# DHCP Server configuration to Downloading Switch firmware and Configuration file

*Note: Used windows 2008 server for this DHCP server Configuration*

1. Go to start -> Server Manager



1. Expand Roles –> DHCP Server -> w2k8 -> IPv4



1. Right click on IPv4 and select “Define Vendor Classes…”



You can see the new window as “DHCP Vendor Classes”



1. Click “Add” in “DHCP Vendor Classes”, You’ll get a new window for “New Class”

To get vendor-specific value for a switch, go to switch console and enter

“show dhcp client vendor-specific”.

e.g.:

 HP-2530-24G-PoEP-2SFPP# show dhcp client vendor-specific

 Vendor Class Id = HP J9854A 2530-24G-PoE+-2SFP+ Switch

Processing of Vendor Specific Configuration is enabled

Add Display name (it can be anything), Description for the New Vendor class (it can be anything). In the ASCII field, add exactly the value obtained from the switch (HP J9854A 2530-24G-PoE+-2SFP+ Switch)

We can create multiple Vendor Classes, for various J-number’s. Each of these Vendor classes can have unique Firmware Image and Config files names.



1. Right click on IPv4 and select “Set Predefined Options…”



1. You’ll get a new window for “Predefined Options and Values”. In that select “Option class” as you have configured in “DHCP Vendor Class”. In this case it is “switch”.



1. Specify Config file and Firmware Image names
2. **Config File Details**

Click “Add”. Configure Name (can be anything), Data Type as “String”, code as “144” and Description (can be anything)

Option 144 represents the config file that will be downloaded from TFTP server



Click “OK”.

1. **Firmware image file details**

Click “Add”. Configure Name (can be anything), Data Type as “String”, code as “145” and Description (can be anything)

Option 145 represents the firmware image file that will be downloaded from TFTP server



Click “OK”.

1. Go to IPv4 -> Expand the Scope. You can see the “Scope Options”.

Right click on “Scope Options” and select “Configure Options…”



1. You can see new window as “Scope Option”. Select “Advance” tab in that.

Select “Vendor class” that you have configured. Here it is “switch”



1. Select “144” and specify the config file that needs to be downloaded from TFTP server (here its conf.cfg)



Click Apply

1. Select “145” and specify the firmware image file that needs to be downloaded from TFTP server (here its KA\_16\_04\_REL\_UKIAH\_020217.swi)



Click OK.

12. Configure TFTP server IP address

1. Go to IPv4 -> “Scope Options”

Right click on “Scope Options” and select “Configure Options…”

Click on “General” tab and select “066 Boot Server Host Name”

Enter the TFTP server IP address in “String Value” Field.



13. Restart the DHCP server

