/ 16 255.255.0.0

1 4 8 12 16 20 24 28 32

*Networks

NETWORK

10.2.0.0

Comment

☐ Automatically Create Reverse-Mapping Zone

☐ Disable for DHCP

Cancel Previous Next Schedule for Later Save & Close

Add IPv4 Network Wizard > Step 5 of 8

Lease Time

12 Hours

☐ Unlimited Lease Time

Inadvertently selecting the Unlimited Lease Time check box or using this option incorrectly could cause a serious network outage in the future when all available leases are allocated

Routers

IP ADDRESS

No data

Inherited From Upper Level

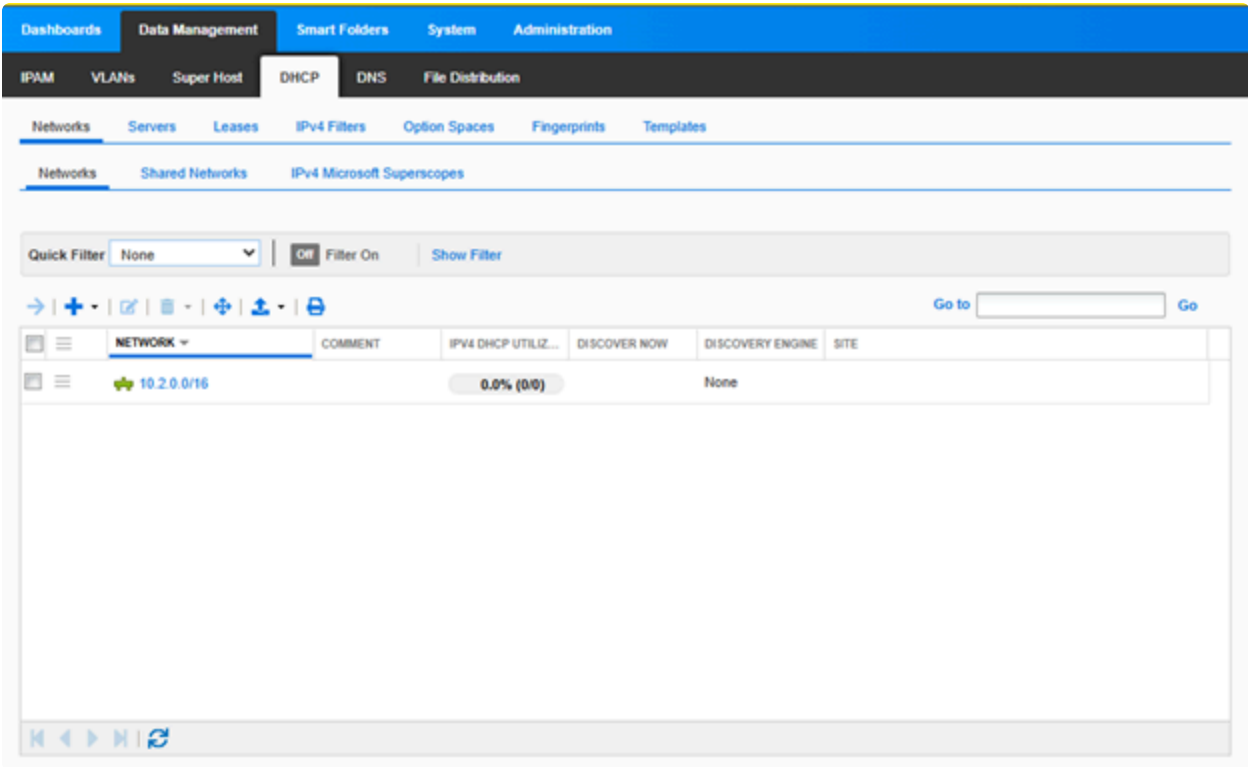
Domain Name

s263.training.astontech.c

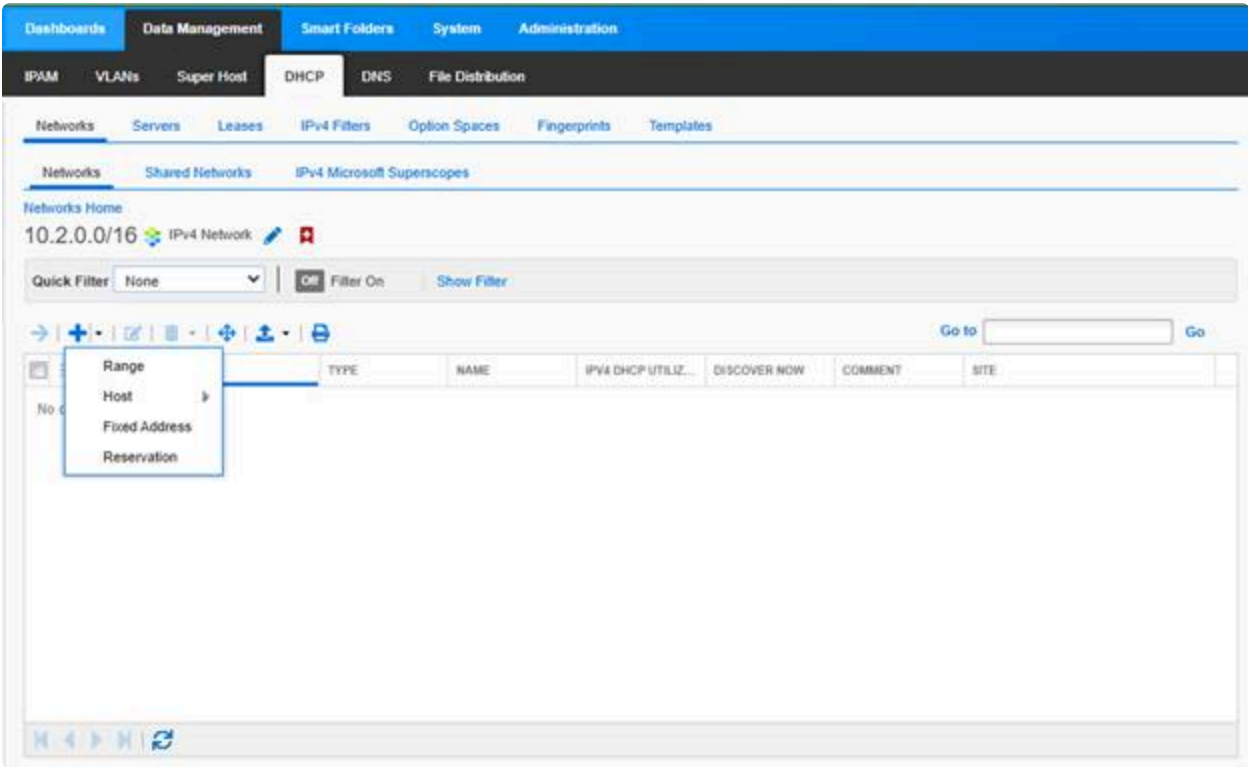
Cancel Previous Next Schedule for Later Save & Close

*Do not forget to save and close and when done your window should look like it is shown below.

When the IPv4 network has been created, click into it and you will then add your DHCP scopes.



Step 6 – From the screen below, click on the “+” drop down and click on “range”.



Step 7 – Once the next screen pops open, once again leave all settings default besides the steps shown below (Step 2 and 3). Do not forget to save and close before exiting. You will repeat these steps for all scopes needed making sure to only add the **usable hosts** to the range, excluding the network and broadcast address.

Add IPv4 Range Wizard > Step 2 of 5

*Network

10.2.0.0/16 (255.255.0.0)

Select Network

Clear

*Start

10.2.63.9

*End

10.2.63.14

Name

ca-users1

Comment

Disable for DHCP

☐

Cancel

Previous

Next

Schedule for Later

Save & Close

Add IPv4 Range Wizard > Step 3 of 5

Served by

☐ None

☒ Server infoblox.localdomain

☐ IPv4 DHCP Failover Association

Select Association

Cancel

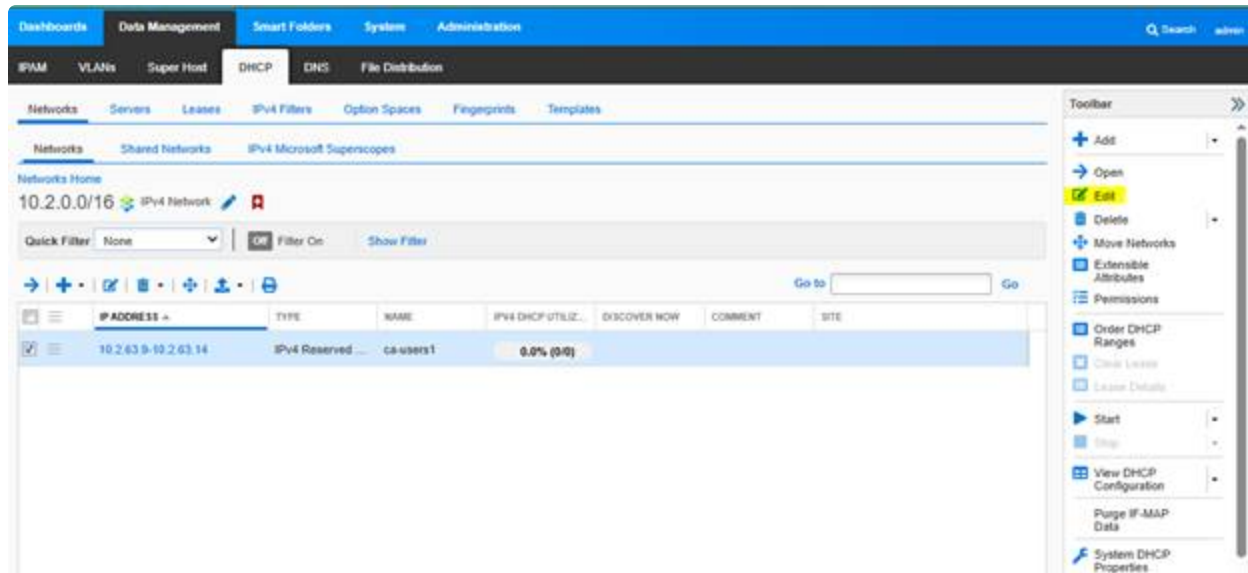
Previous

Next

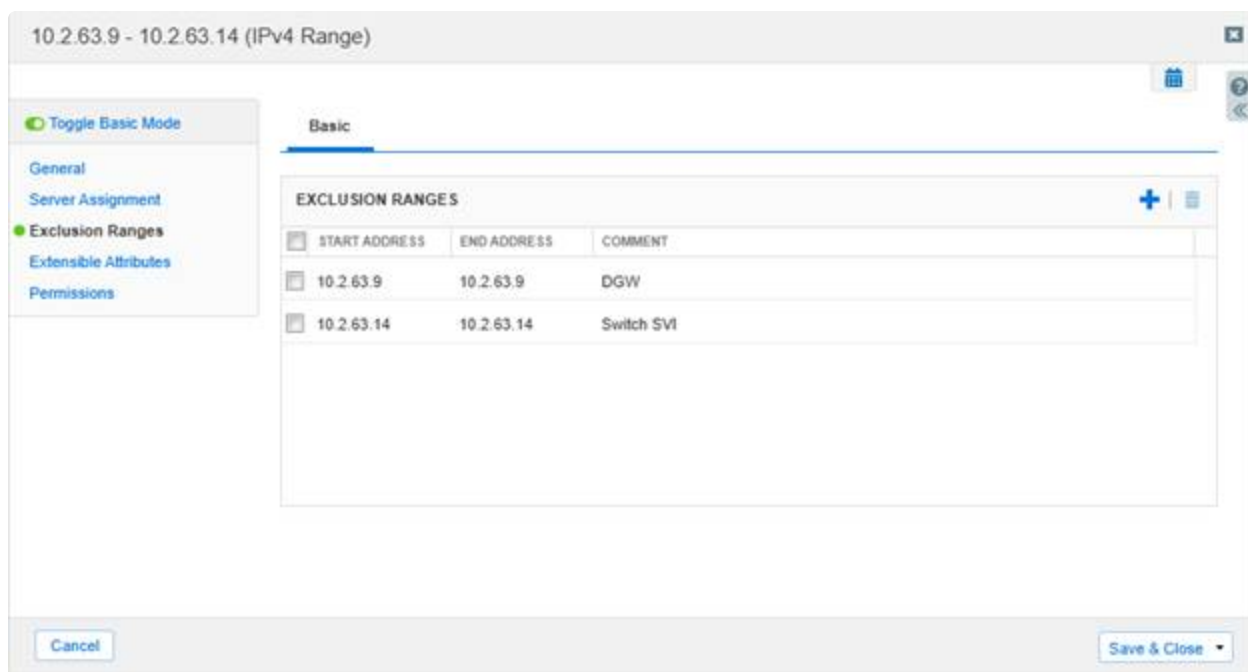
Schedule for Later

Save & Close

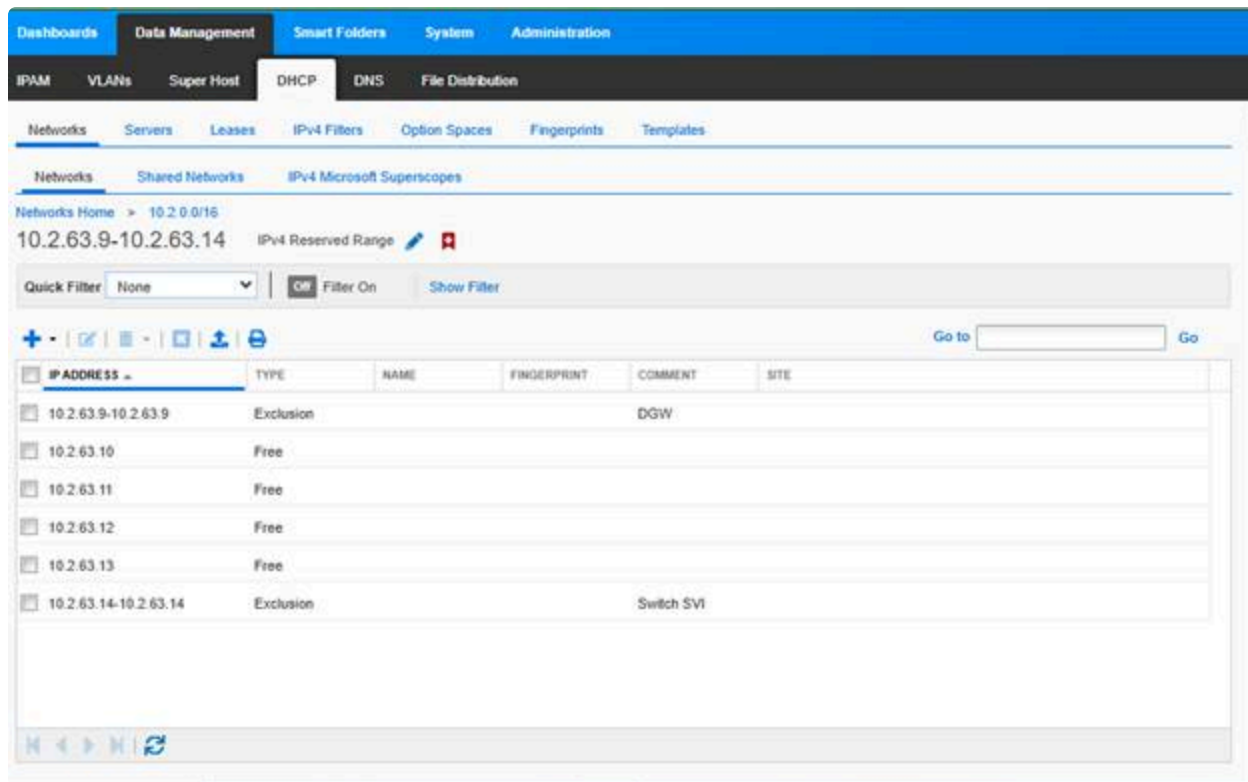
Step 8 – Now that we have created the range of the scope, you will need to add exclusions. These exclusions are IP addresses that will not be redistributed to hosts when connecting to the network such IP addresses that are reserved for SVIs or default gateways. How to do this is by clicking on the scope you have created and going into “edit” on the right side of the window.



Once in the next window, make sure advanced mode is enabled and you will be able to add exclusion ranged. Add the IP addresses in the range that need to be excluded. In this case only 2 will be added and the finished product will be shown below.



You can verify you have done this correctly by viewing the next screen when you save and close, shown below.



****Make sure you do this for all DHCP pools that need to be created.**

Now that the DHCP pools have been created, you will need to adjust the “IP helpers” on the default gateway to point at the Infoblox DHCP server instead of the Windows server DHCP that it was previously pointed at.

```
ctrCA063a02a01(config)#int g0/3.1631
ctrCA063a02a01(config-subif)#no ip help
ctrCA063a02a01(config-subif)#no ip helper-address 10.2.163.20
ctrCA063a02a01(config-subif)#ip help
ctrCA063a02a01(config-subif)#ip helper-address 10.2.163.30
ctrCA063a02a01(config-subif)#do show run int g0/3.1631
Building configuration...

Current configuration : 160 bytes
!
interface GigabitEthernet0/3.1631
 description CA Users 1
 encapsulation dot1Q 1631
 ip address 10.2.63.9 255.255.255.248
 ip helper-address 10.2.163.30
end
ctrCA063a02a01(config-subif)#
```

Make sure your DHCP service is turned on and that the IP address of the whole network is pointing toward the IP address of VLAN 911.

The screenshot shows the 'infoblox.localdomain Manage Services' page in the Infoblox System Manager. The 'Services' tab is selected. A table lists the following services and their statuses:

Service	Status	Description
DHCP	Working	DHCP Service is working
DNS	Working	DNS Service is working
TFTP	Inactive	Hard Disk: 0% - TFTP Service is inactive
HTTP (File Dist)	Inactive	Hard Disk: 0% - HTTP File Dist Service is inactive
FTP	Working	Hard Disk: 0% - FTP Service is working
NTP	Working	NTP Service is working
bloxTools	Inactive	CPU: 100%, Memory: 0%, Hard Disk: 0%
Subscriber Collection	Inactive	Subscriber Collection Service is inactive

The screenshot shows the 'Infoblox (System DHCP Properties)' dialog box with the 'Basic' tab selected. The configuration includes:

- Routers:** A list with one entry: IP ADDRESS 10.2.163.17.
- Domain Name:** s263.training.astontech.c
- DNS Servers:** A list with one entry: IP ADDRESS 10.2.163.30.
- Broadcast Address:** An empty text field.
- Custom DHCP Options:** A section with a dropdown menu set to 'DHCP', a 'Choose option' dropdown, and an empty text field.

Buttons at the bottom include 'Cancel' and 'Save & Close'.

Now verify that the host is able to connect to DHCP and your IP is pointing at Infoblox instead of windows and you are done. ****Make sure to do this for all hosts**


```
CA-Host-1> dhcp
DDORA IP 10.2.63.13/16 GW 10.2.63.9

CA-Host-1> show ip

NAME           : CA-Host-1[1]
IP/MASK        : 10.2.63.13/16
GATEWAY        : 10.2.63.9
DNS            : 10.2.163.30
DHCP SERVER    : 10.2.163.30
DHCP LEASE     : 43193, 43200/21600/37800
DOMAIN NAME    : s263.training.astontech.com
MAC            : 00:50:79:66:68:09
LPORT          : 20578
RHOST:PORT     : 127.0.0.1:20579
MTU            : 1500

CA-Host-1> 
```

****Rollback**

If for any reason you need to rollback, you created a backup of your Windows DHCP Server. You would just have to go in and change the IP helpers of your DGWs back to the Windows Server and make sure your scopes are up. If you refer back to the first picture in this document, under "backup" there is a "restore" option.