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Lab Manual

Of

Network

Management and

Administration.

DEPARTMENT OF COMPUTER ENGINEERING

SEMESTER – 6

LJ Polytechnic, Ahmedabad
COMPUTER ENGINEERING - SEMESTER 6
### NETWORK MANAGEMENT AND ADMINISTRATION [3360703]
PRACTICAL LIST

| Pr #.	PRACTICAL DEFINITION
1	Execution of Basic TCP/IP utilities and commands.
2	Installing and Configuring Virtual Machine VMware.
3	Creating Windows Server Boot Disk.
4	Installing Windows Server 2012 R2 on VMware.
5	Configuring Windows Server 2012 R2 on VMware.
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7	Configuring Windows 7 Operating System on VMware.
8	Installing Active Directory Using Server Manager.
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10	Creating Active Directory Objects.
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19	Manage Desktop Configuration using Group Policy
20	Installing and Configuring Backup Services.

PRACTICAL 13

Practical Definition :
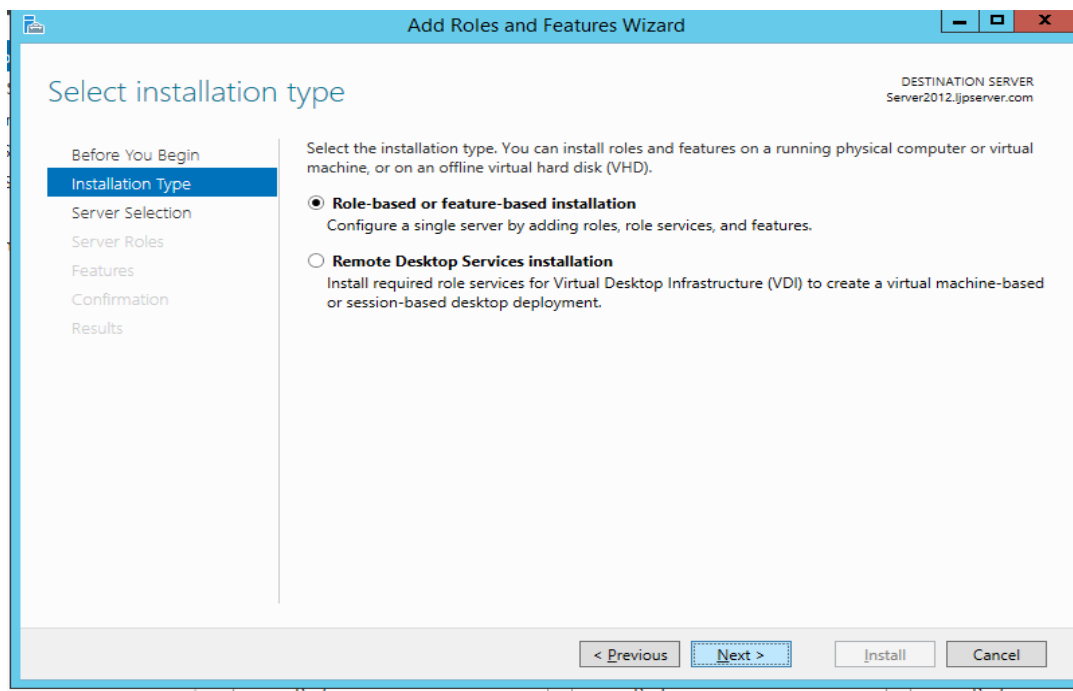
➢ Install and Configure DHCP on Server 2012.

1. Logon on to your root domain controller. Open Server manager and click **Add roles and features**.
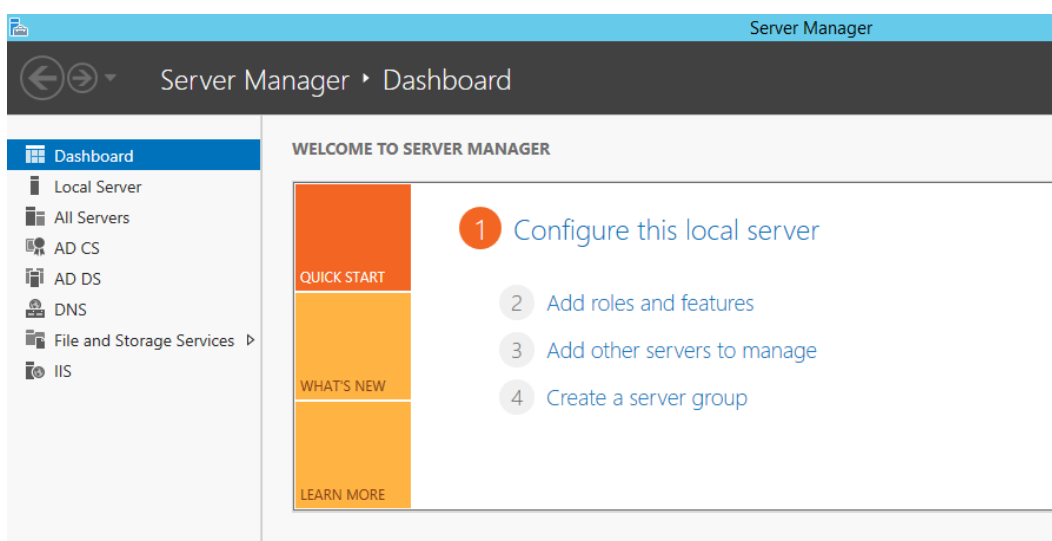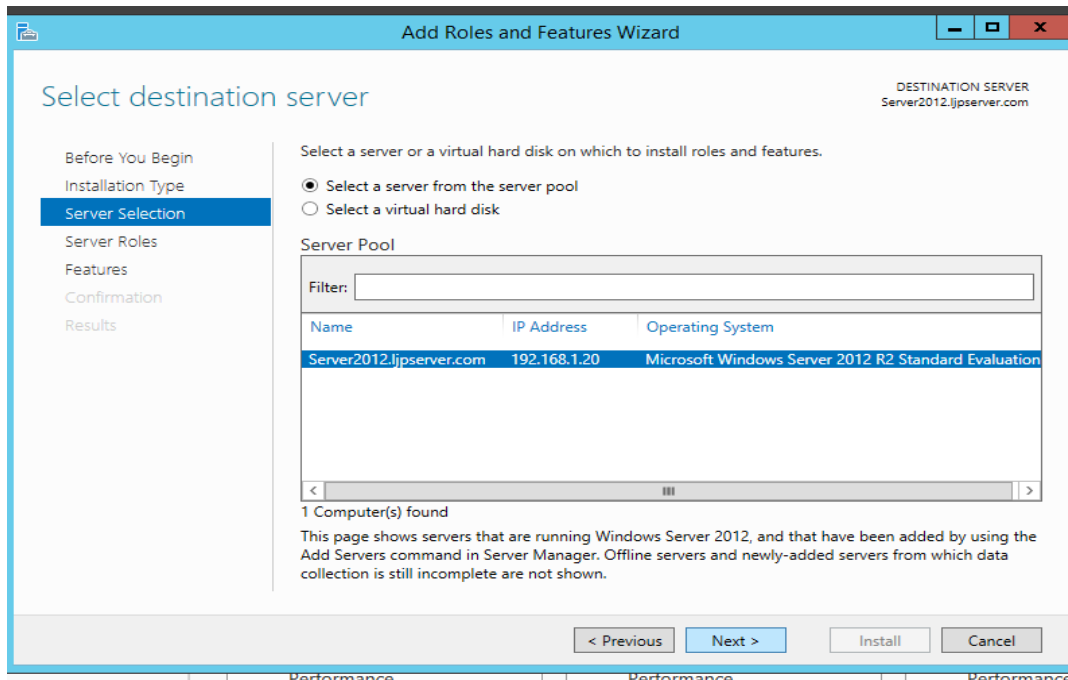

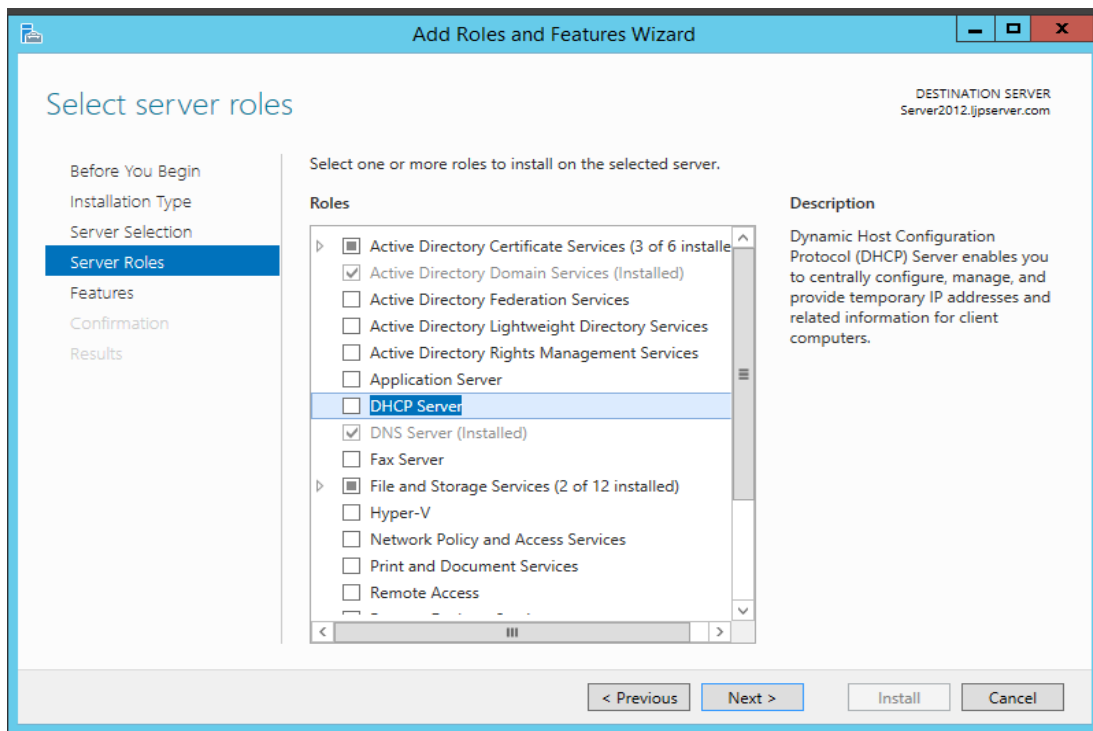2. In the **Add Roles and Features Wizard**, click **Next**.
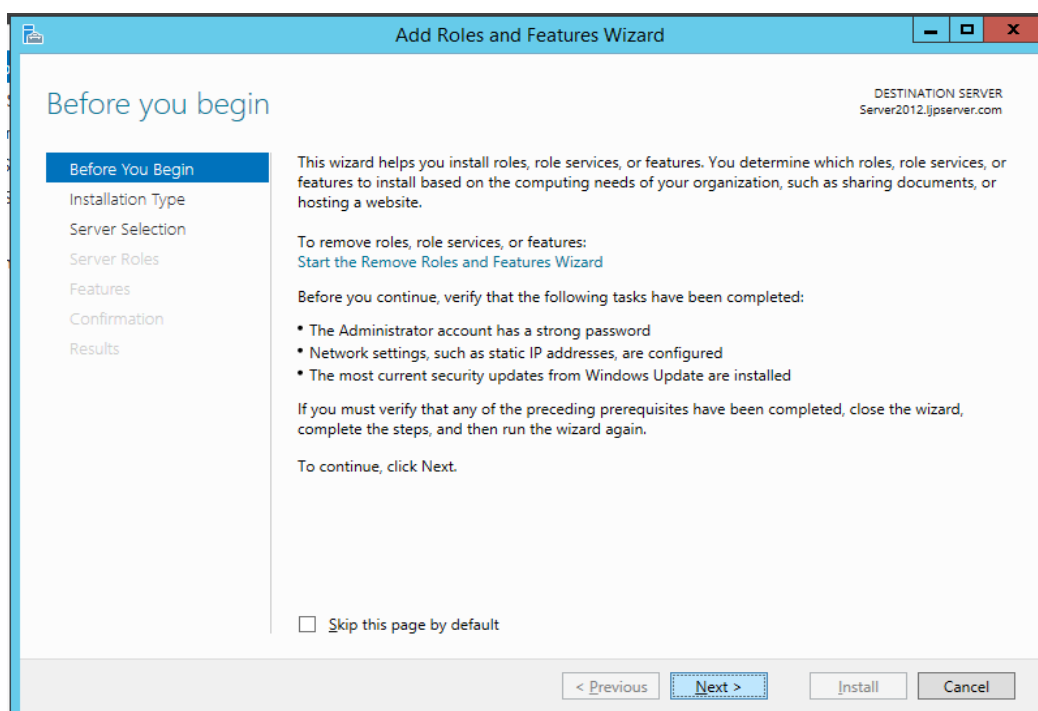
3.   In the **Select installation type** page, select **Role –based or feature-based Installations,** click **Next.**
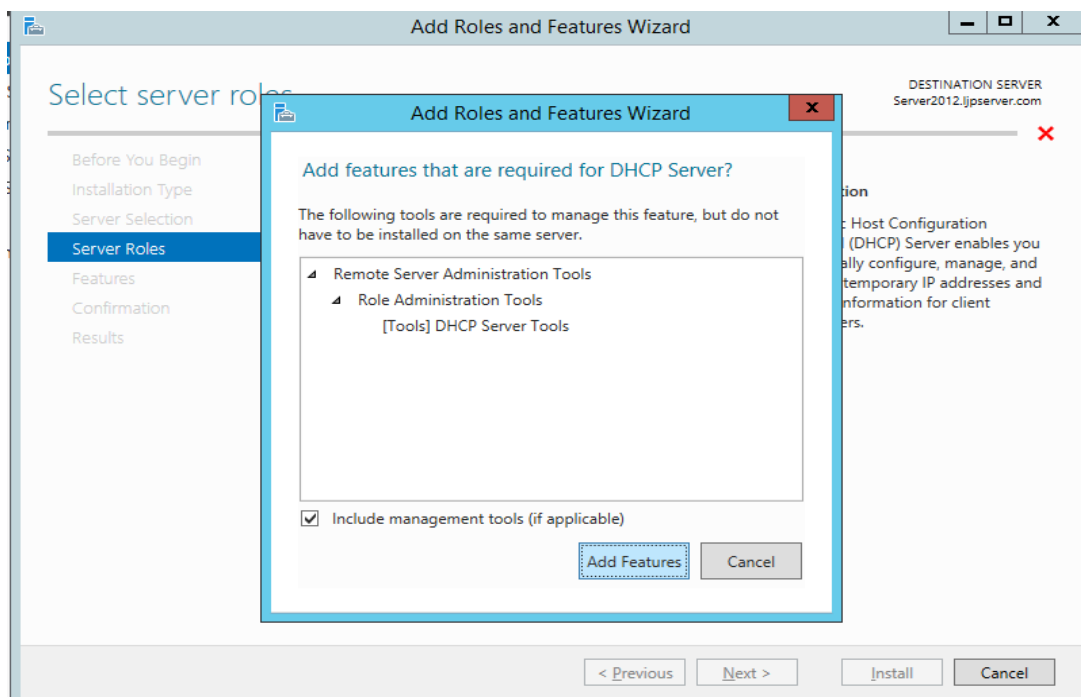

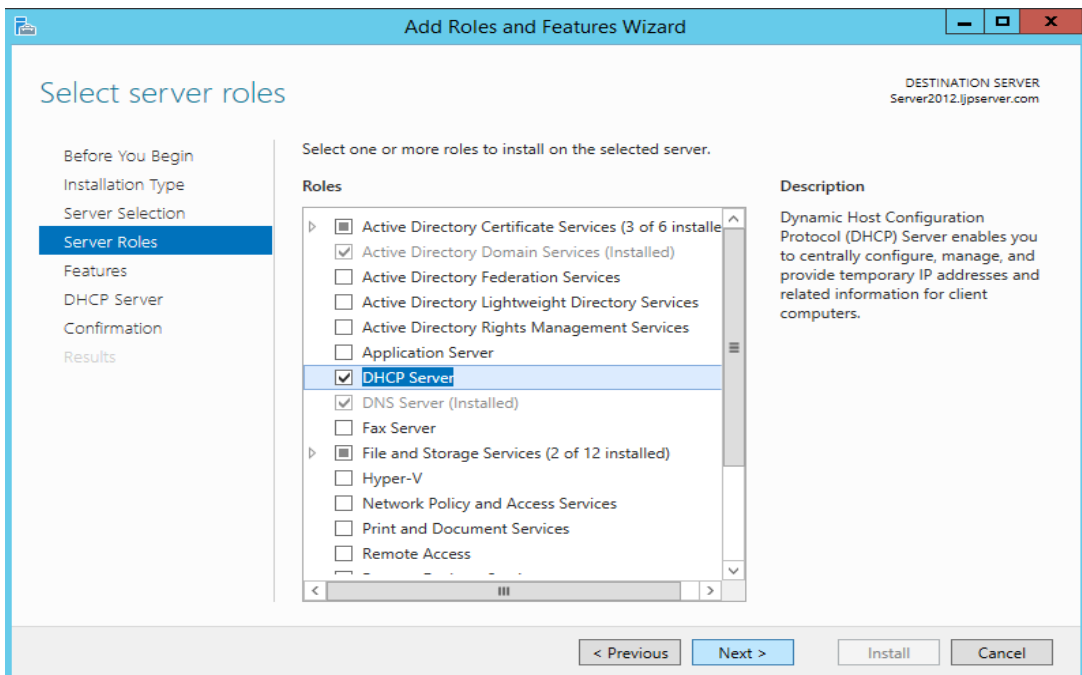**4.** On **Select destination server** page, select your server name and then click **Next**.

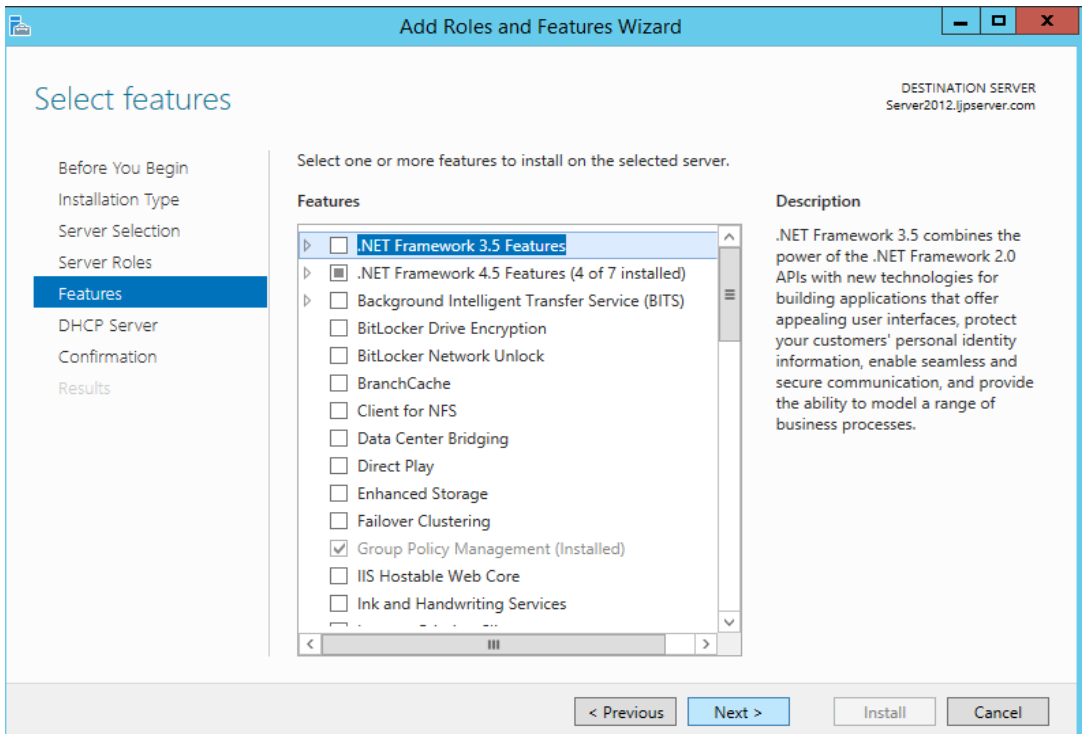**5.** On the **Select server roles** page, select the **DHCP Server** check box.

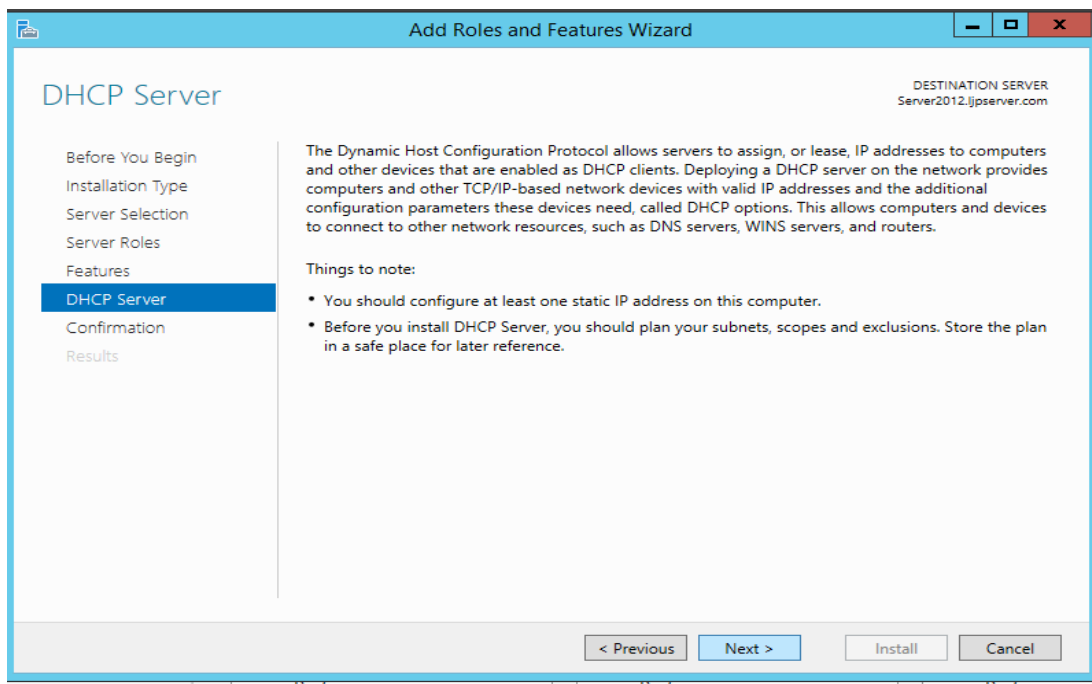**6.** In the **Add Roles and Features Wizard**, click **Add Features**.

7. On the **Select Server Roles** page, click **Next**.

8. On the **Select features** page, click **Next**.
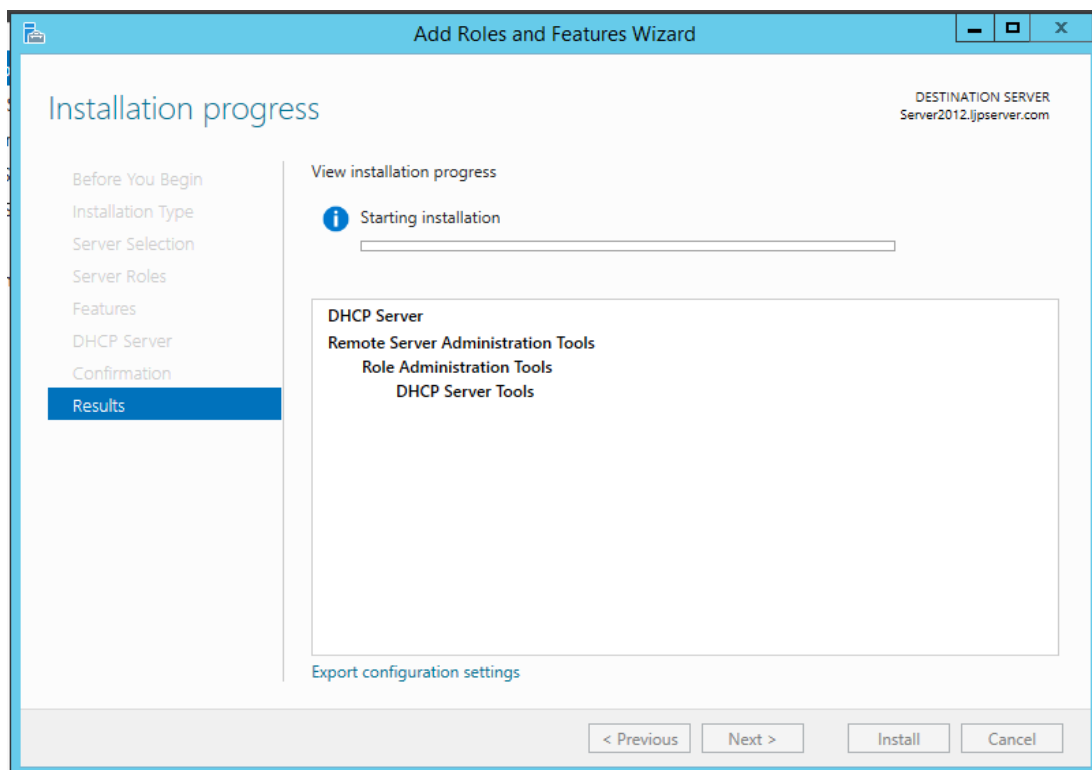
9. On the **DHCP Server** page, click **Next**.

10. On the **Confirm installation selections** page, click **Install**.

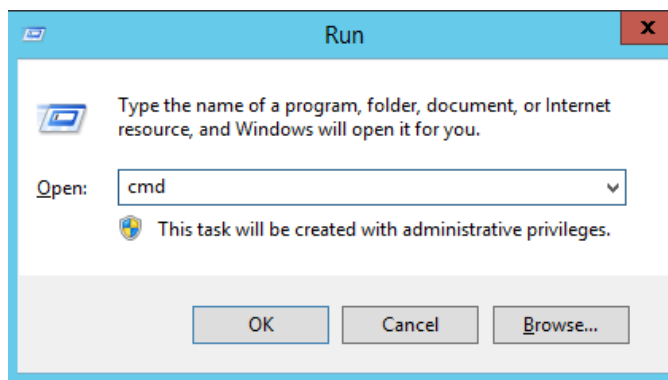**11.** On the **Installation progress** page, wait until the **Installation succeeds**.

PRACTICAL 14

Practical Definition :

➢ Install and Configure DNS on Server 2012

Configure a Static IP Address

1. From the desktop, use the keyboard combination of the **Win**+**r** keys to bring up the run Prompt. In the open box, type **cmd** and click OK.


2. At the command prompt, type **ipconfig.** This brings up the dynamic IP address assigned to your network adapter. Take not the encircled information as you will need it to configure your adapter statically.
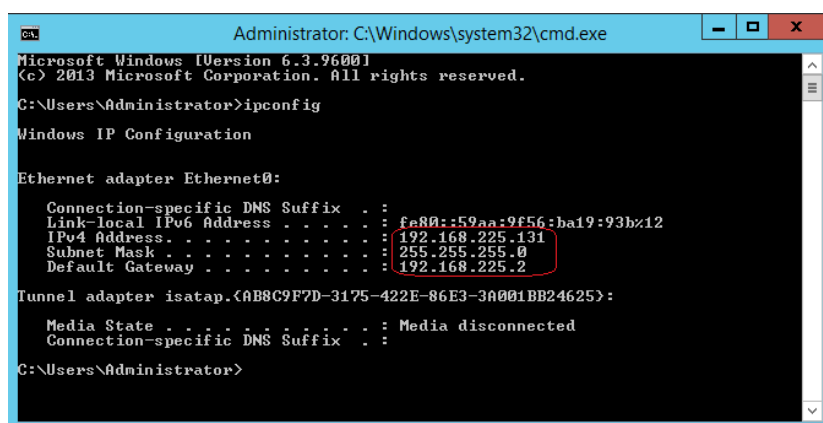
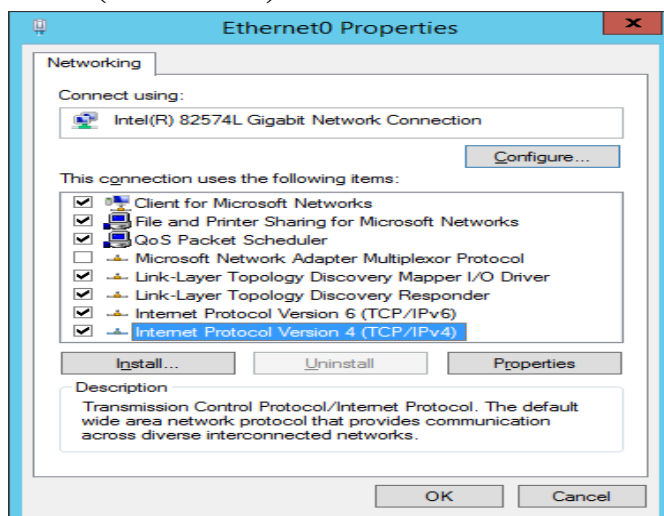**3.** From the lower right of your taskbar, right click on your network status icon and select **'Open Network and Sharing Center.'**
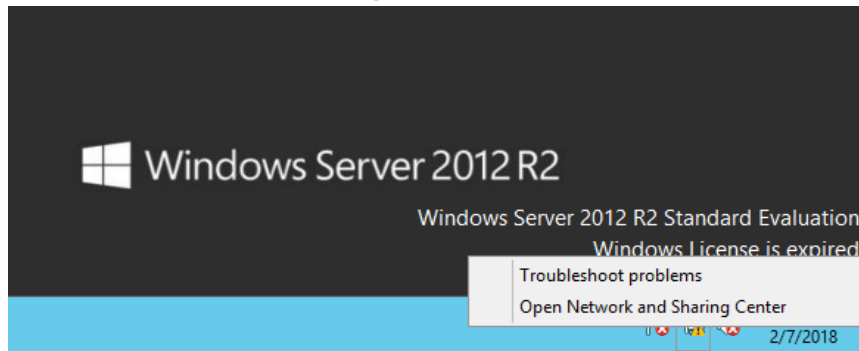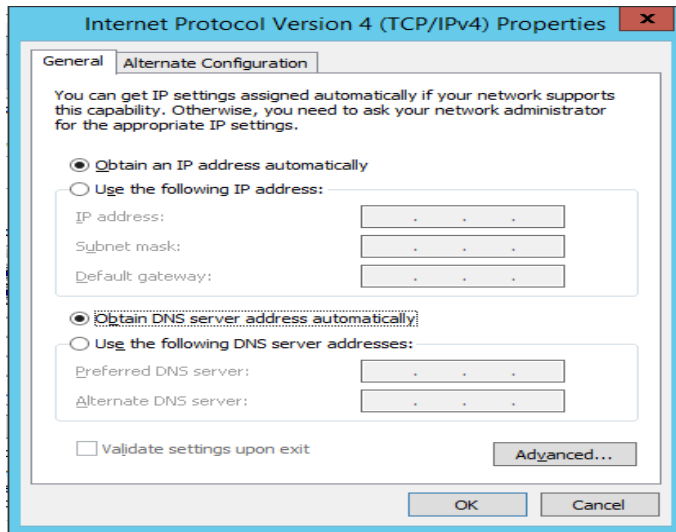

4. Once the Network and Sharing Center opens, from the left menu click on **'Change adapter settings.'**
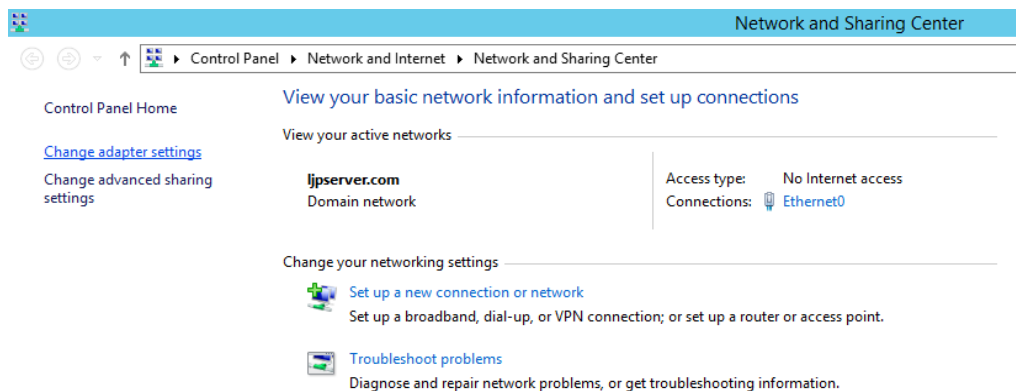
5. From the properties page of your Ethernet adapter double click **Internet Protocol Version 4 (TCP/IPv4).**

6. This brings up the TCP/IP v4 properties page. Select the radio button for, **"Use the following IP Address"**.
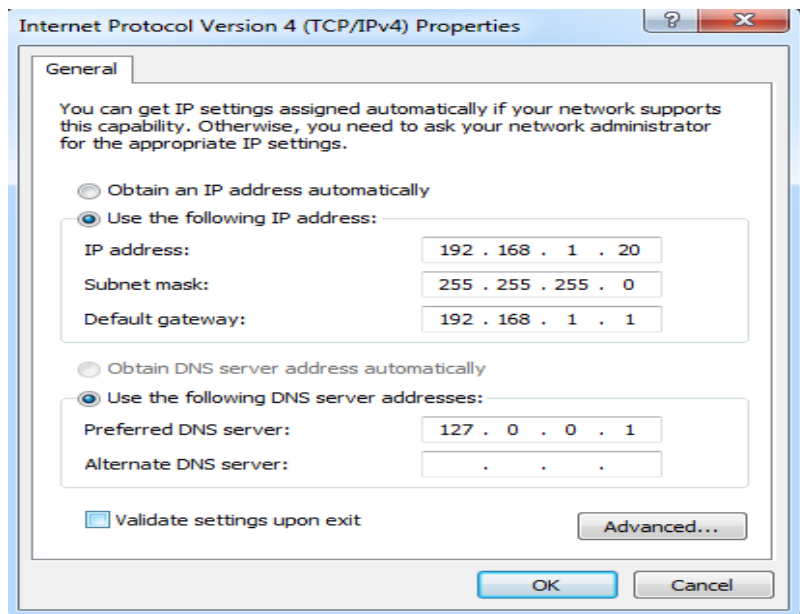

7. Provide IP address:
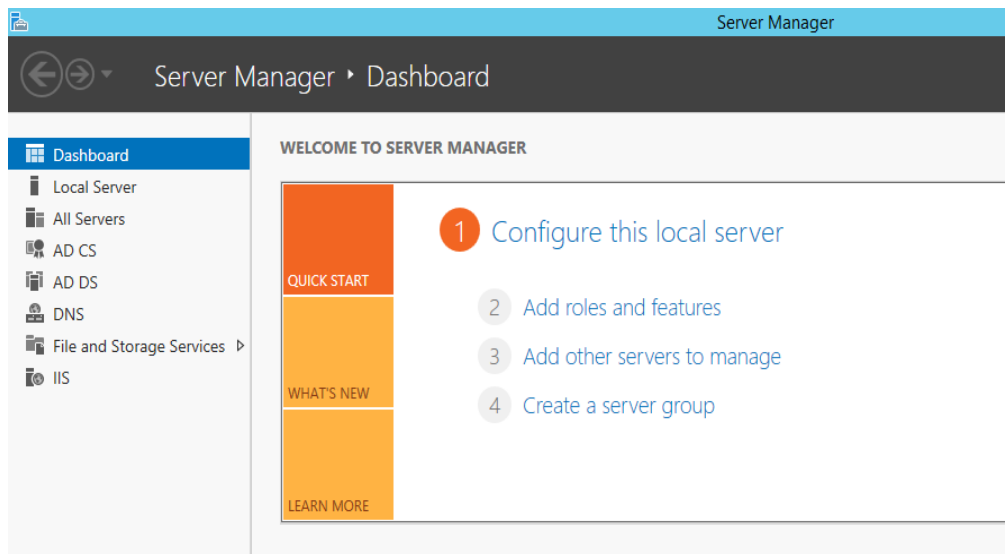
Subnet mask:

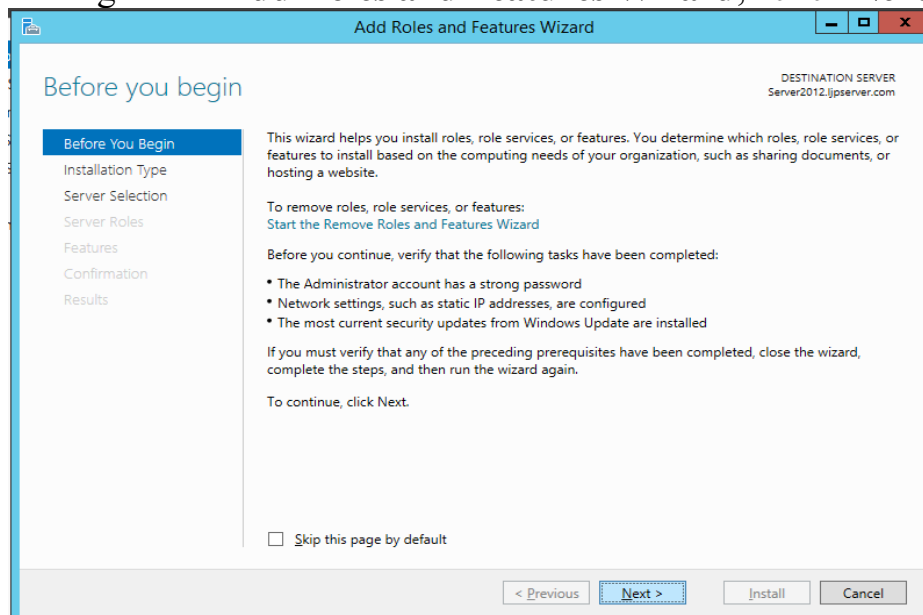Default gateway:

Preferred DNS server:

Etc.

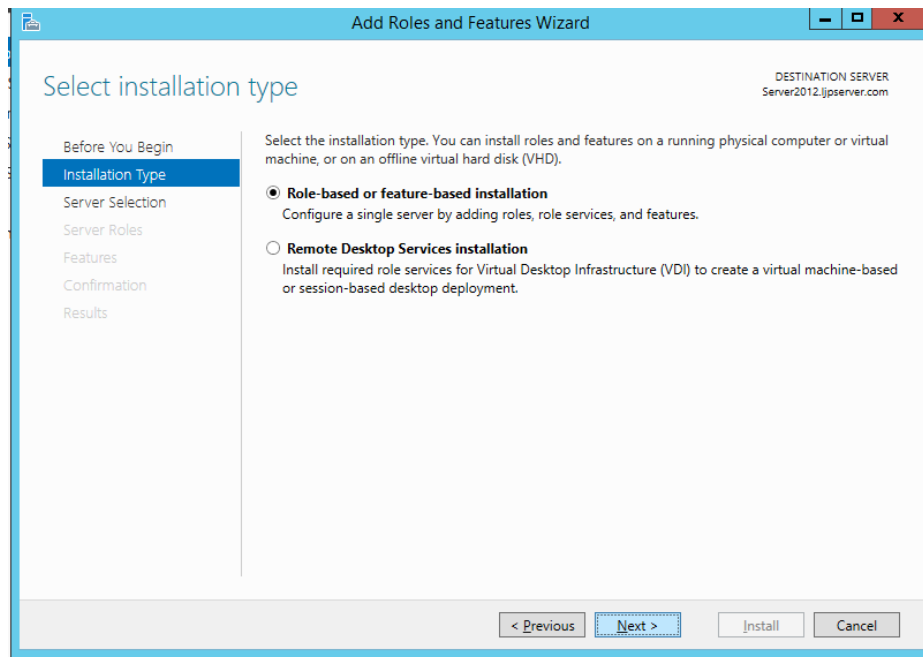Then click **OK**. One more time **Ok** to close Ethernet0 properties.

1. Launch your **Server Manager**. On Dashboard, click on "**Add roles and features**."

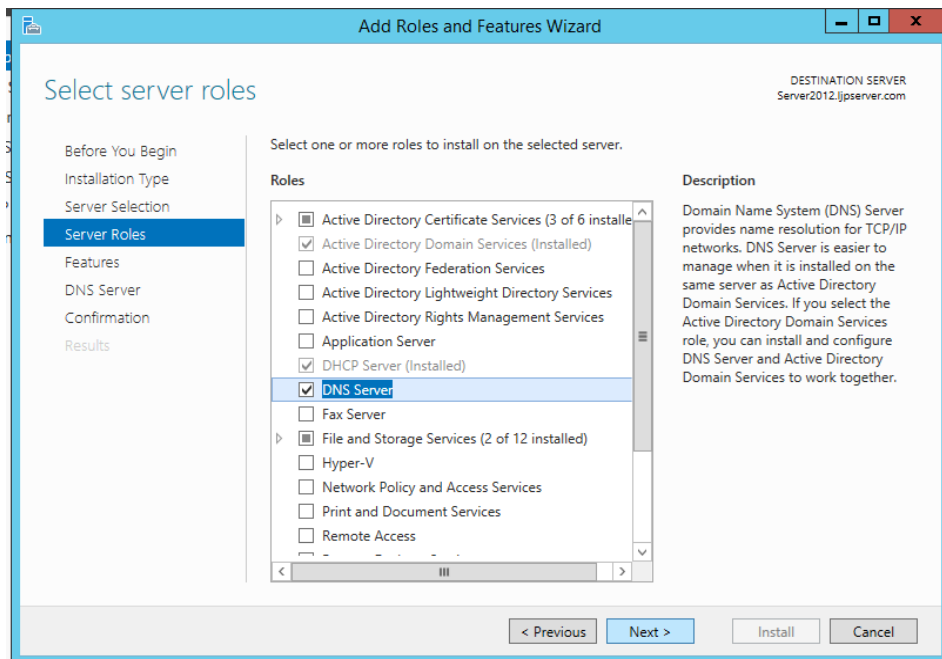2. You will get the "**Add Roles and Features Wizard**," click **Next**.

3. Select "**Role-based or feature-based installation**," click **Next**.

4. In "**Select destination server**" screen, most likely you will only see one selection, which is the server you are on if not, select the **server** you want to add the DNS role to and click **Next.**
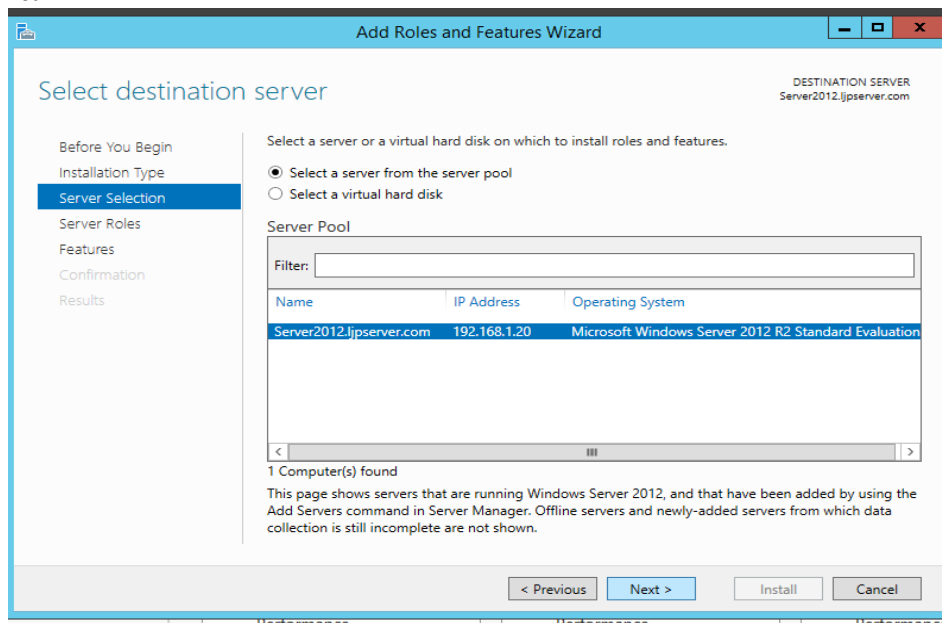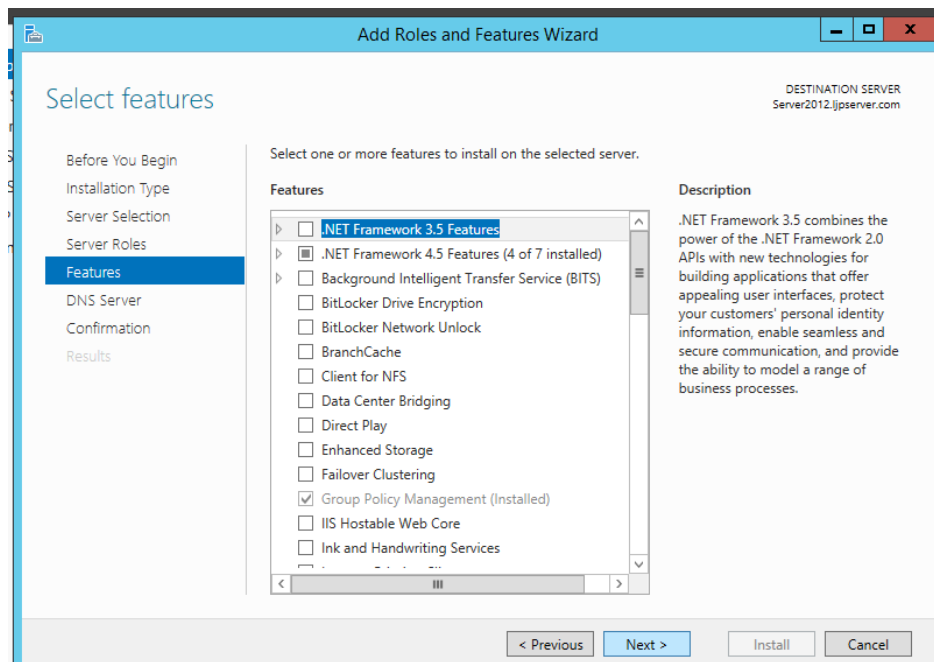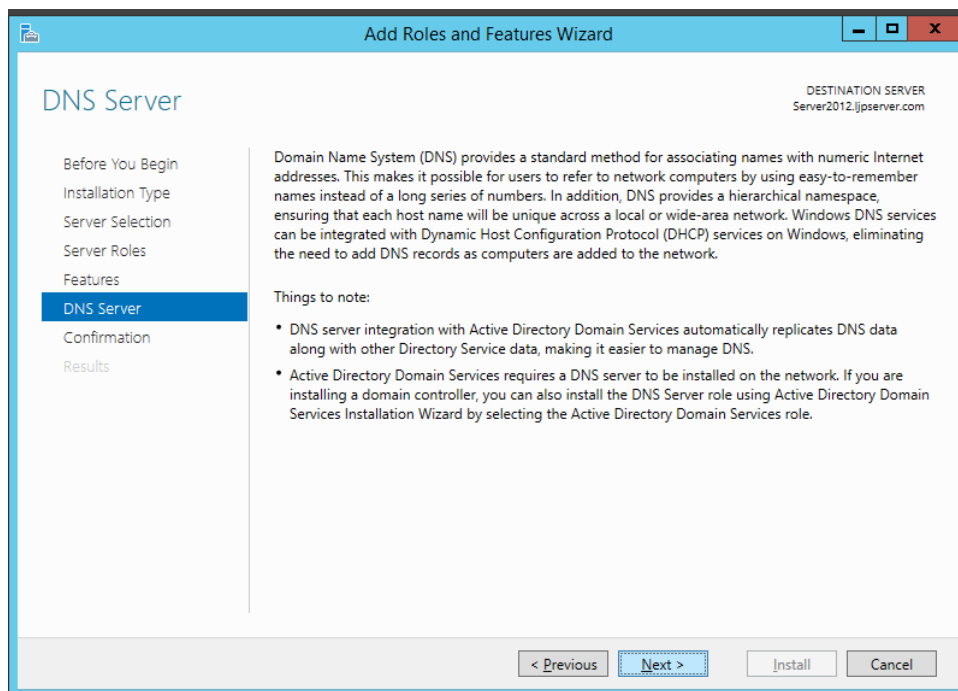

5. Check the "**DNS Server**" box.

6. A smaller window will launch to confirm that there are other features that need to be installed with your DNS role, click on "**Add Features**" then click **Next**.
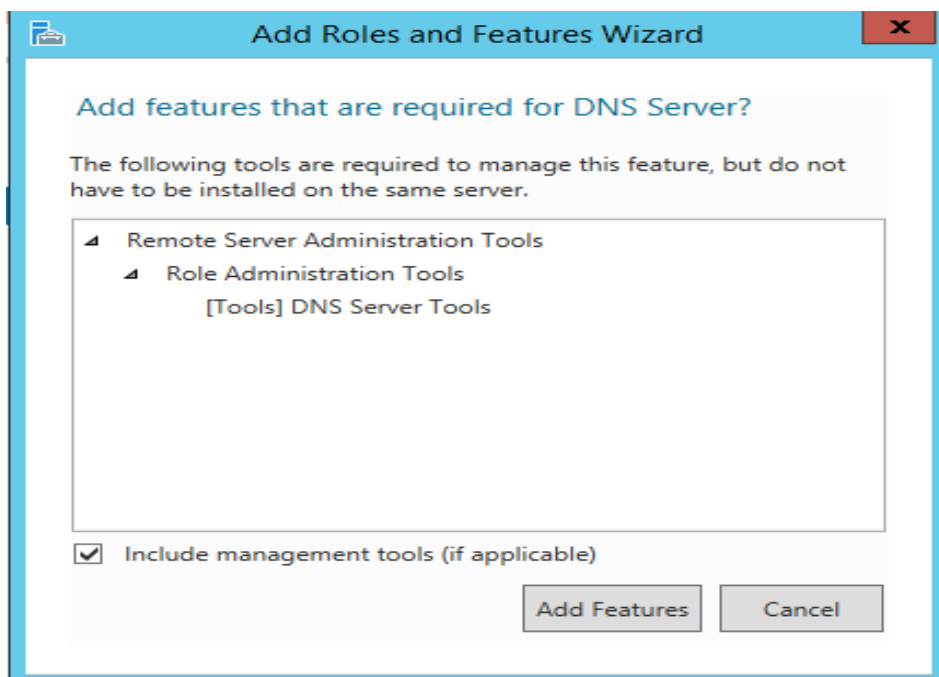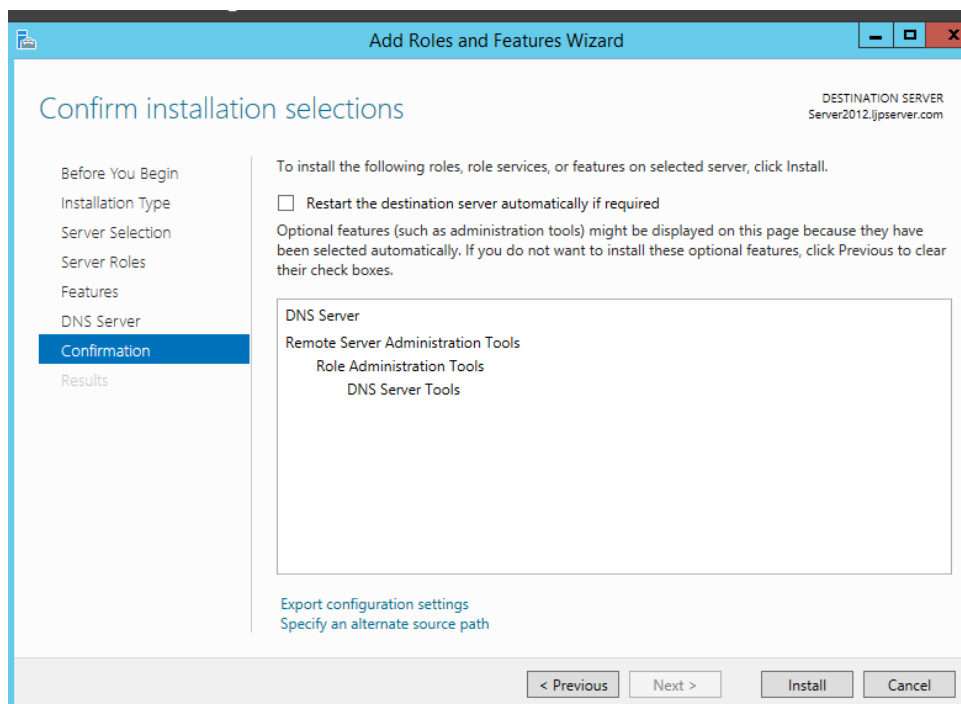

7. You do not have to select anything in the "**Select features**" screen, click **Next**.
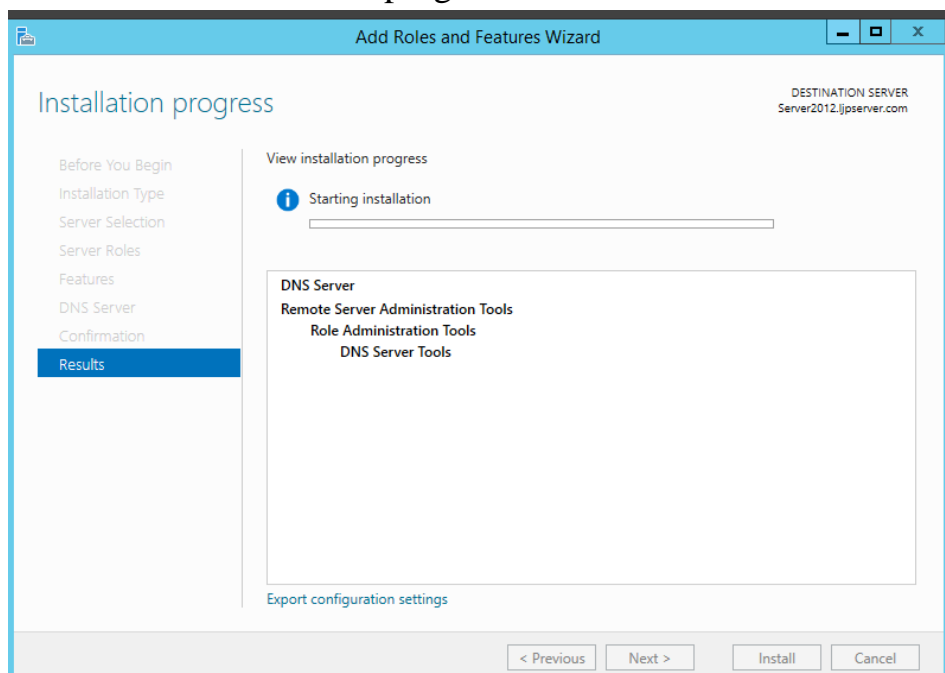
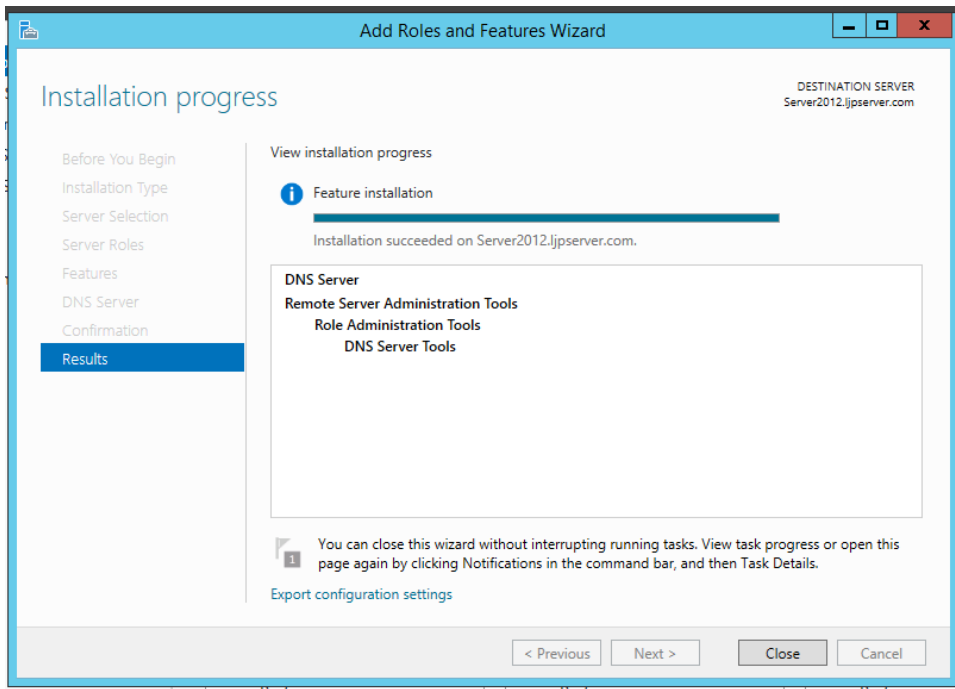**8.** In **DNS Server** page click **Next**.

9. Here we just have a confirmation of what we are installing and what features, click **Install**.

10. You will see the installation progress here.

11. Once installation is completed, click **Close**.

12. Once the installation is done, DNS should be installed; you will also notice an entry for **DNS** inside the context menu for **Administrative tools**.