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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.
6	Installing Windows 7 Operating System on VMware.
7	Configuring Windows 7 Operating System on VMware.
8	Installing Active Directory Using Server Manager.
9	Promoting Server to Domain Controller.
10	Creating Active Directory Objects.
11	Create new Users & assign privileges/ Permission.
12	Modify/ Delete/Deactivate Users and groups.
13	Install and Configure DHCP on Server 2012.
14	Install and Configure DNS on Server 2012.
15	Setting up and configuring local print device.
16	Setting up and configuring network print device.
17	Implementing Group Policy in Windows Server 2012 R2
18	Creating Mapped Drive using Group Policy.
19	Manage Desktop Configuration using Group Policy
20	Installing and Configuring Backup Services.

PRACTICAL 8

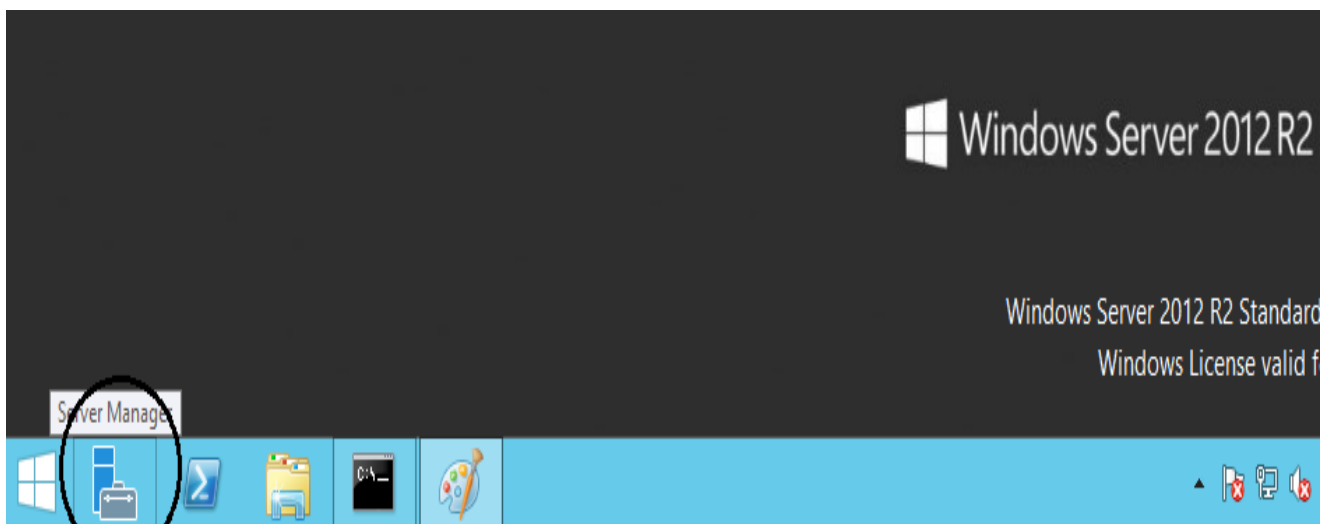
Practical Definition :

- Installing Active Directory Using Server Manager.

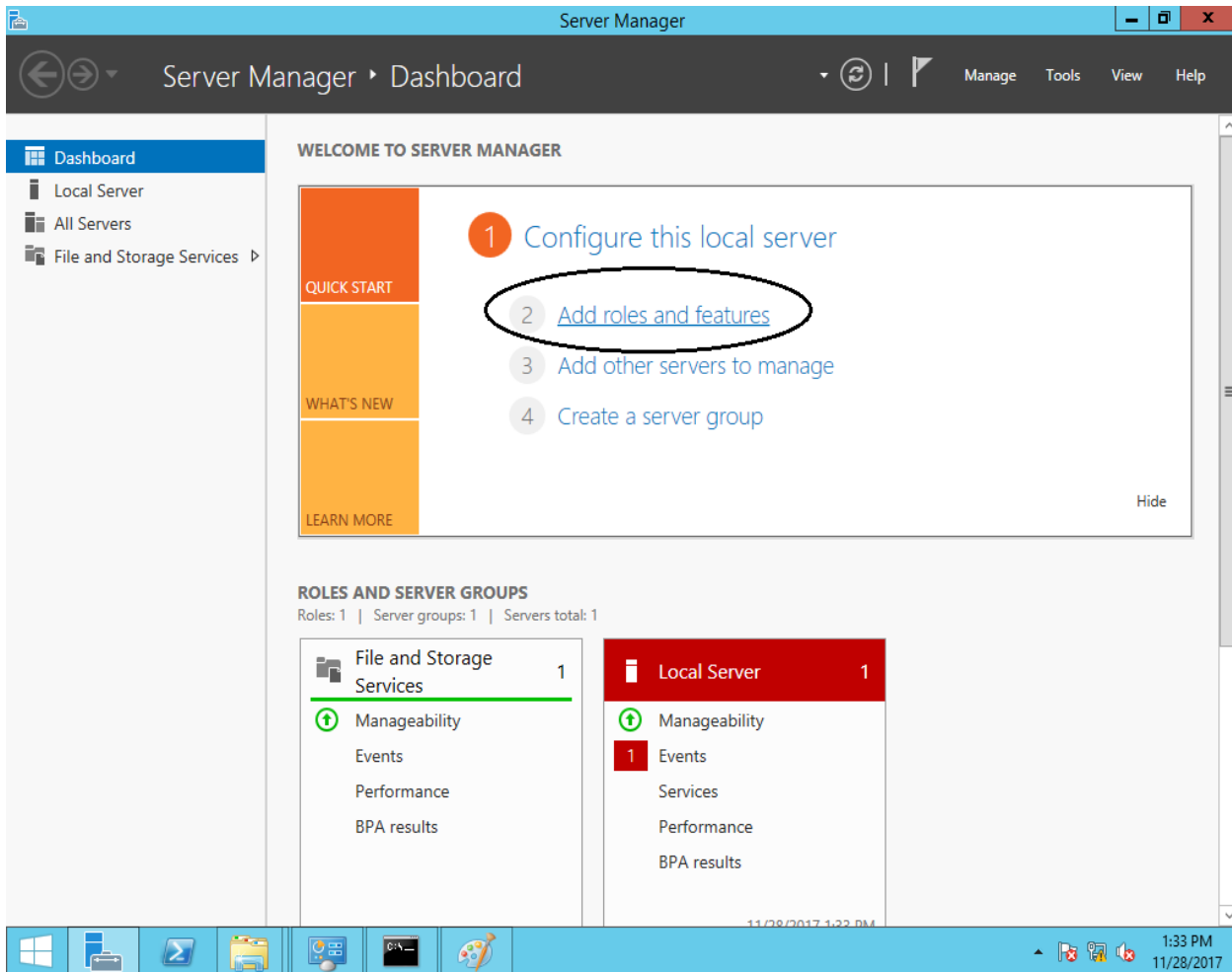
⇒ Domain controllers hold the domain's Active Directory information and authenticate users and access to resources. Most Windows Server 2012 networks have at least one domain and, therefore, need at least one domain controller.

⇒ Steps to install Domain controller on Windows Server 2012 are

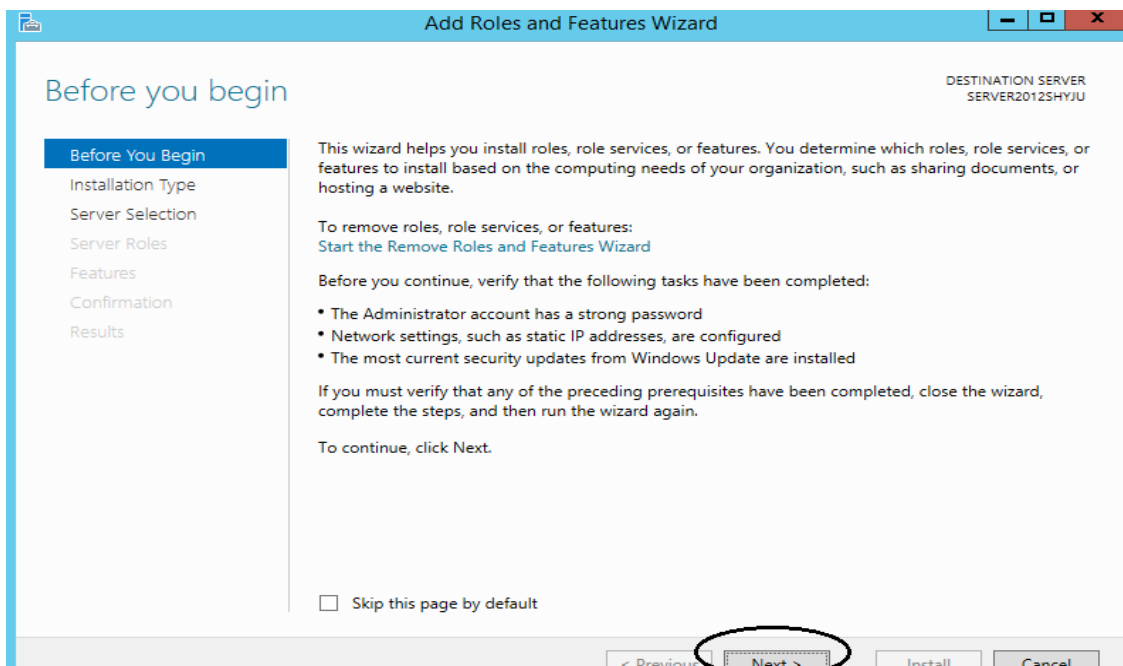
1. Open the Server Manager from taskbar.



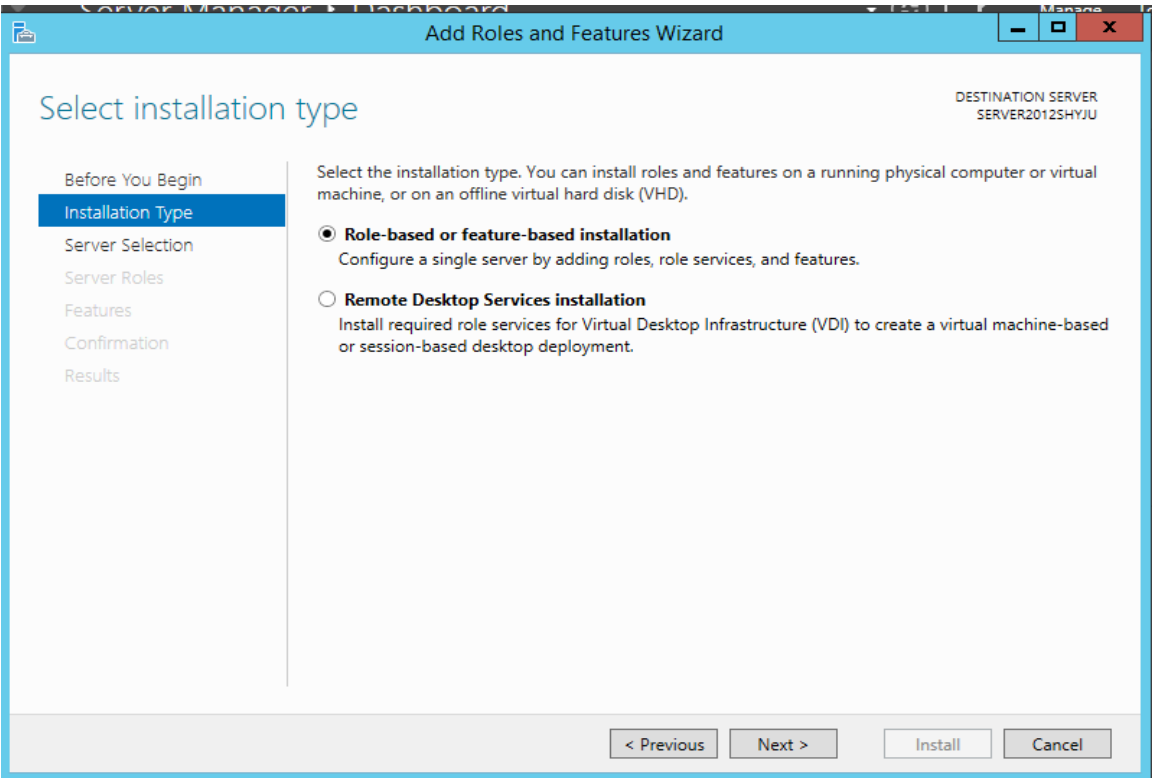
2. Click on “Add roles and features” from the Dashboard



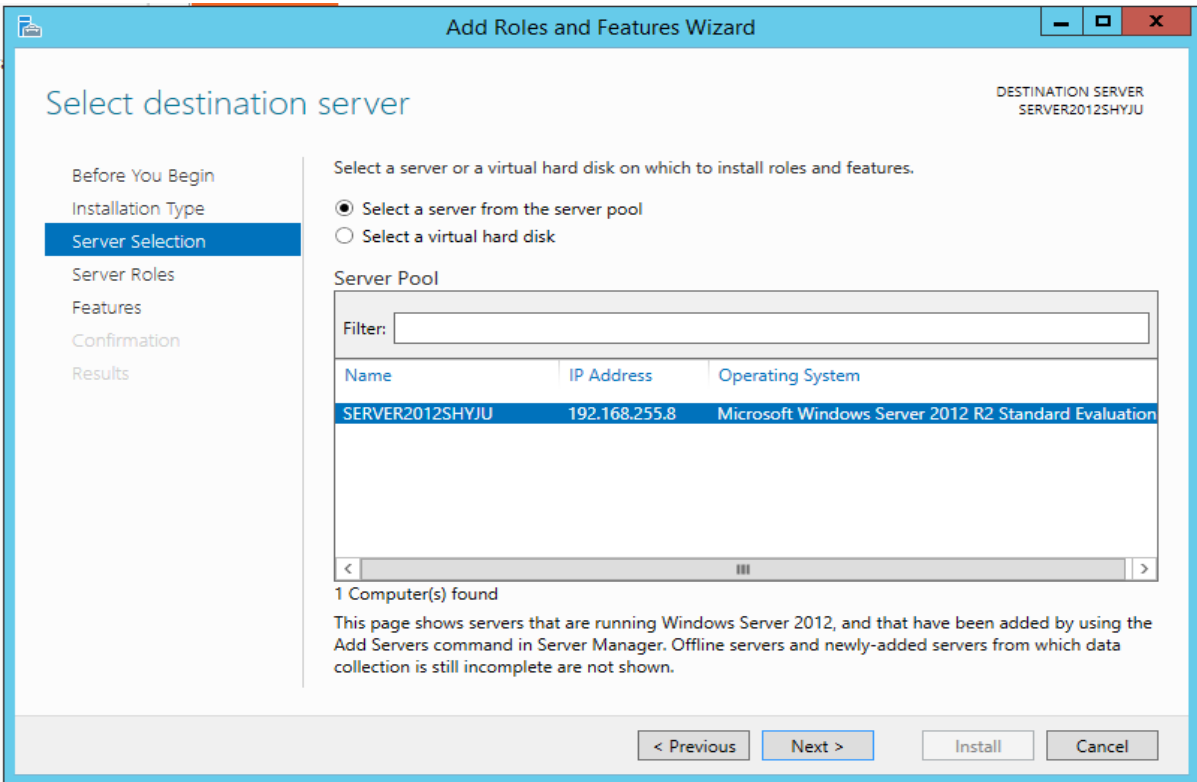
3. Click Next on the “Add Roles and Features Wizard” Welcome page.



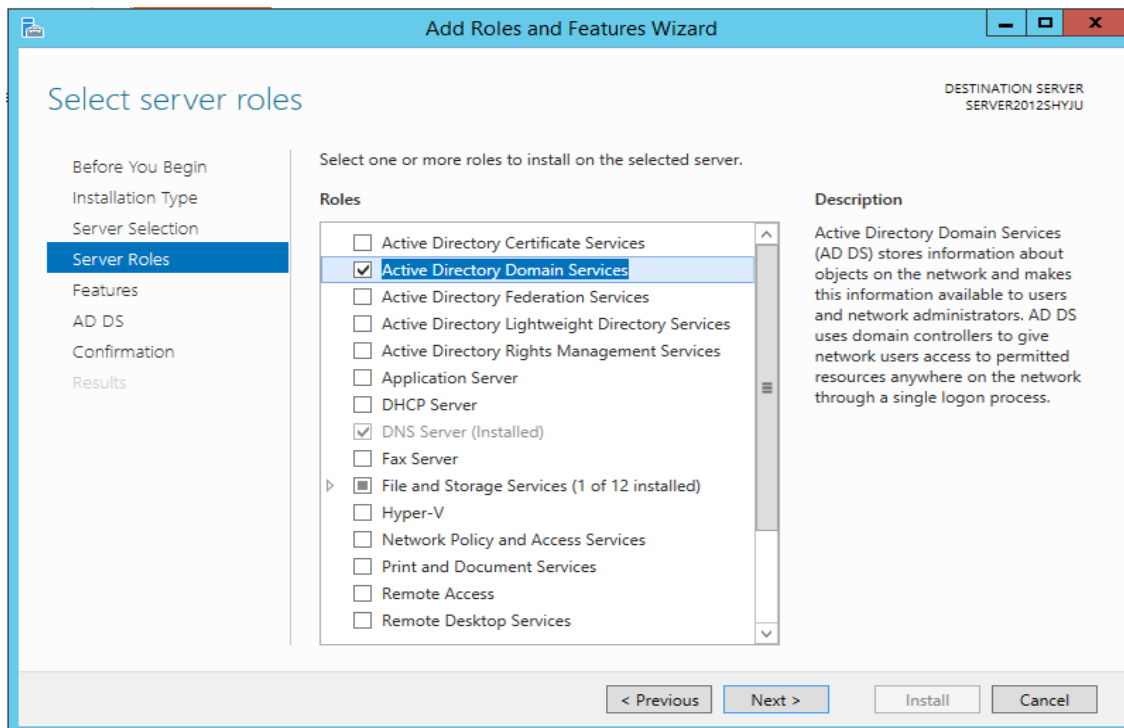
4. Make sure “Role-based or feature-based installation” option is selected.



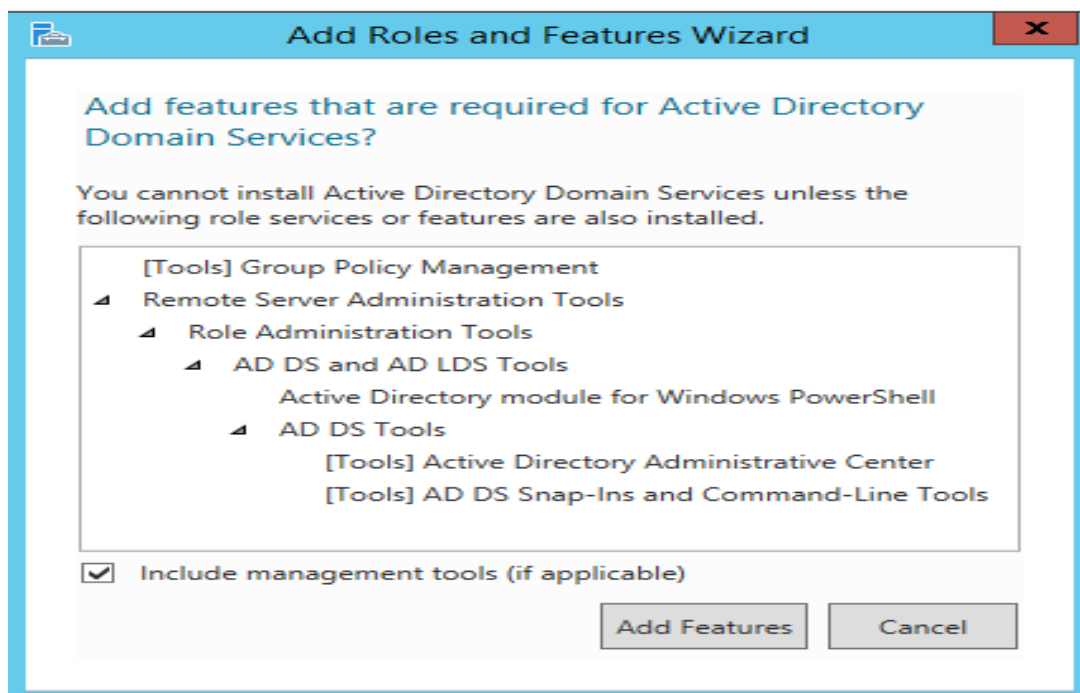
5. Select the destination server where this new role would be installed.



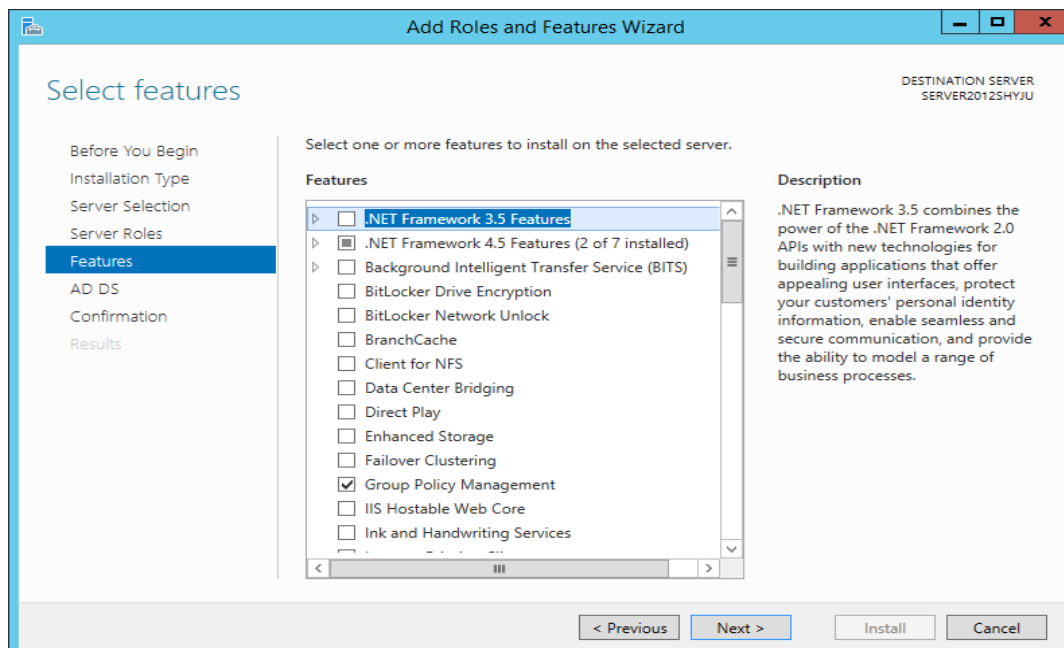
6. Select the checkbox Active Directory Domain Services.



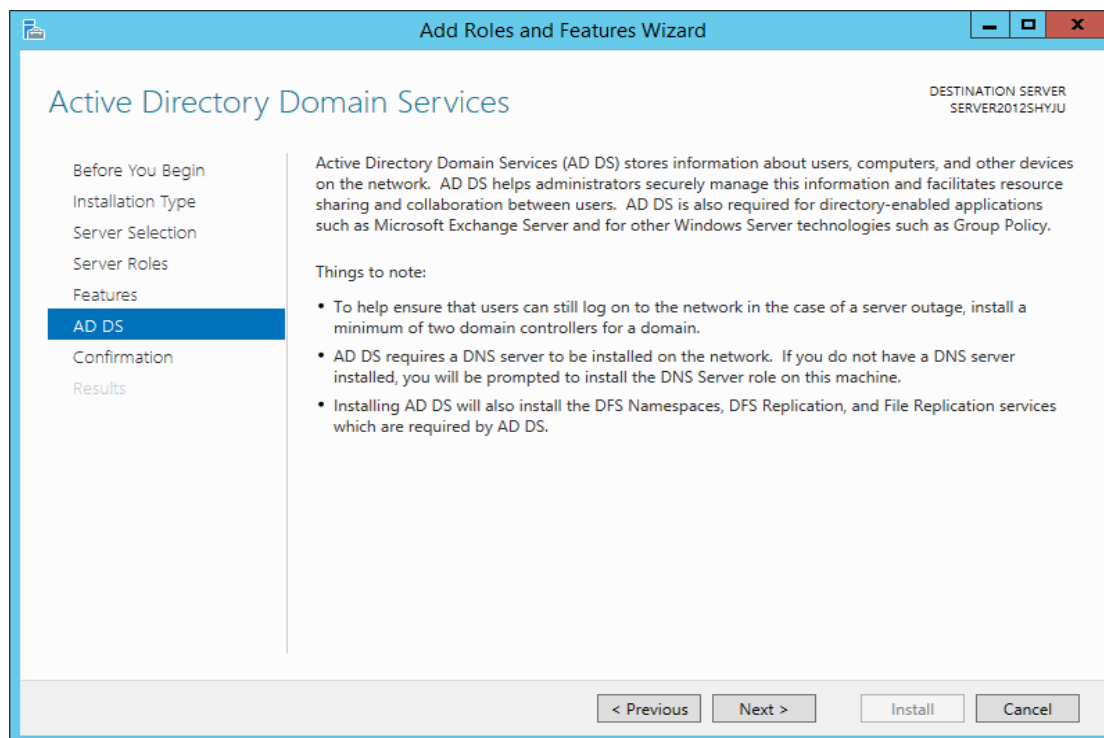
7. Confirm the features required to installation Active Directory role. Confirm the same and click on Add Features to proceed.



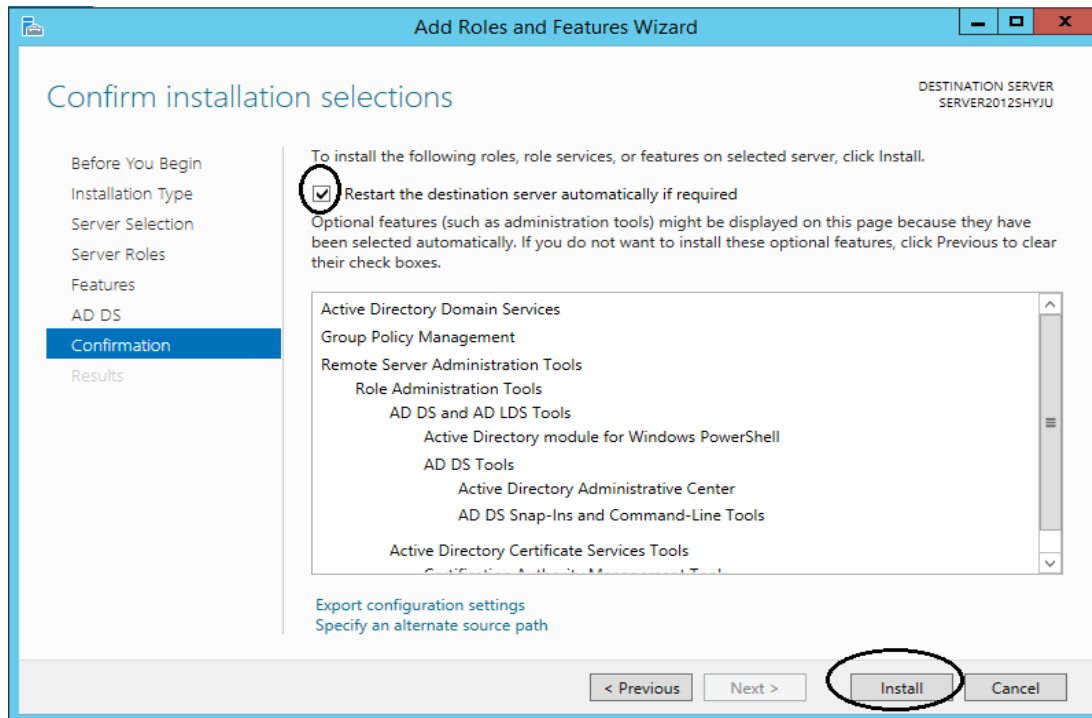
8. Select any other features that need to be installed along with Active Directory.



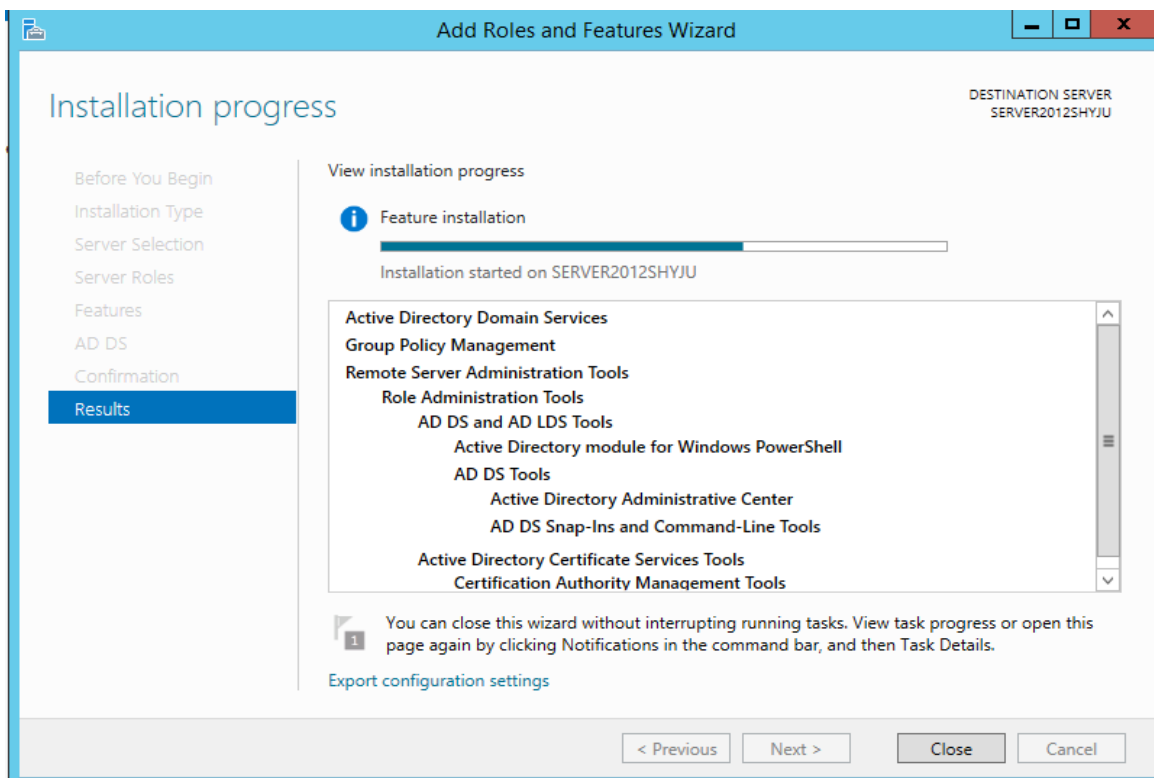
9. Review the notes and click **Next**.



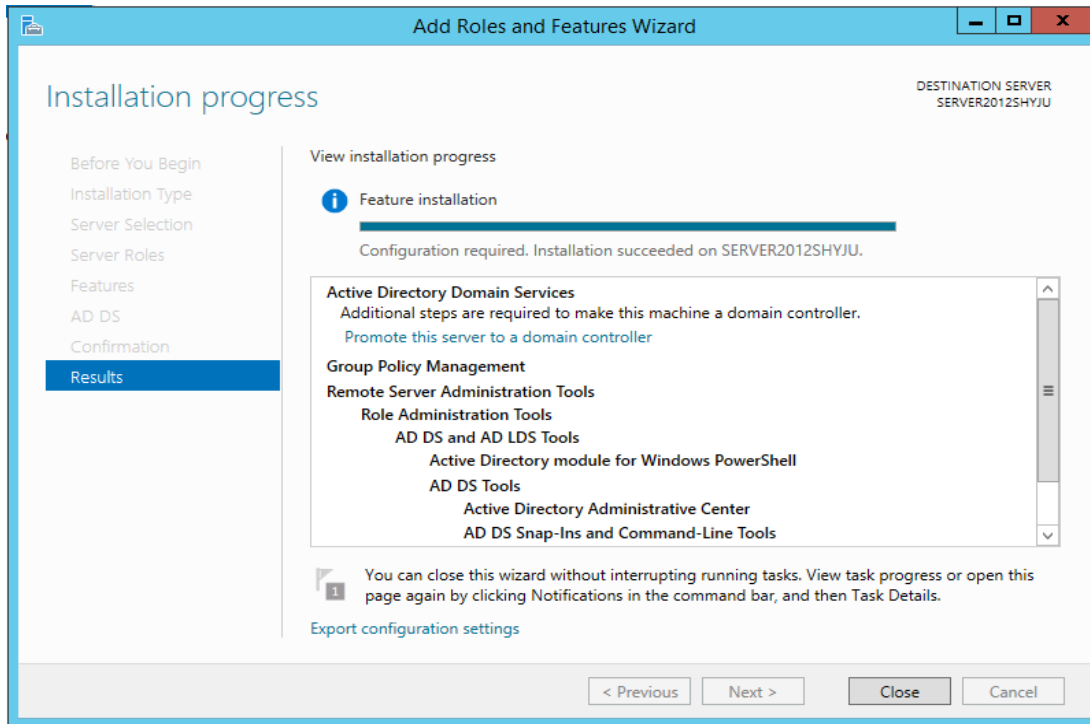
10. A restart may require once installation is completed. Select the checkbox to restart the server, if required.



11. Once you click Install, the process of installing active directory begins



12.After successful completion of installing role Active Directory Domain Services following screen will be displayed



PRACTICAL 9

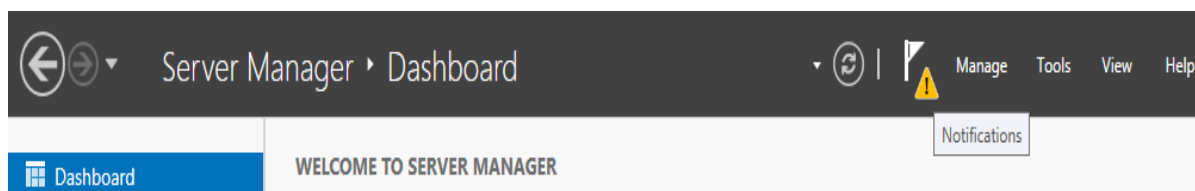
Practical Definition :

- Promoting Server to Domain Controller.

Promoting Server 2012 R2 to a Domain Controller

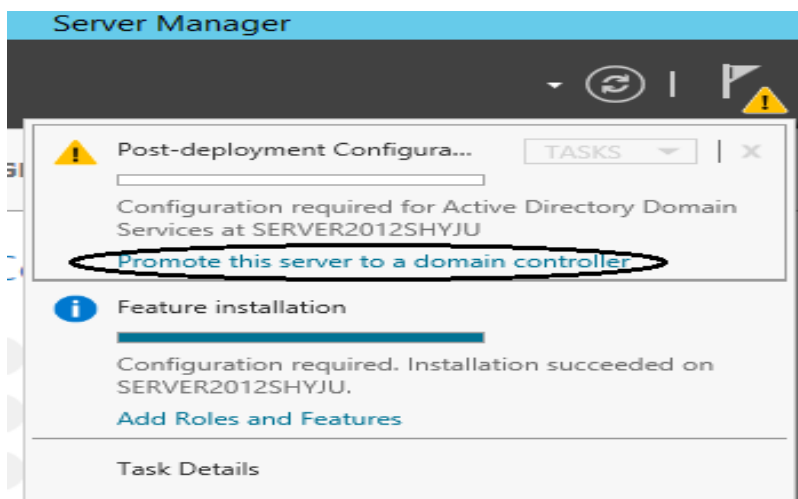
⇒ Once Active Directory Domain Services role has been installed, we can promote our server to a Domain Controller by following the below steps.

1. When we return to Server Manager, there is an information message waiting for us. This is the second part of the role installation that converts the server to a domain controller.

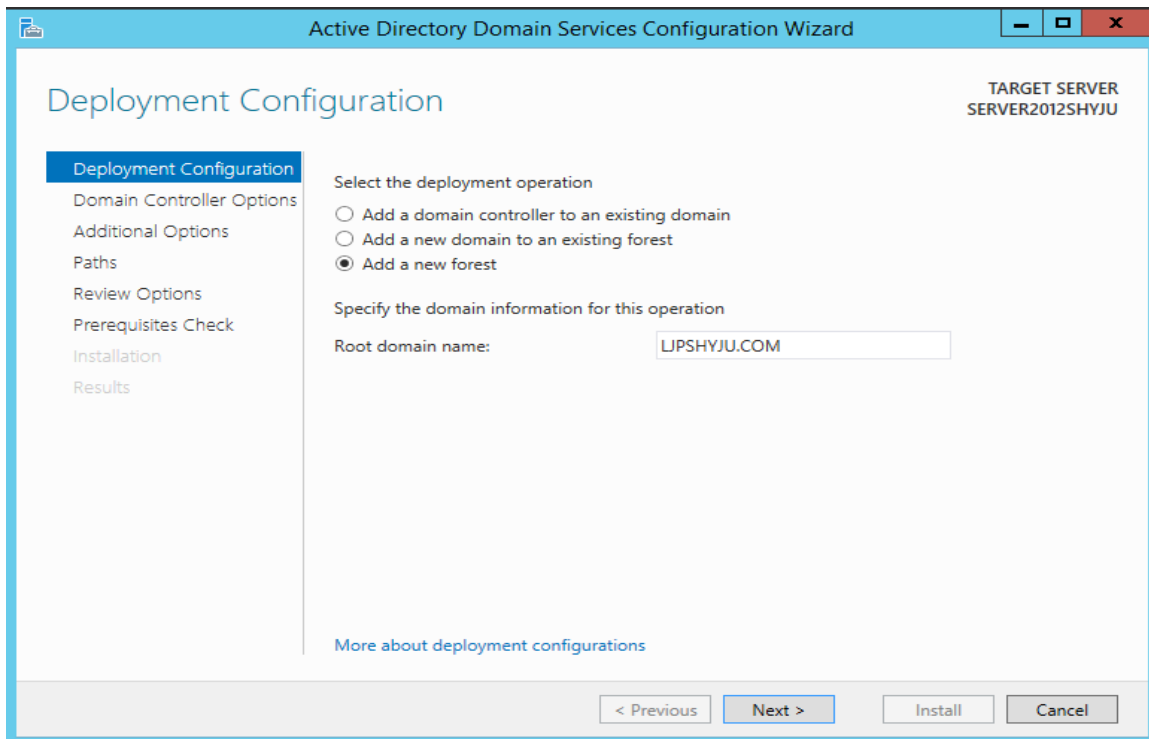


2. Click on Notification you will see the option “Promote this server to a domain controller.” Click on this link for role promotion.

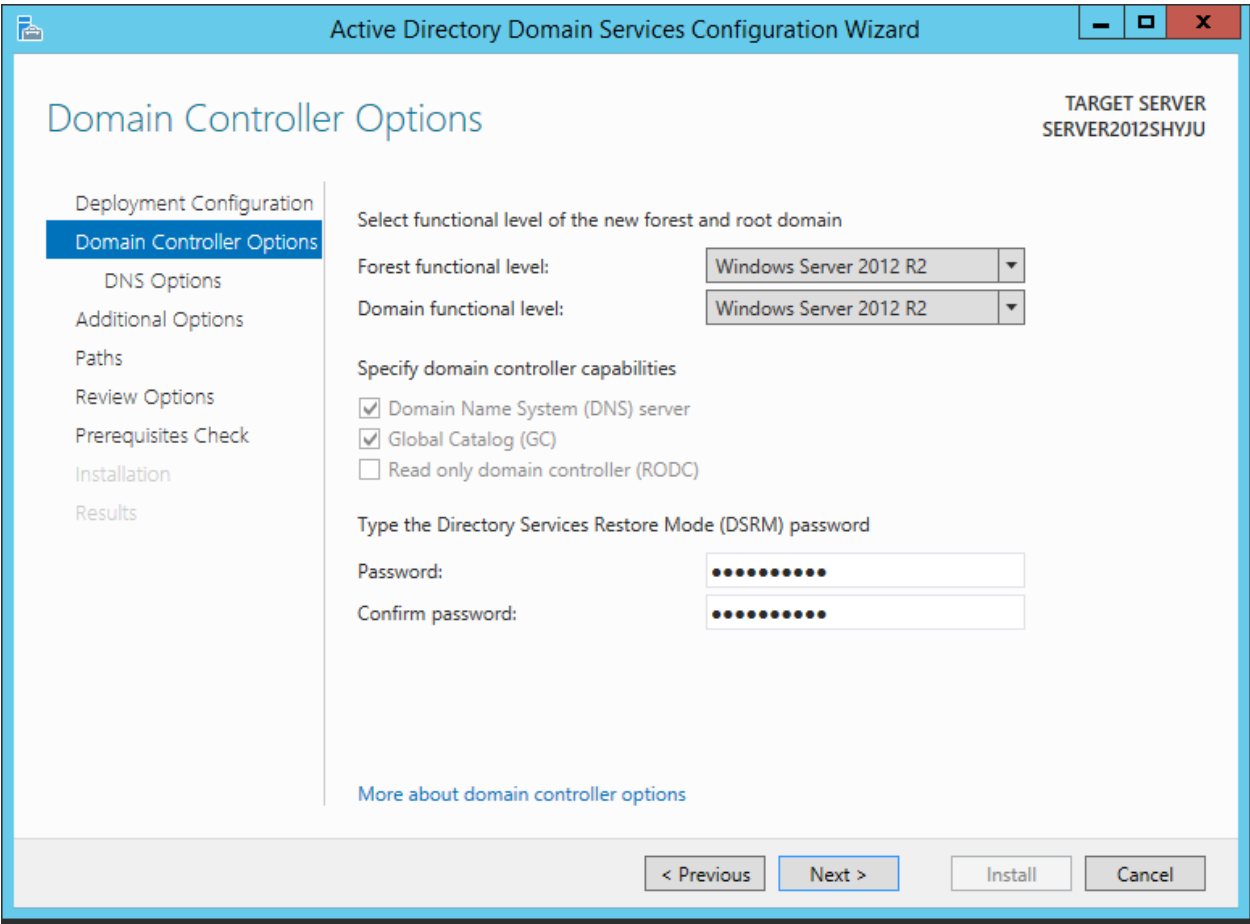
If we click on the message, “Promote this server to a domain controller” the second wizard will start.



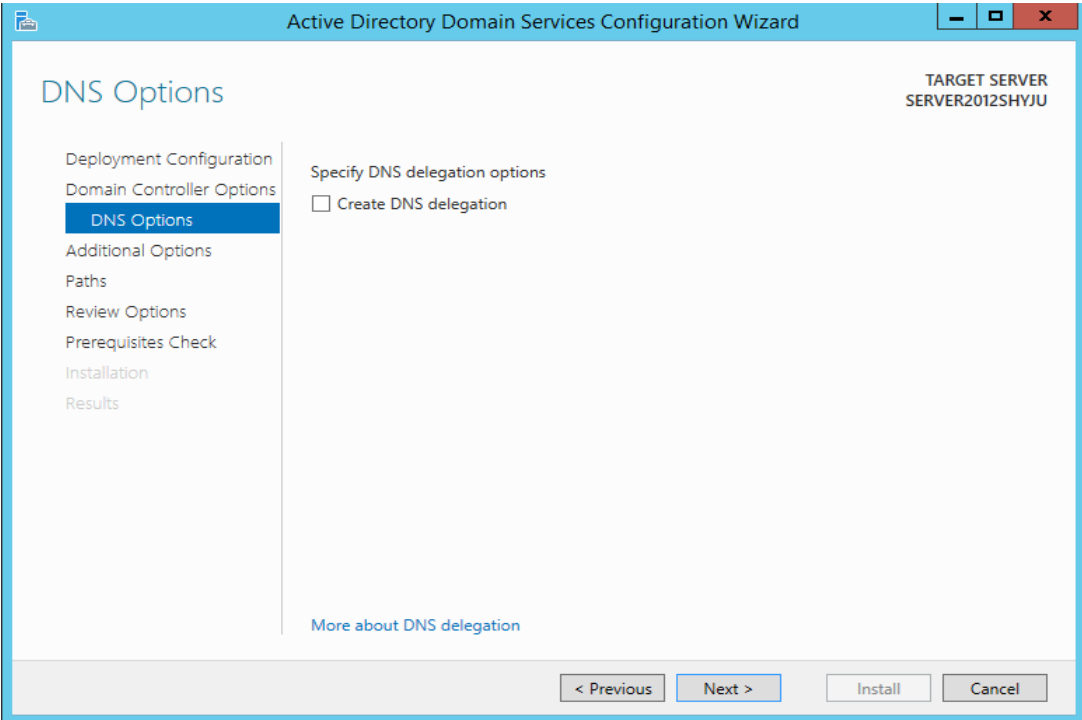
3. Click on the “Add a new forest” radio button and enter the name of the new root domain. Click Next



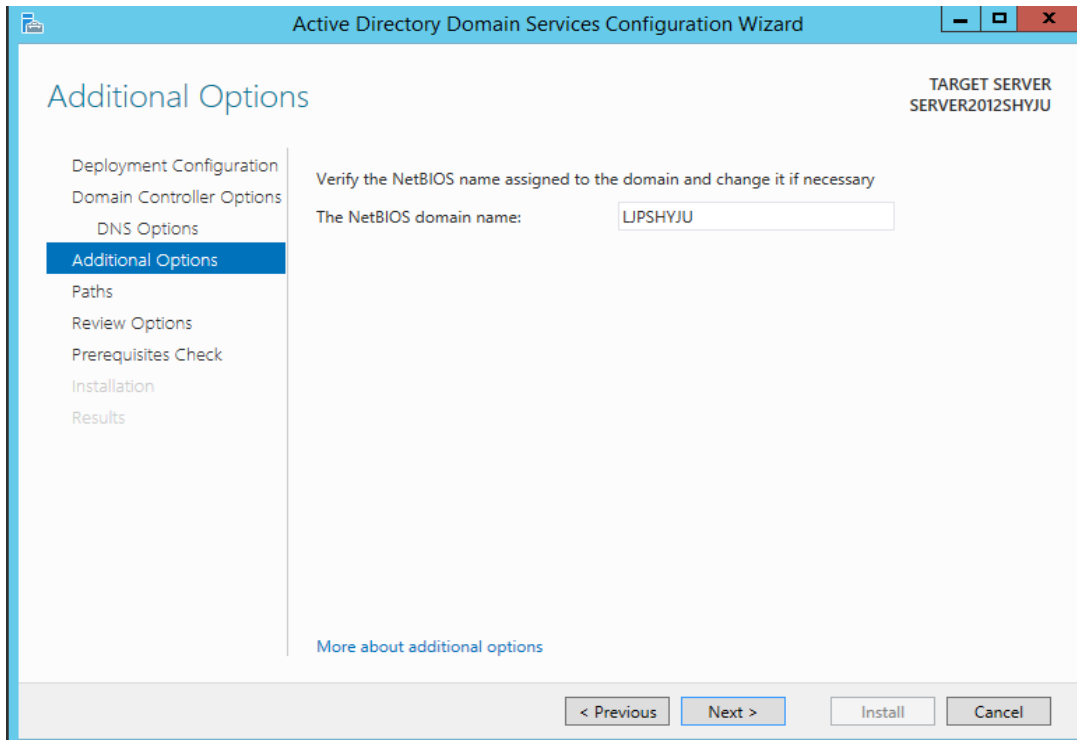
4. If we did not have DNS installed, the option to install DNS would be provided. Check the box to install DNS as it is a requirement for Active Directory. If it is grayed out, you already have it installed and running. Leave the function for Server 2012 R2 as is. If we had server 2008 running on the network, we downgrade the function to accommodate the need for backward capability. Type the Directory Services Restore Mode (DSRM) password in Domain Controller Options window.



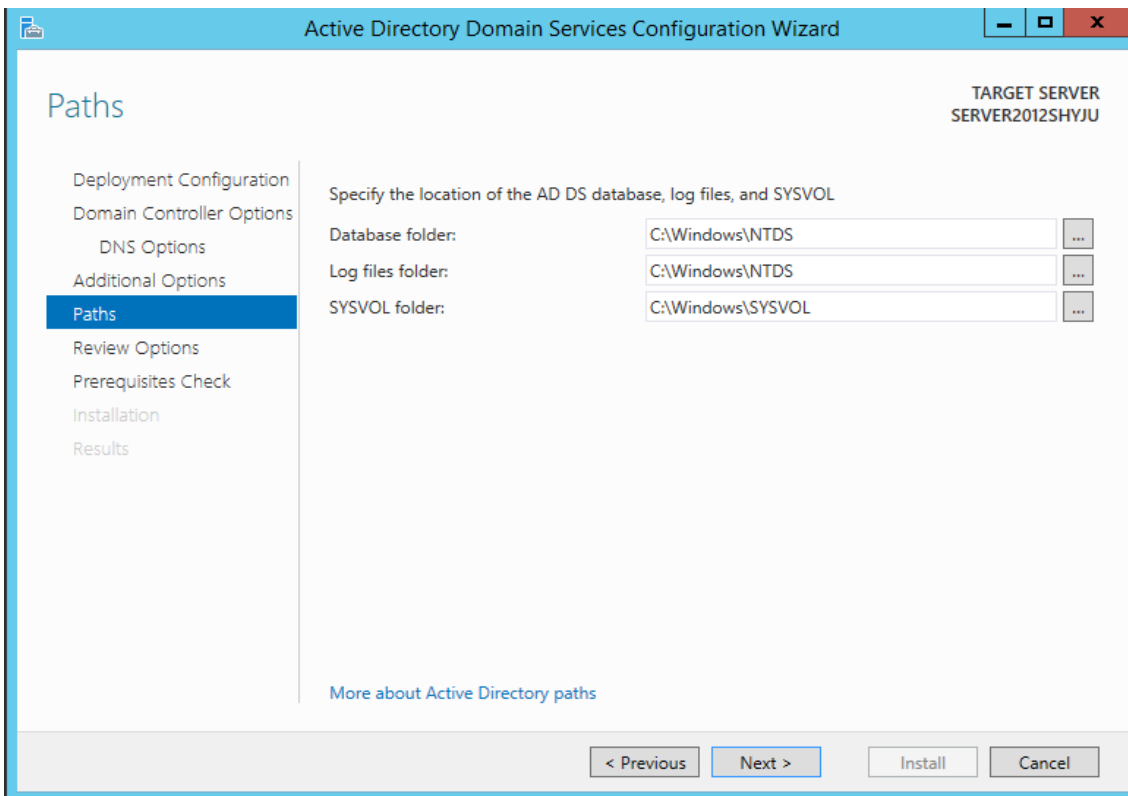
5. Uncheck the box DNS delegation if authoritative zone is available. Click next.



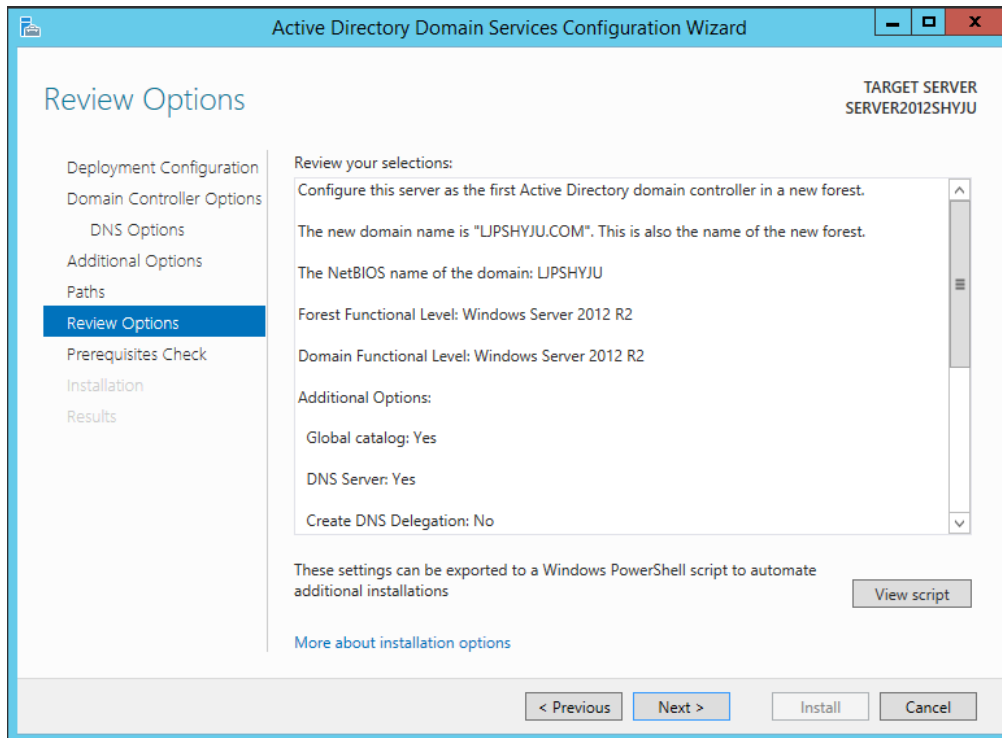
6. Setup will find the NetBIOS domain name. Once found, click on Next.



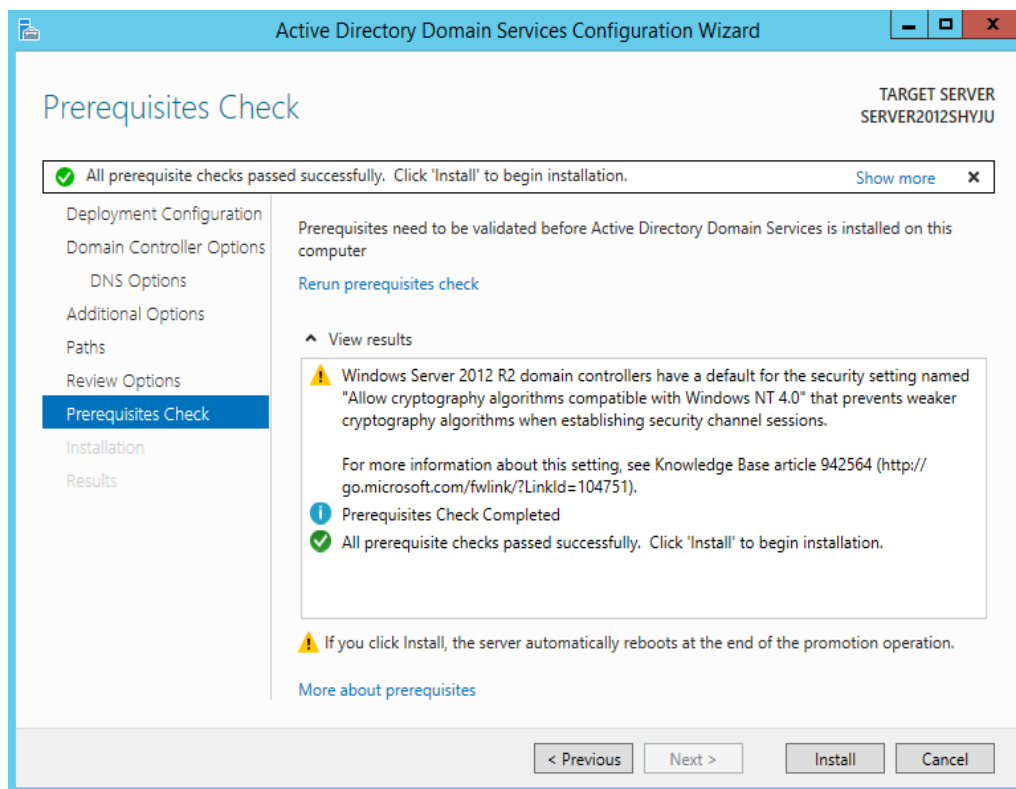
7. Confirm the location of the database, log files and SYSVOL folders.



8. Review the summary and click Next to promote the server to Domain Controller.



9. Once prerequisites have passed successfully, click on Install.



10. The system may restart once installation is completed. Be patient! When the machine restarts and comes back up, you will have an Active Directory Domain controller.

To verify if Active Directory tools have been installed, click on start button, and the Administrative Tools tile. Check out your Active Directory tools! The main snap-in for managing users and computers is the Active Directory Users and Computers snap-in.

