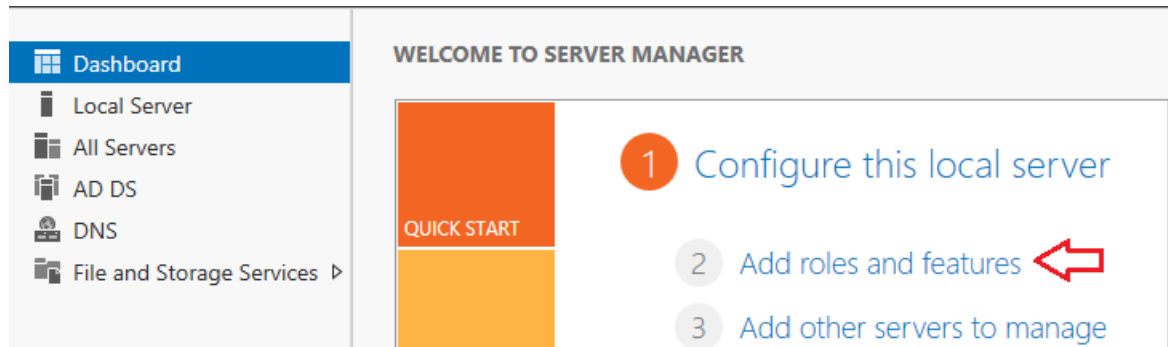


## Active Directory (AD):

Open **Server Manager**, then click on **Add Roles and Features** link.



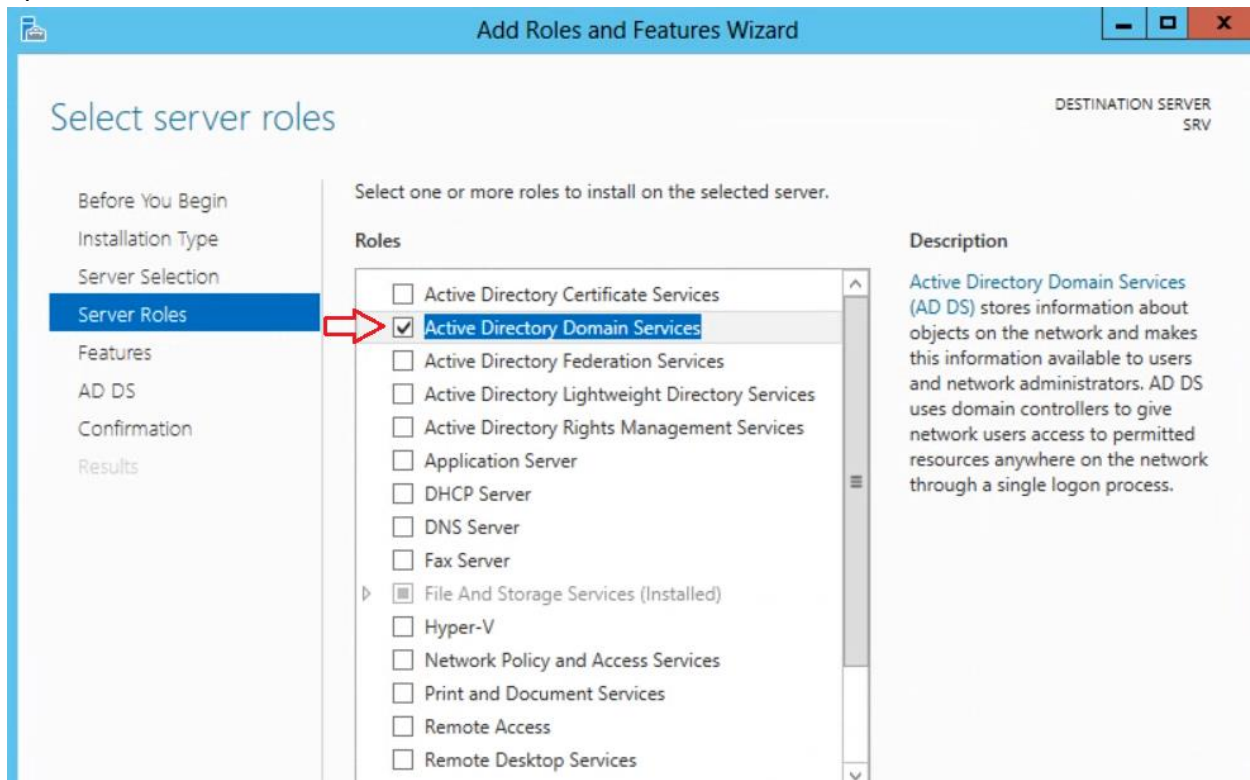
Click Next on the **Before you begin** window. Select **Role-based or feature-based installation** and then click **Next**.



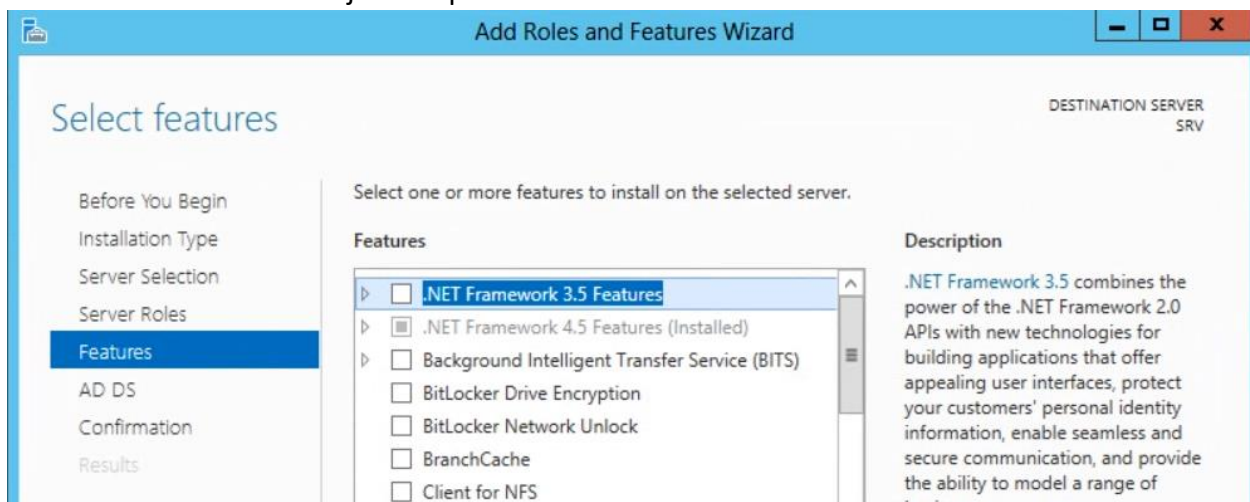
Click **Select a server from the server pool**, click the name of the server to install Active Directory Domain Services to, and then click Next.



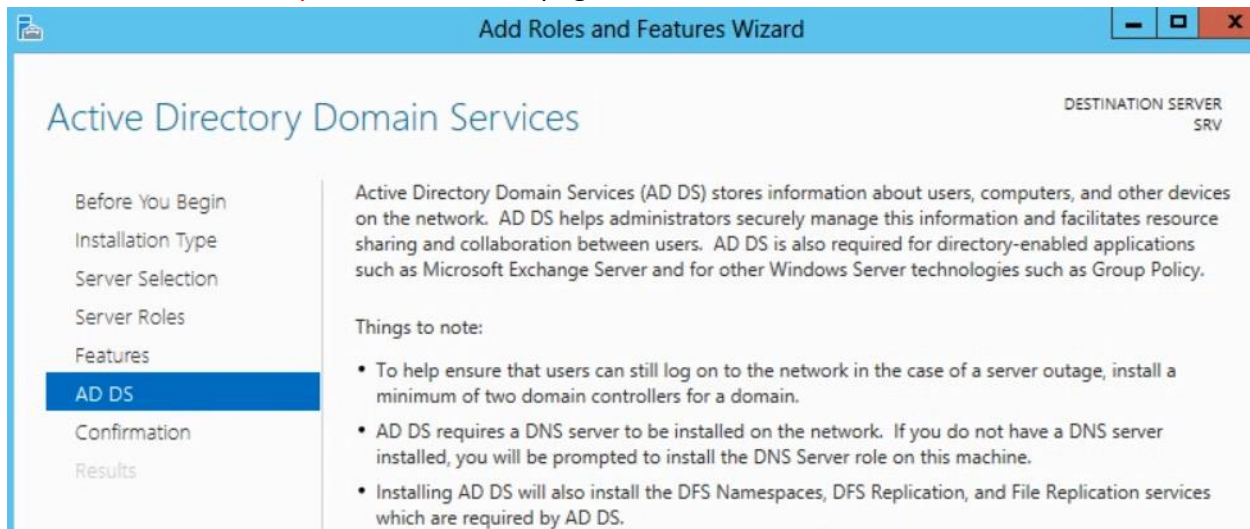
Click **Active Directory Domain Services**. When the **Add Roles and Features Wizard** dialog box opens, select **Add Features**, then **Next**.



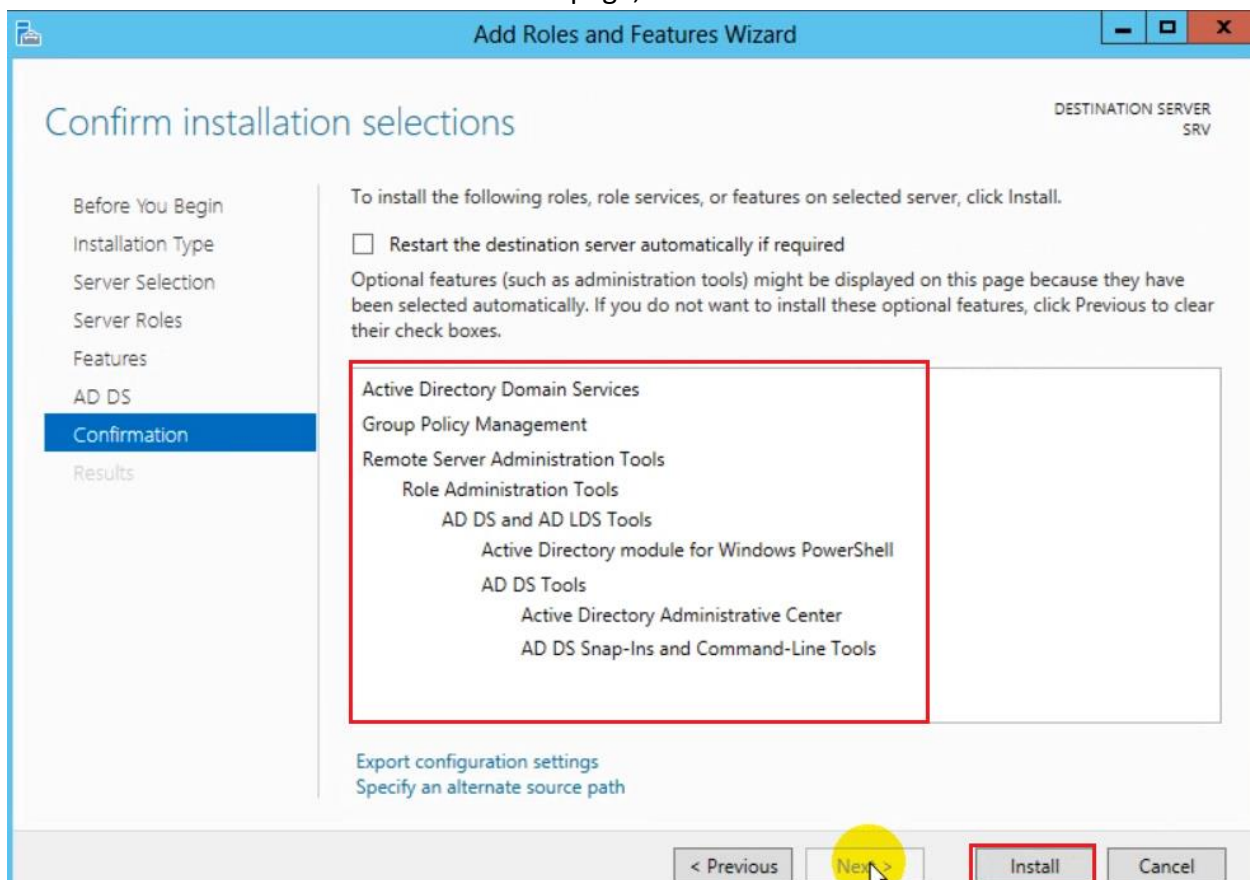
On the **Features** interface just keep the default and click **Next**.



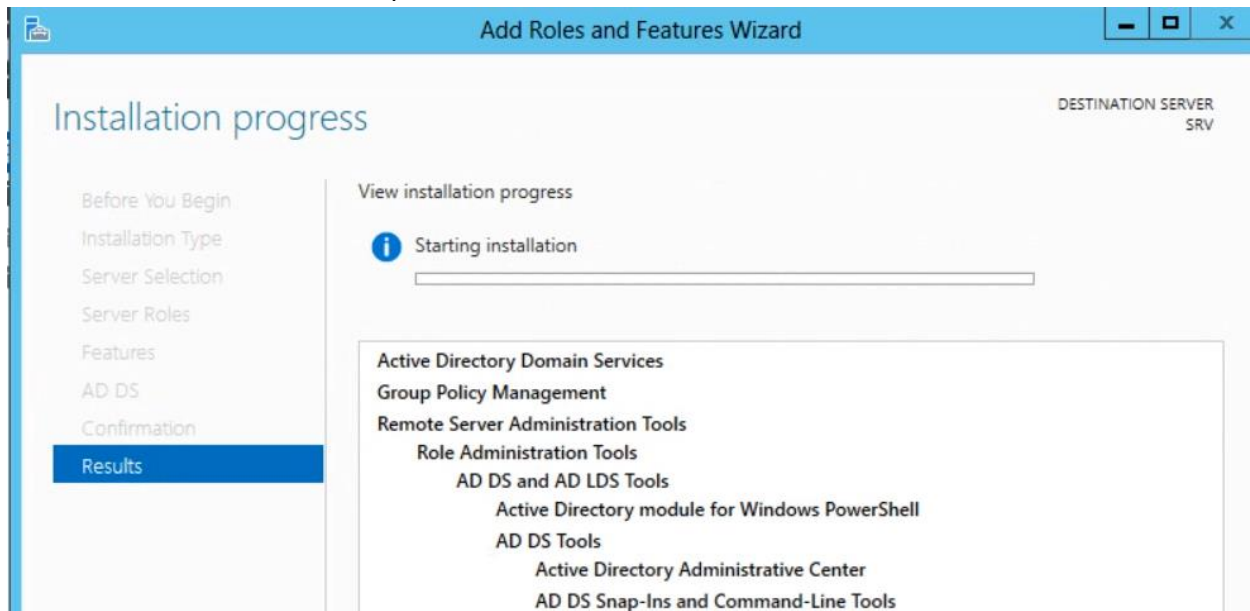
On the **Active Directory Domain Services** page, review the information and then click **Next**.



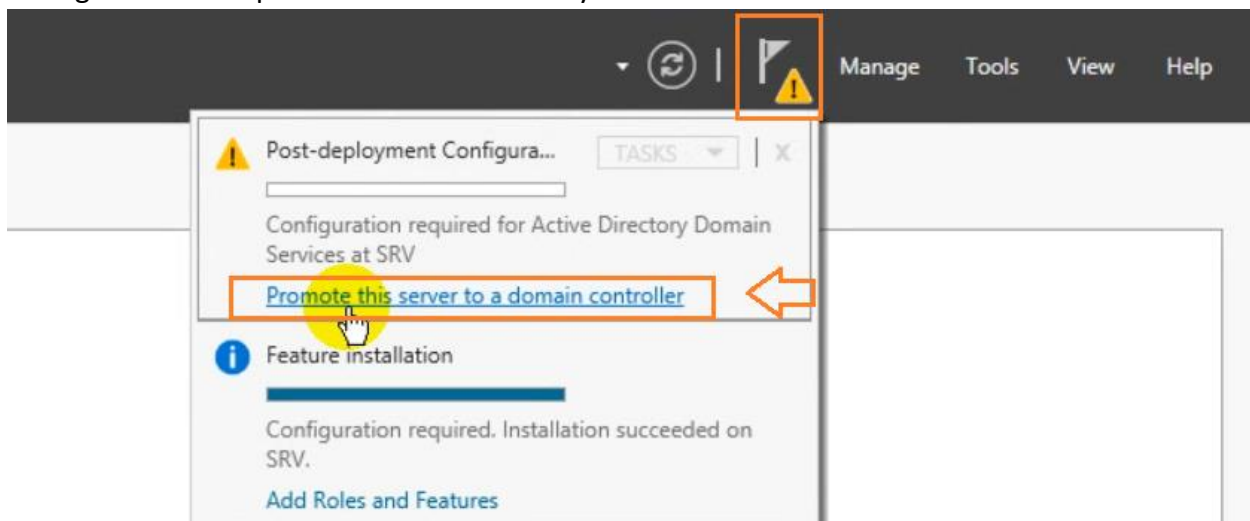
On the **Confirmation** installation selections page, click **Install**.



After the installation has completed, the server will **restart**.



Back in Server Manager, you will notice that **AD DS** has been added to the left navigation tree. Click on it and then click on More on the right navigation pane where it states that Configuration is required for Active Directory Domain Services.



The **Deployment Configuration** screen appears and we will select **Add a new forest** as this is the first domain controller. Enter your Root domain name and then click **Next**.

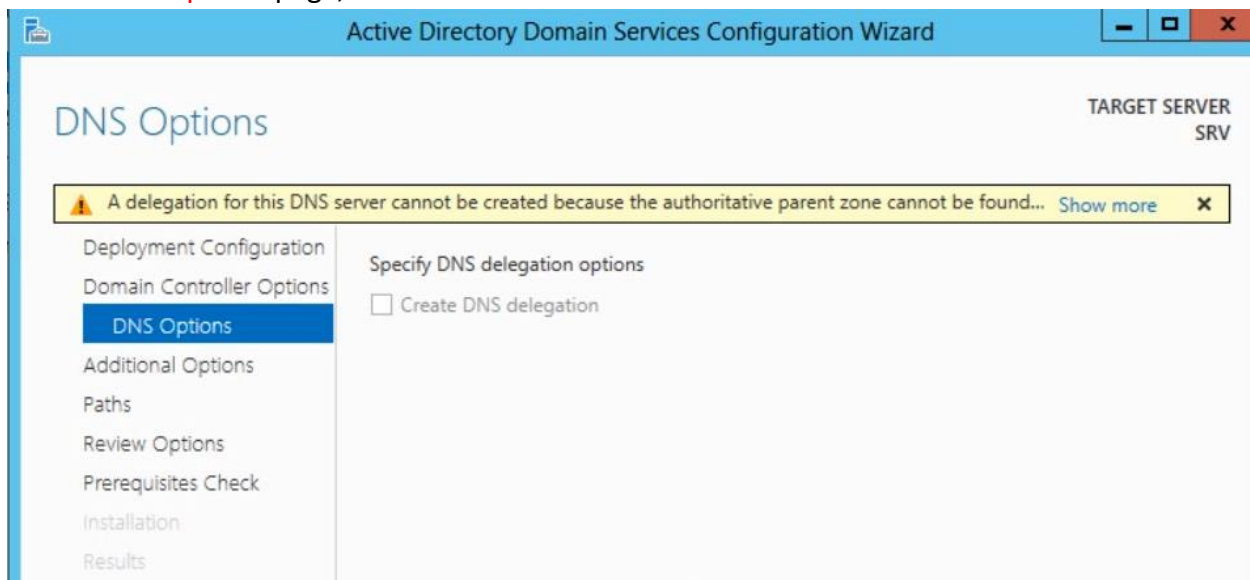
The screenshot shows the 'Active Directory Domain Services Configuration Wizard' window. The title bar is blue with a folder icon on the left and window controls on the right. The main title 'Deployment Configuration' is in a large blue font. On the right, it says 'TARGET SERVER SRV'. A left-hand navigation pane lists steps: 'Deployment Configuration' (highlighted in blue), 'Domain Controller Options', 'Additional Options', 'Paths', 'Review Options', 'Prerequisites Check', 'Installation', and 'Results'. The main area is titled 'Select the deployment operation' and contains three radio buttons: 'Add a domain controller to an existing domain', 'Add a new domain to an existing forest', and 'Add a new forest' (which is selected and highlighted with a red rectangle). Below this, under 'Specify the domain information for this operation', the 'Root domain name:' is followed by a text box containing 'test.local', also highlighted with a red rectangle.

On the **Domain Controller Options** page select your Forest and Domain functional levels, for this demo will leave the defaults of Windows Server 2012 for both, enter a desired DSRM Password, click **Next**.

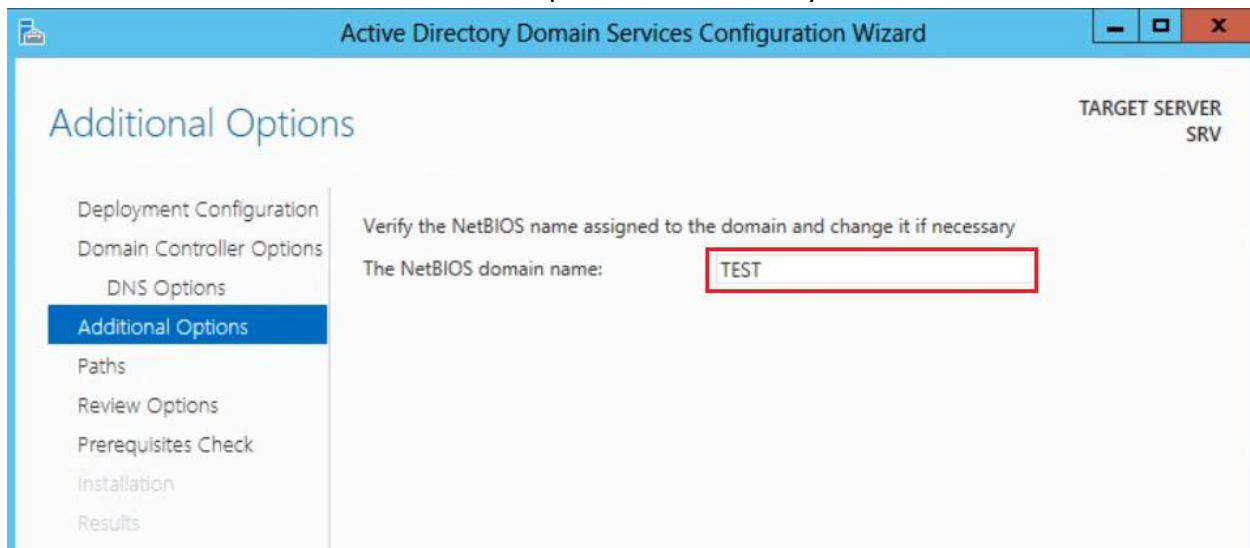
The screenshot shows the 'Active Directory Domain Services Configuration Wizard' window at the 'Domain Controller Options' step. The title bar is blue. The main title 'Domain Controller Options' is in a large blue font. On the right, it says 'TARGET SERVER SRV'. The left-hand navigation pane lists steps: 'Deployment Configuration', 'Domain Controller Options' (highlighted in blue), 'DNS Options', 'Additional Options', 'Paths', 'Review Options', 'Prerequisites Check', 'Installation', and 'Results'. The main area is titled 'Select functional level of the new forest and root domain' and contains two dropdown menus: 'Forest functional level:' and 'Domain functional level:', both set to 'Windows Server 2012'. Below this, under 'Specify domain controller capabilities', there are three checkboxes: 'Domain Name System (DNS) server' (checked), 'Global Catalog (GC)' (checked), and 'Read only domain controller (RODC)' (unchecked). At the bottom, under 'Type the Directory Services Restore Mode (DSRM) password', there are two password fields labeled 'Password:' and 'Confirm password:', both containing masked characters. A red arrow points to the 'Confirm password:' field.



On the **DNS Options** page, click **Next**.



The NetBIOS domain name will then be inputted automatically. Click **Next**.



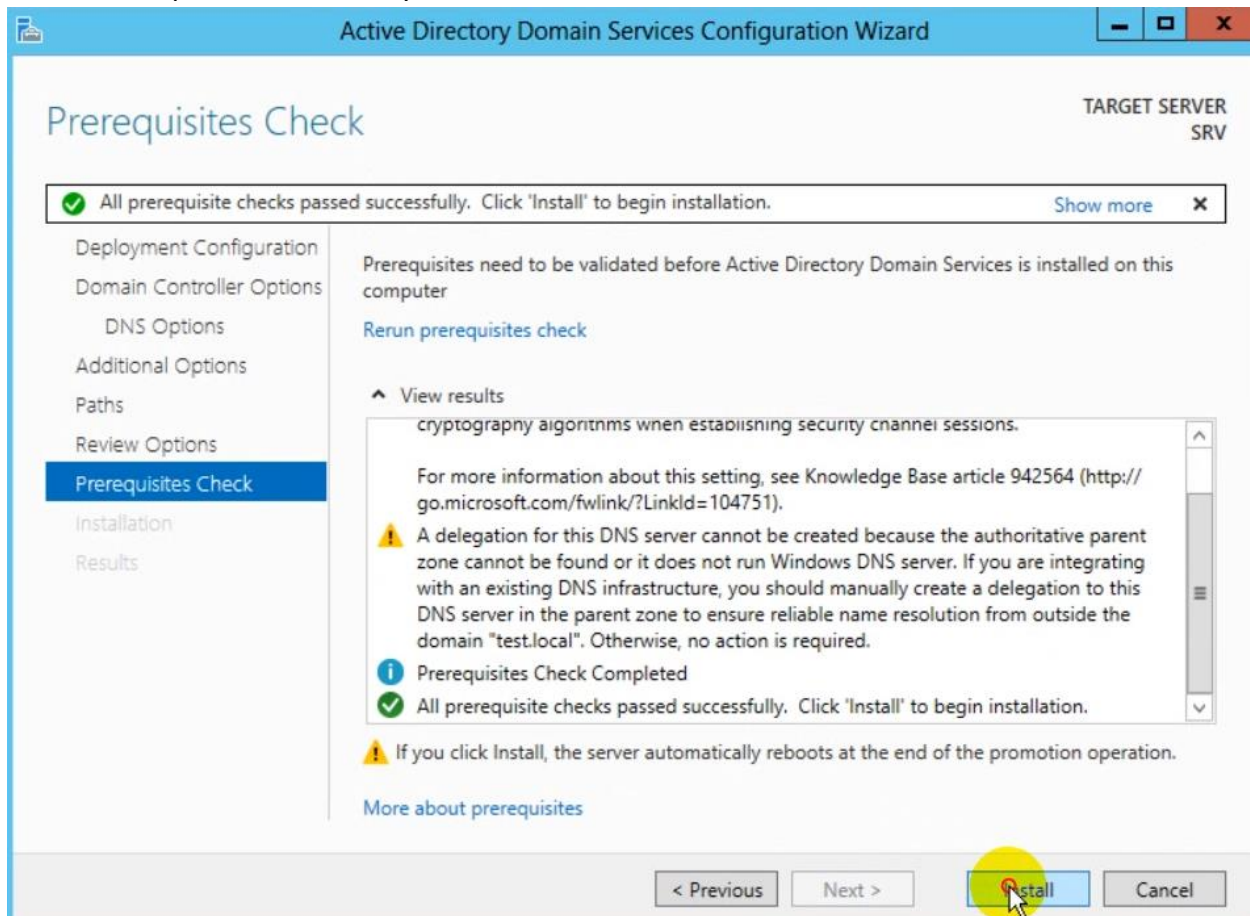
On the **Paths** page verify the desired locations of the Database, Log files and SYSVOL folders, change the locations is required, click **Next**.

The screenshot shows the 'Paths' page of the Active Directory Domain Services Configuration Wizard. The title bar reads 'Active Directory Domain Services Configuration Wizard'. On the left, a navigation pane lists steps: Deployment Configuration, Domain Controller Options, DNS Options, Additional Options, **Paths** (highlighted), Review Options, Prerequisites Check, Installation, and Results. The main area is titled 'Paths' and 'Specify the location of the AD DS database, log files, and SYSVOL'. It contains three input fields with browse buttons (three dots): 'Database folder:' set to 'C:\Windows\NTDS', 'Log files folder:' set to 'C:\Windows\NTDS', and 'SYSVOL folder:' set to 'C:\Windows\SYSVOL'. The top right corner shows 'TARGET SERVER SRV'.

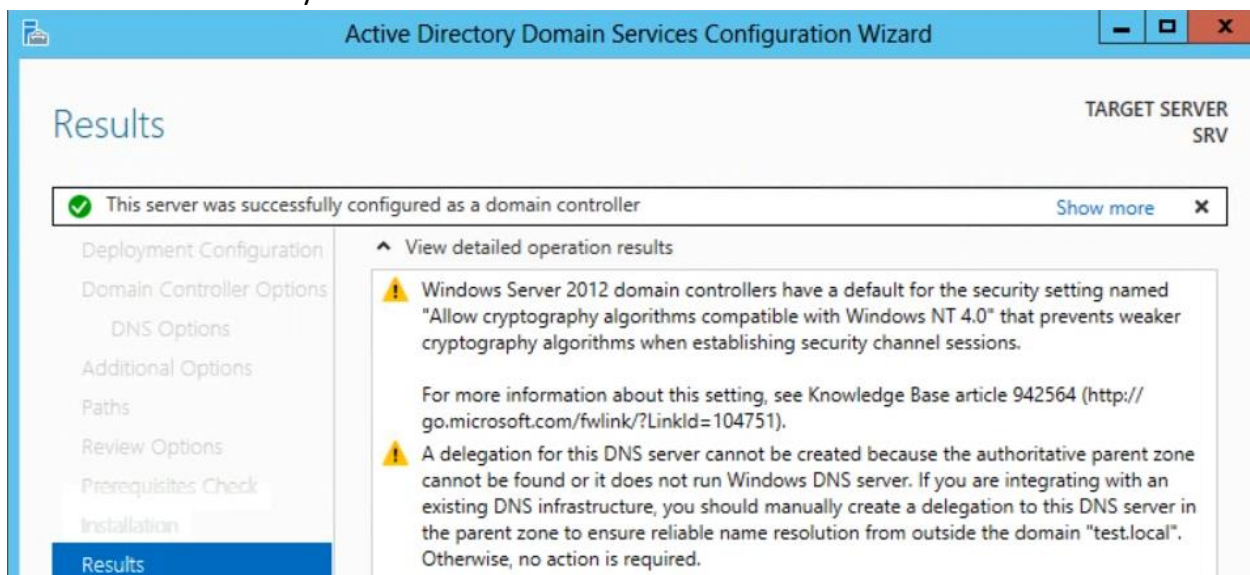
On the **Review Options** page, click **Next**.

The screenshot shows the 'Review Options' page of the Active Directory Domain Services Configuration Wizard. The title bar reads 'Active Directory Domain Services Configuration Wizard'. On the left, a navigation pane lists steps: Deployment Configuration, Domain Controller Options, DNS Options, Additional Options, Paths, **Review Options** (highlighted), Prerequisites Check, Installation, and Results. The main area is titled 'Review Options' and 'Review your selections:'. It contains a scrollable list of configuration details: 'Configure this server as the first Active Directory domain controller in a new forest.', 'The new domain name is "test.local". This is also the name of the new forest.', 'The NetBIOS name of the domain: TEST', 'Forest Functional Level: Windows Server 2012', 'Domain Functional Level: Windows Server 2012', 'Additional Options:', 'Global catalog: Yes', 'DNS Server: Yes', and 'Create DNS Delegation: No'. At the bottom, it states 'These settings can be exported to a Windows PowerShell script to automate additional installations' with a 'View script' button. The top right corner shows 'TARGET SERVER SRV'.

The wizard will perform a Prerequisite check before the installation can continue. After the check is completed successfully click **Install**.



The server will restart once the configuration has completed, the server is now a domain controller for the newly formed domain.





## Create Groups and Users:

Four groups Employee, Contractor, Limited and Gust. Four Users E1, C1, G1 and L1.

