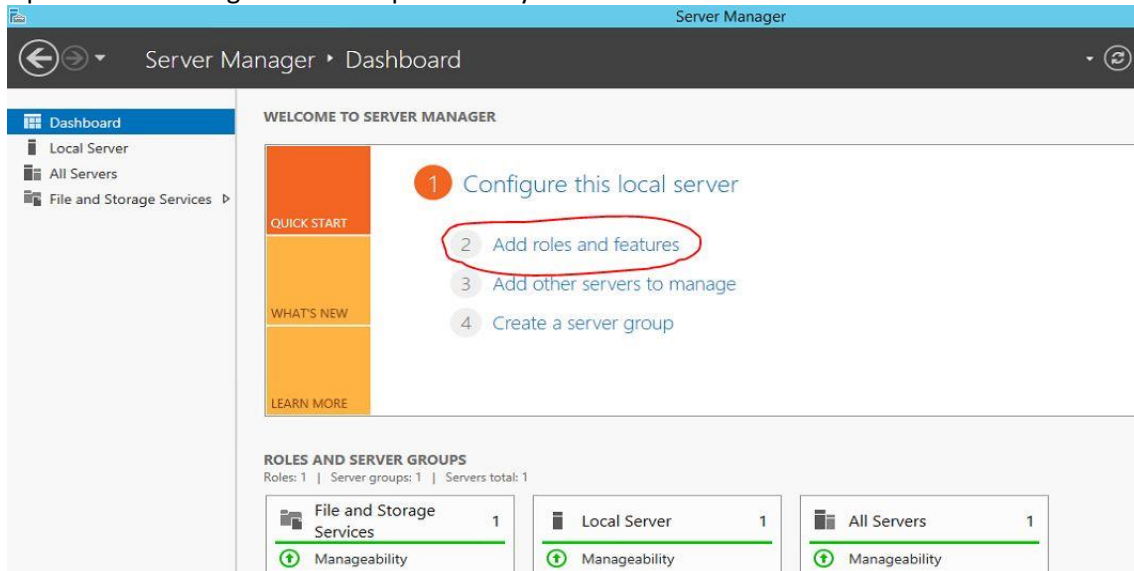


## NUST CYBER SECURITY TEAM 2020

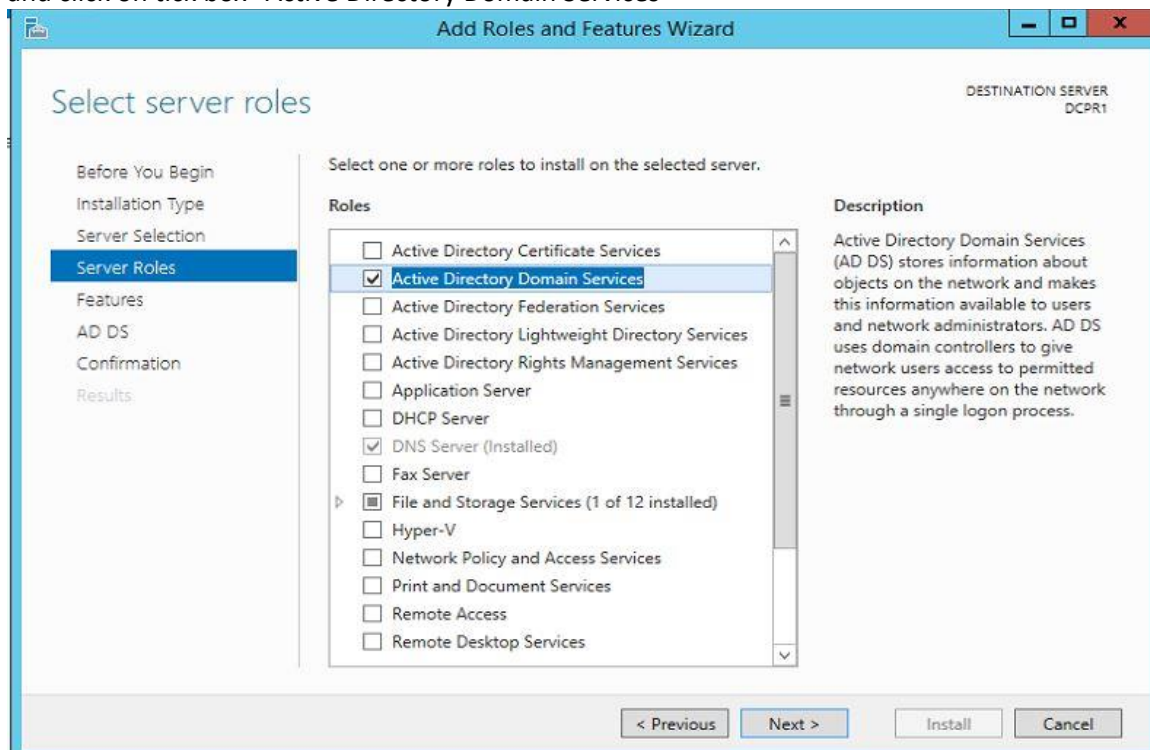
### Configuring Active Directory:

Note: Google is your Friend!!!!

Open server manager if its not open already and click on "Add roles and features."

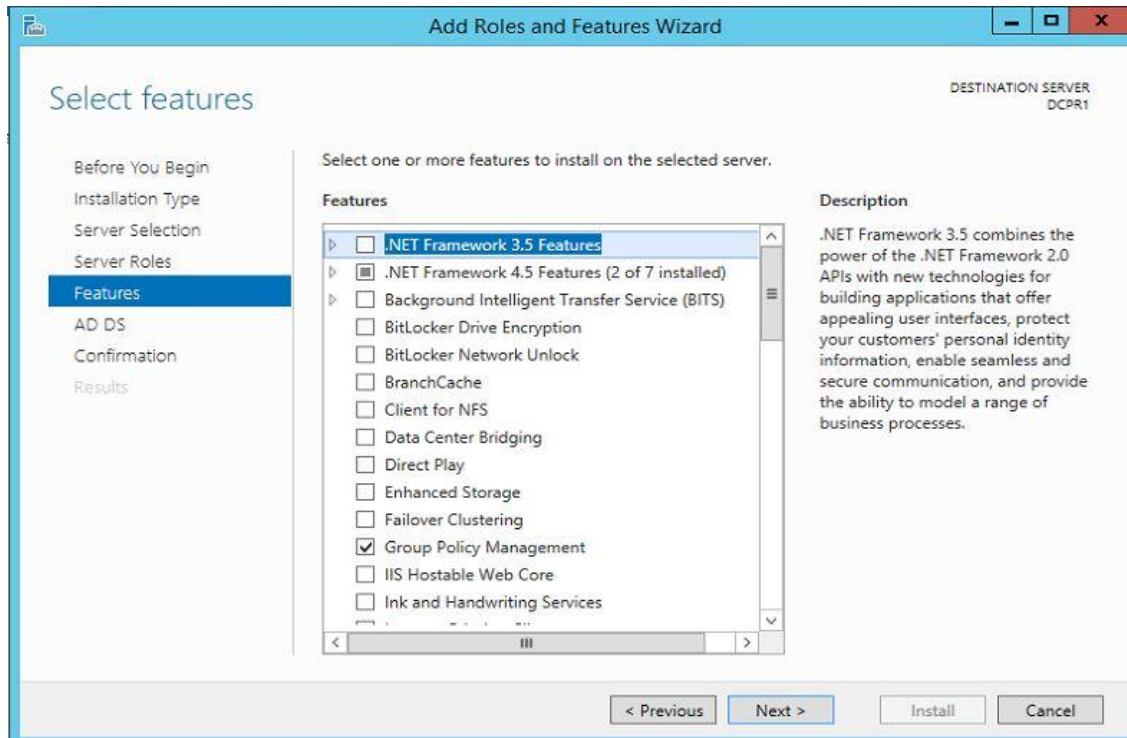


It will load the "Add roles and features" wizard. click next > > > till you get to Select server roles... select and click on tick box "Active Directory Domain Services"



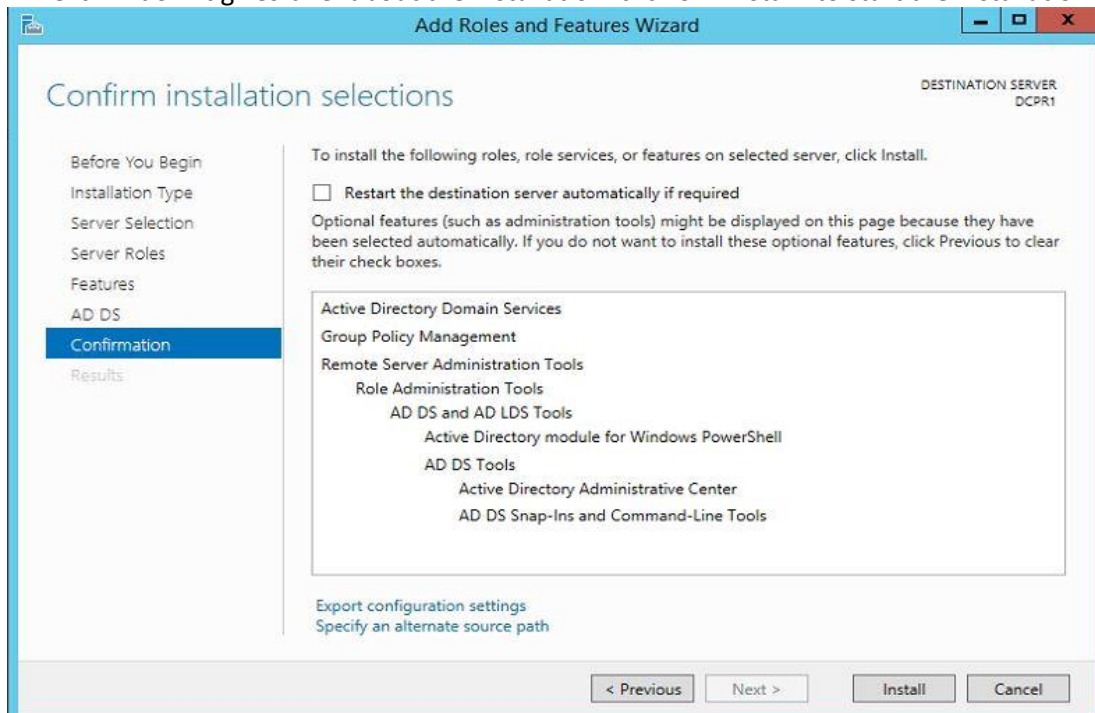
Then it will prompt window to indicate the additional feature installations related to selected role. click on "Add Features" to continue.

Next, it will give option to select additional feature to install but we will keep the default selection. click next to install.....

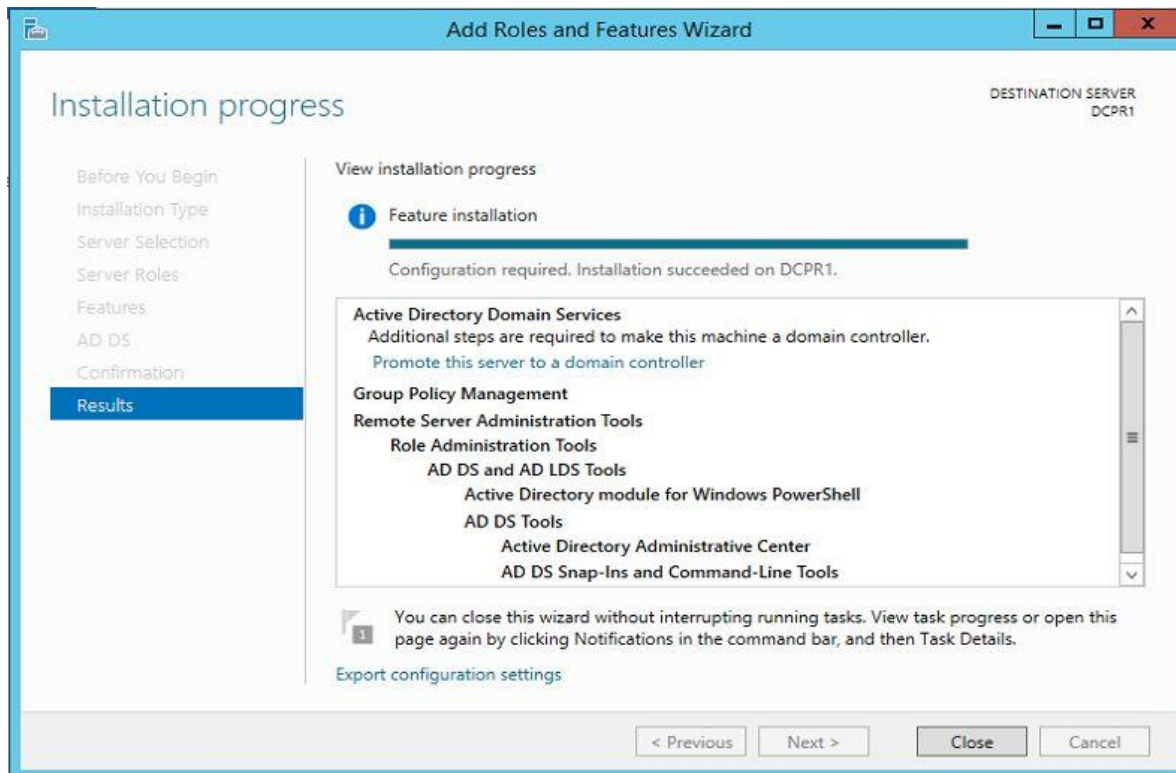


And Next again....

In next window it gives brief about the installation. click on "install" to start the installation.

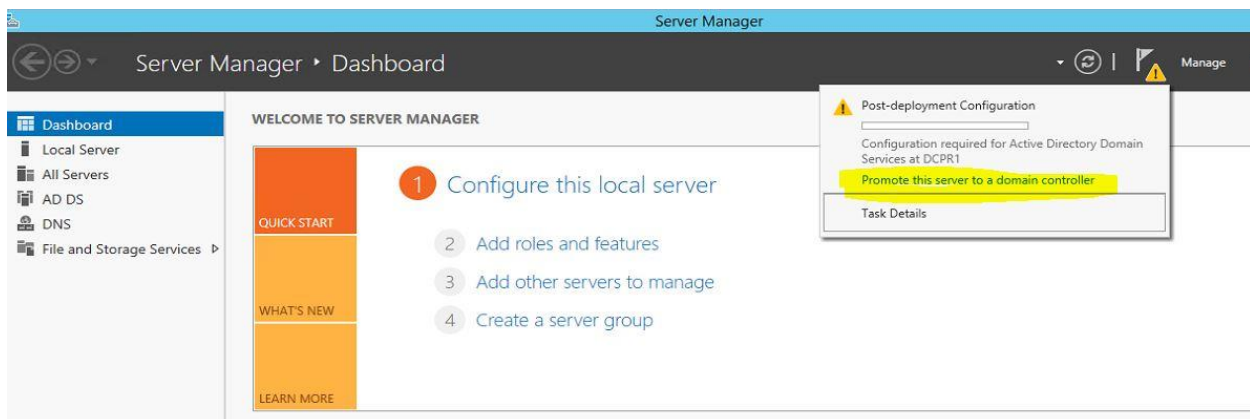


When finishes click on "close" to exit from the wizard. then next step is to reboot the server to complete the installation.

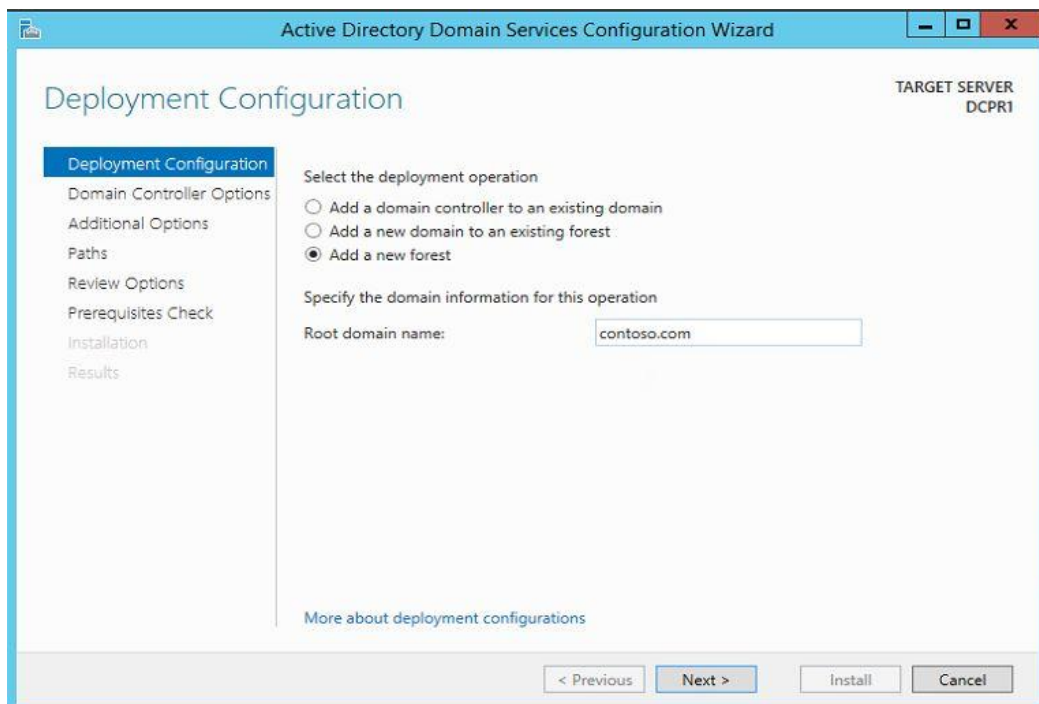


ON TO THE NEXT!!!!!!!!!!

We now need to setup our AD DC (Active directory domain controller). to start that click Task flag on right hand corner. then it will list option as below picture. click on "promote this server to a domain controller" option (highlighted with yellow in picture)

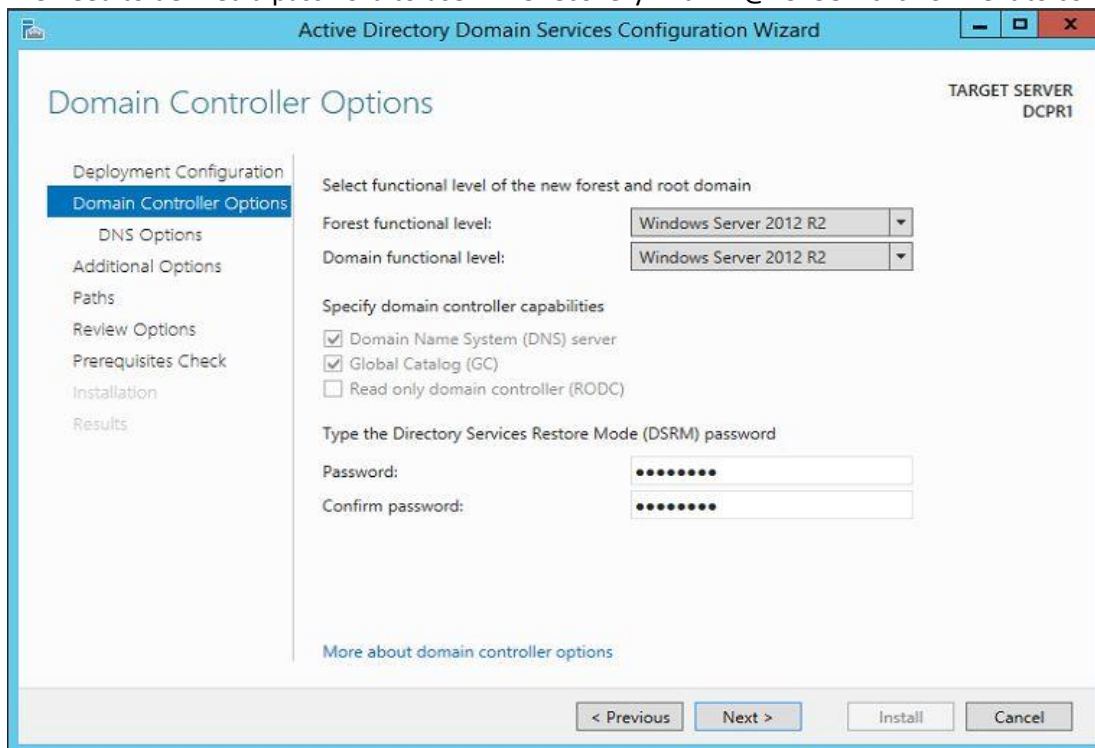


On the first window since it's going to be new forest (**WHAT IS A FOREST?**) we have selected option "Add a new forest" and We type our domain name "cyber.local" which we will be using on the forest. Then click on "next" to continue.



The screenshot shows the 'Active Directory Domain Services Configuration Wizard' window. The title bar includes the Windows logo, the text 'Active Directory Domain Services Configuration Wizard', and standard window controls. The main window has a blue header with the title 'Deployment Configuration' and 'TARGET SERVER DCPRI' on the right. A left-hand navigation pane lists steps: 'Deployment Configuration' (selected), 'Domain Controller Options', 'Additional Options', 'Paths', 'Review Options', 'Prerequisites Check', 'Installation', and 'Results'. The main content 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). Below this, under 'Specify the domain information for this operation', there is a text box for 'Root domain name:' containing 'contoso.com'. At the bottom, there are four buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

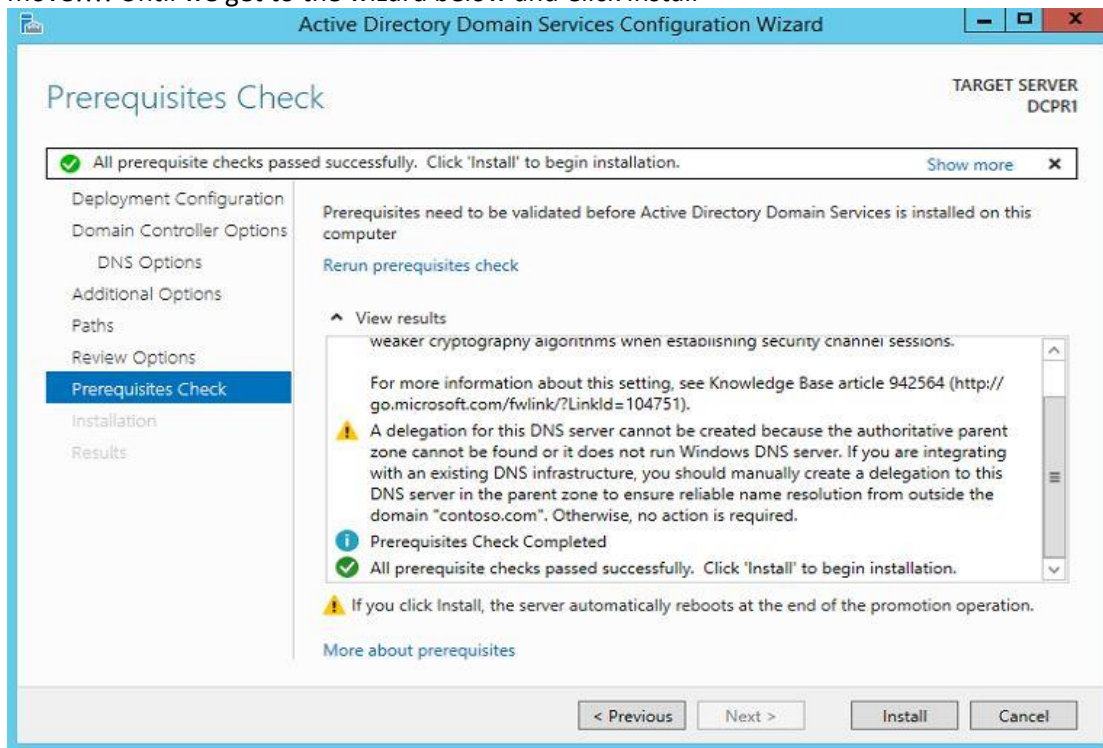
We need to defined a password to use in DC recovery "Admin@43298". click on next to continue.



The screenshot shows the 'Active Directory Domain Services Configuration Wizard' window at the 'Domain Controller Options' step. The title bar is the same as the previous window. The main window has a blue header with the title 'Domain Controller Options' and 'TARGET SERVER DCPRI' on the right. The left-hand navigation pane lists steps: 'Deployment Configuration', 'Domain Controller Options' (selected), 'Additional Options', 'Paths', 'Review Options', 'Prerequisites Check', 'Installation', and 'Results'. The main content 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 R2'. 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). Further down, under 'Type the Directory Services Restore Mode (DSRM) password', there are two text boxes labeled 'Password:' and 'Confirm password:', both filled with dots. At the bottom, there are four buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

Next window it will give following error but it can be ignored. click on next to continue.

Next window it asks for the NetBIOS name (**What is NetBios name?**). we can keep it default and we move!!!! Until we get to the wizard below and Click install



Once its complete the install it will automatically reboot the server.

Now you have successfully completed with the DC setup on the server !!!

Challenge: Join our first computer to the domain cyber.local

Learning resources:

- [https://www.youtube.com/watch?v=GfqSFtmJQg0&ab\\_channel=ServerAcademy](https://www.youtube.com/watch?v=GfqSFtmJQg0&ab_channel=ServerAcademy)
- [https://www.youtube.com/watch?v=6Lsv4N1hGnM&feature=youtu.be&ab\\_channel=RobertMcMillen](https://www.youtube.com/watch?v=6Lsv4N1hGnM&feature=youtu.be&ab_channel=RobertMcMillen)
- <https://www.server-world.info/en/>
- [https://youtu.be/IFwek\\_OuYZ8](https://youtu.be/IFwek_OuYZ8)