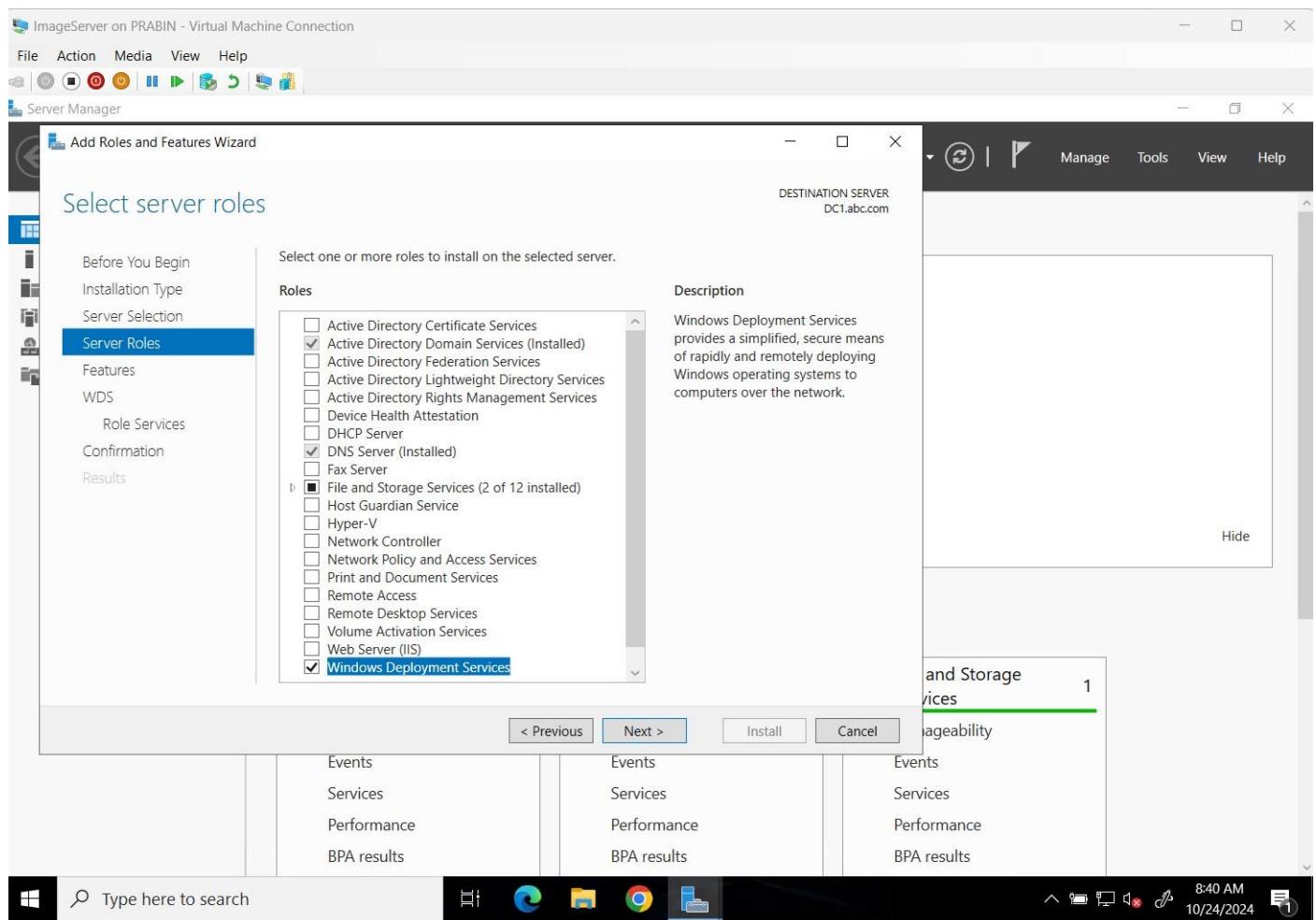


Imaging is the process of creating an exact copy of a computer's operating system, software, and configurations, which can then be deployed to other machines. This method is used to quickly set up multiple computers with identical configurations, saving time and ensuring consistency across devices. Instead of manually installing software and settings on each computer, the image is applied to replicate the original system setup. Imaging is commonly used in enterprise environments to streamline deployment and ensure uniformity across all systems.

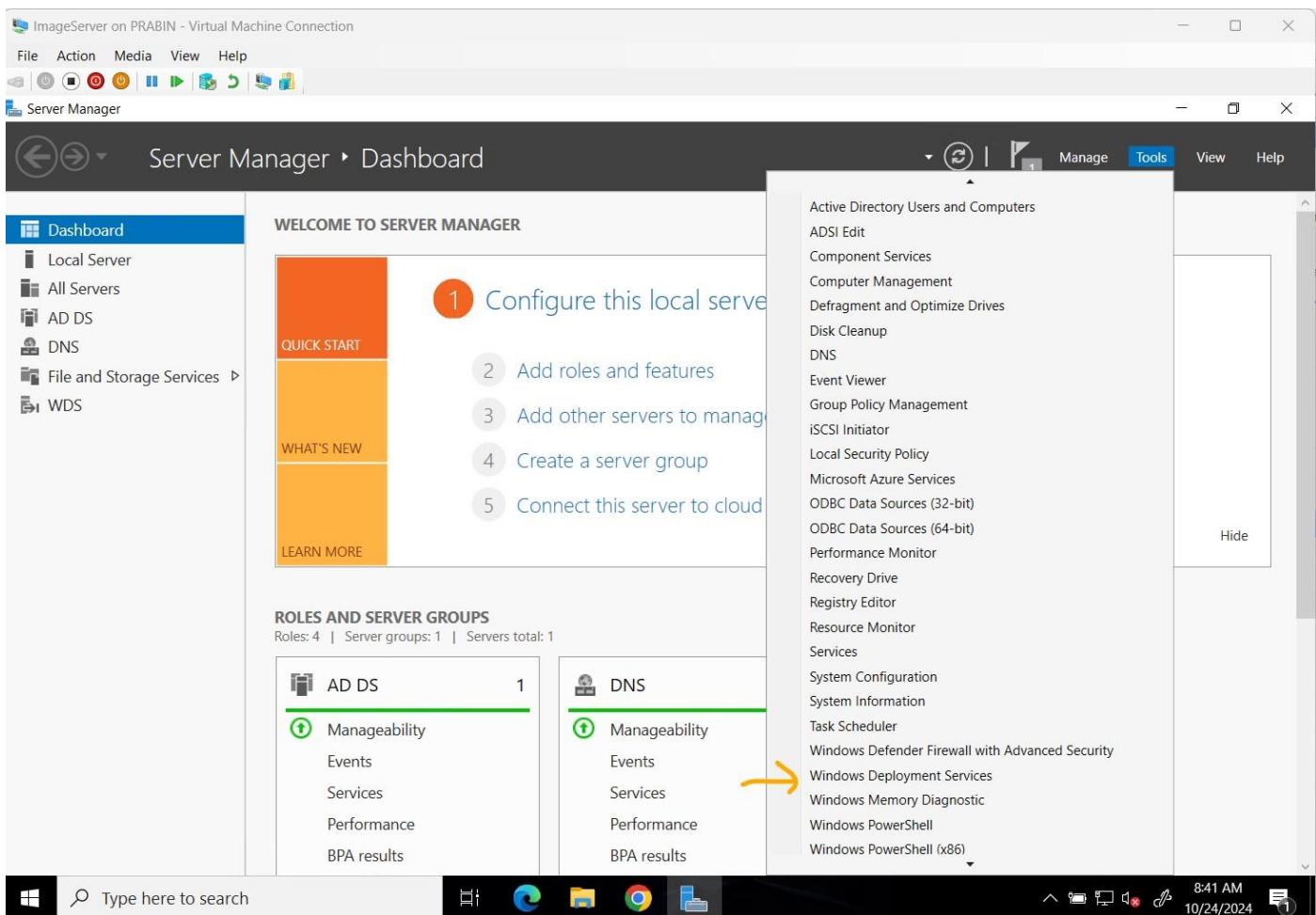
Part-1: Fresh Image Deployment

My AD is abc.com & the domain controller is DC.

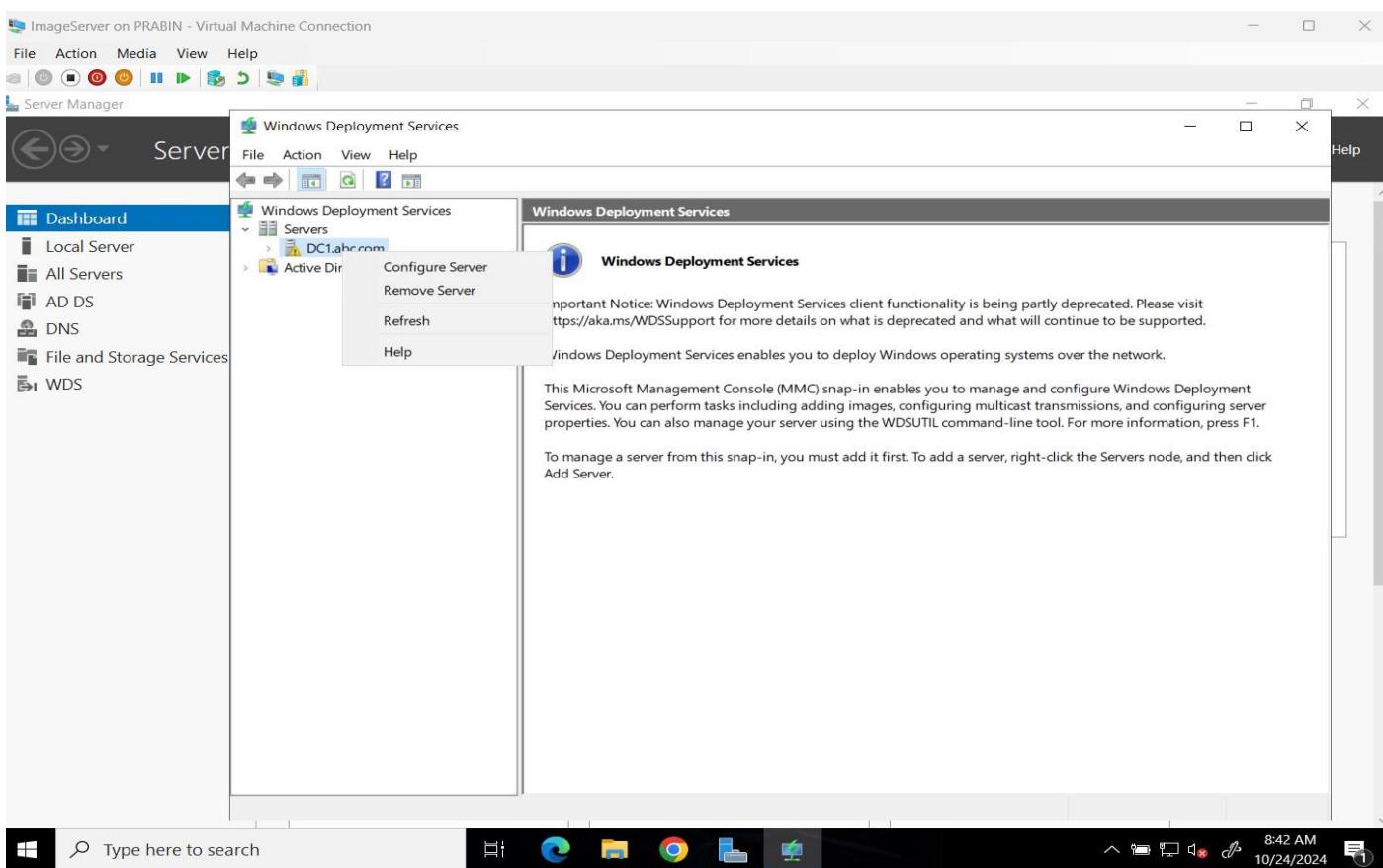
Step1: In DC add Windows Deployment Services



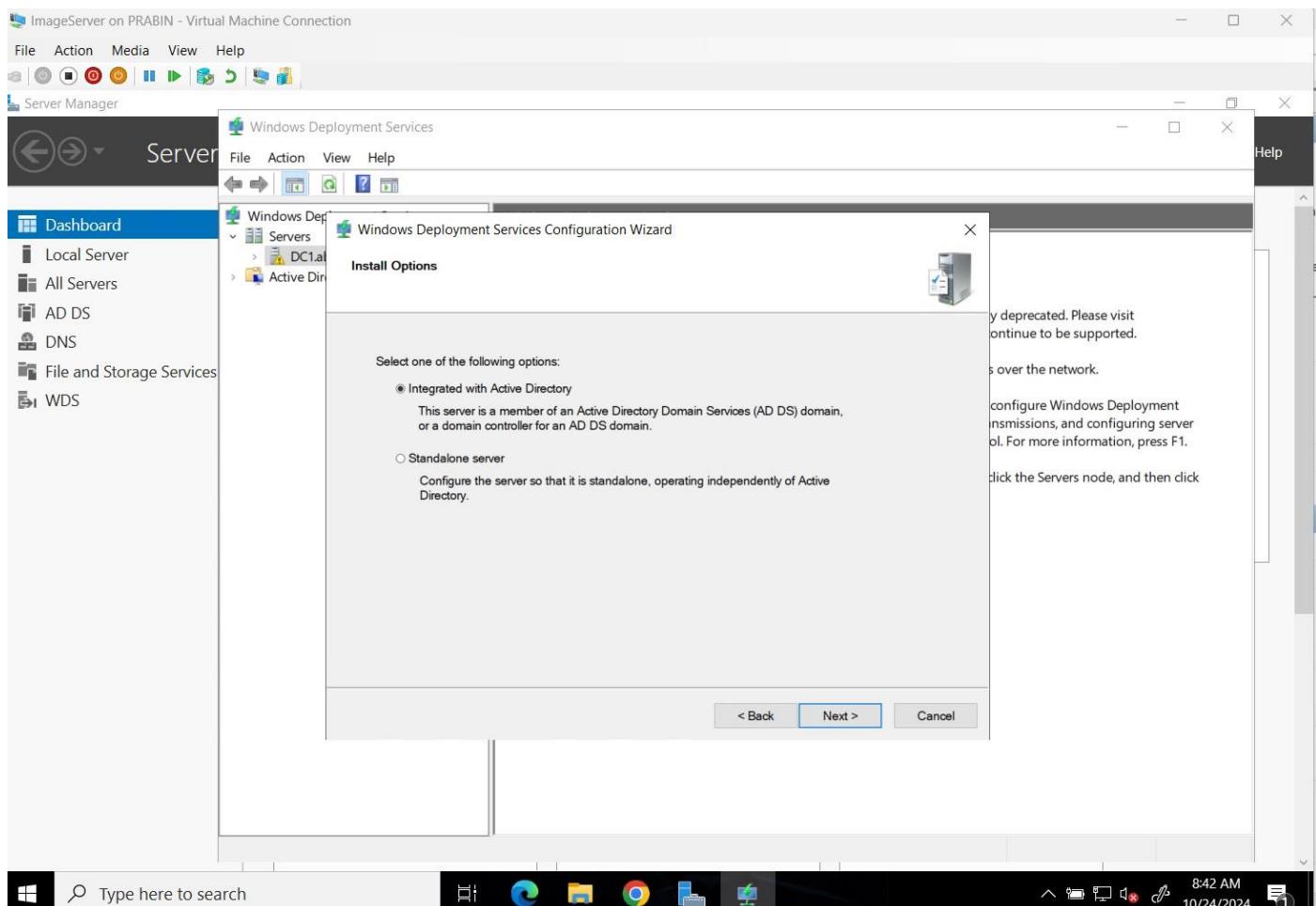
Step 2: Once installed, go to Windows Deployment Services



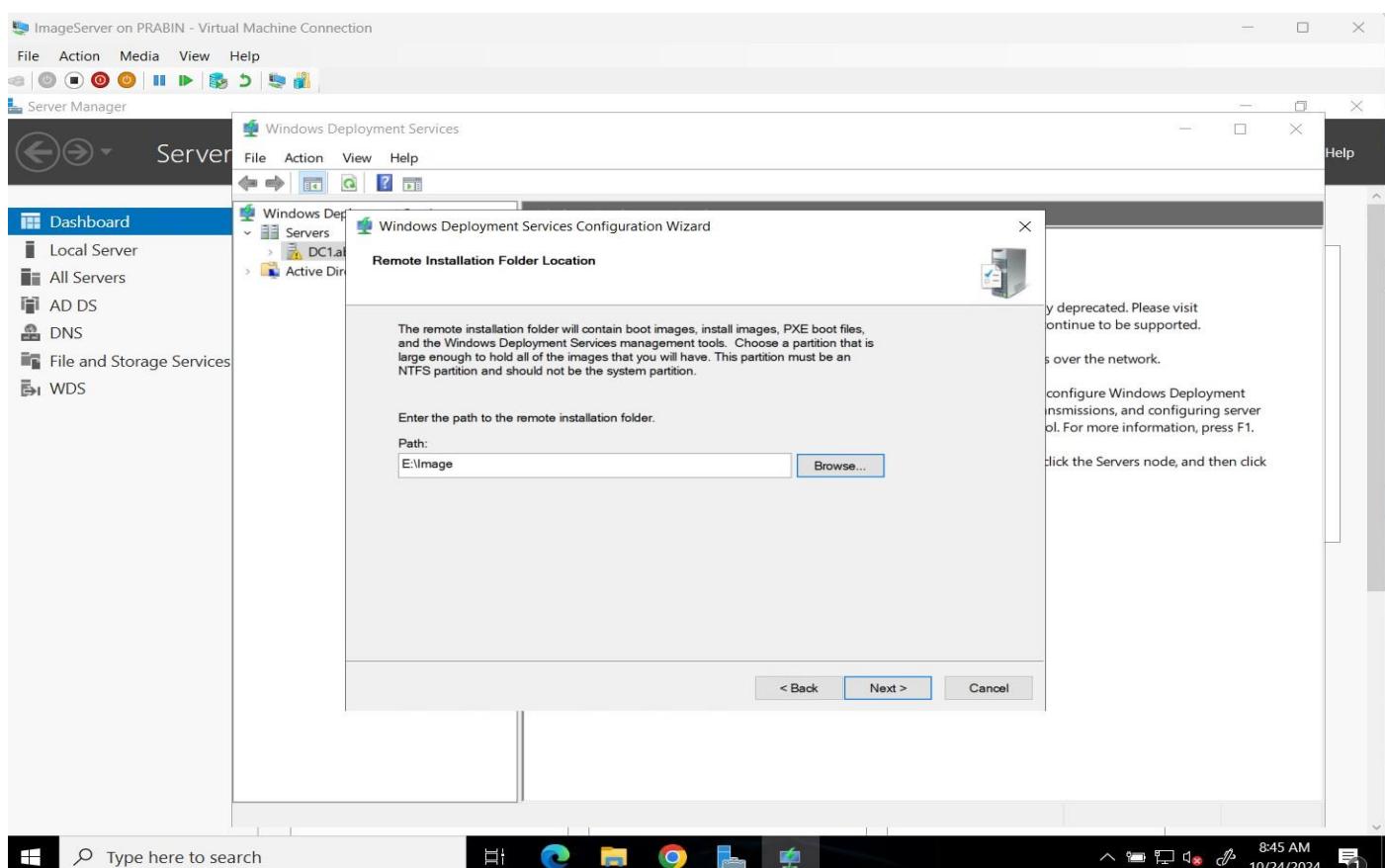
Step 3: Go to Servers > Right click on DC > Configure Server



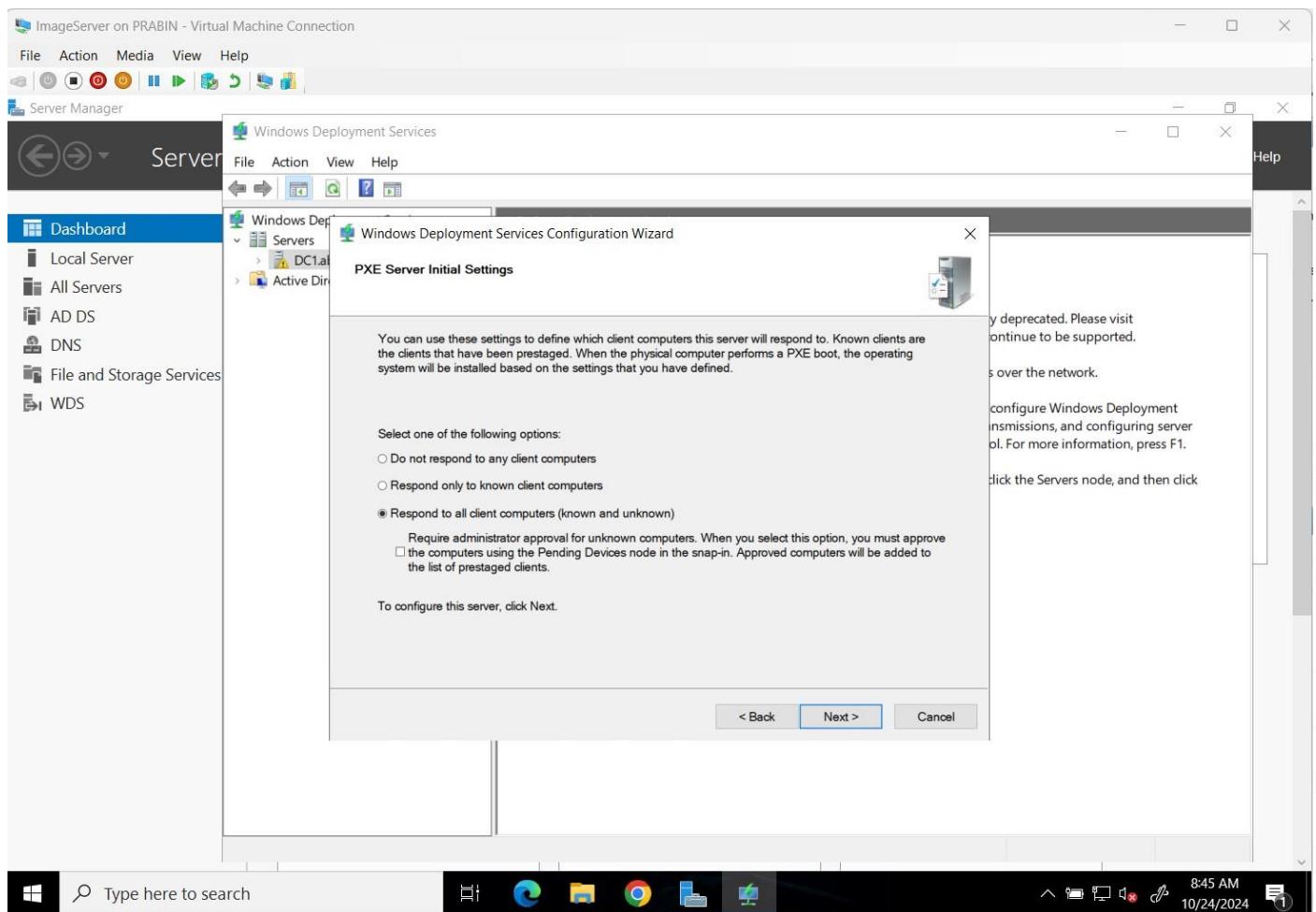
Step 4: This server is AD Domain controller, so choose the option “Integrated with Active Directory” > Next



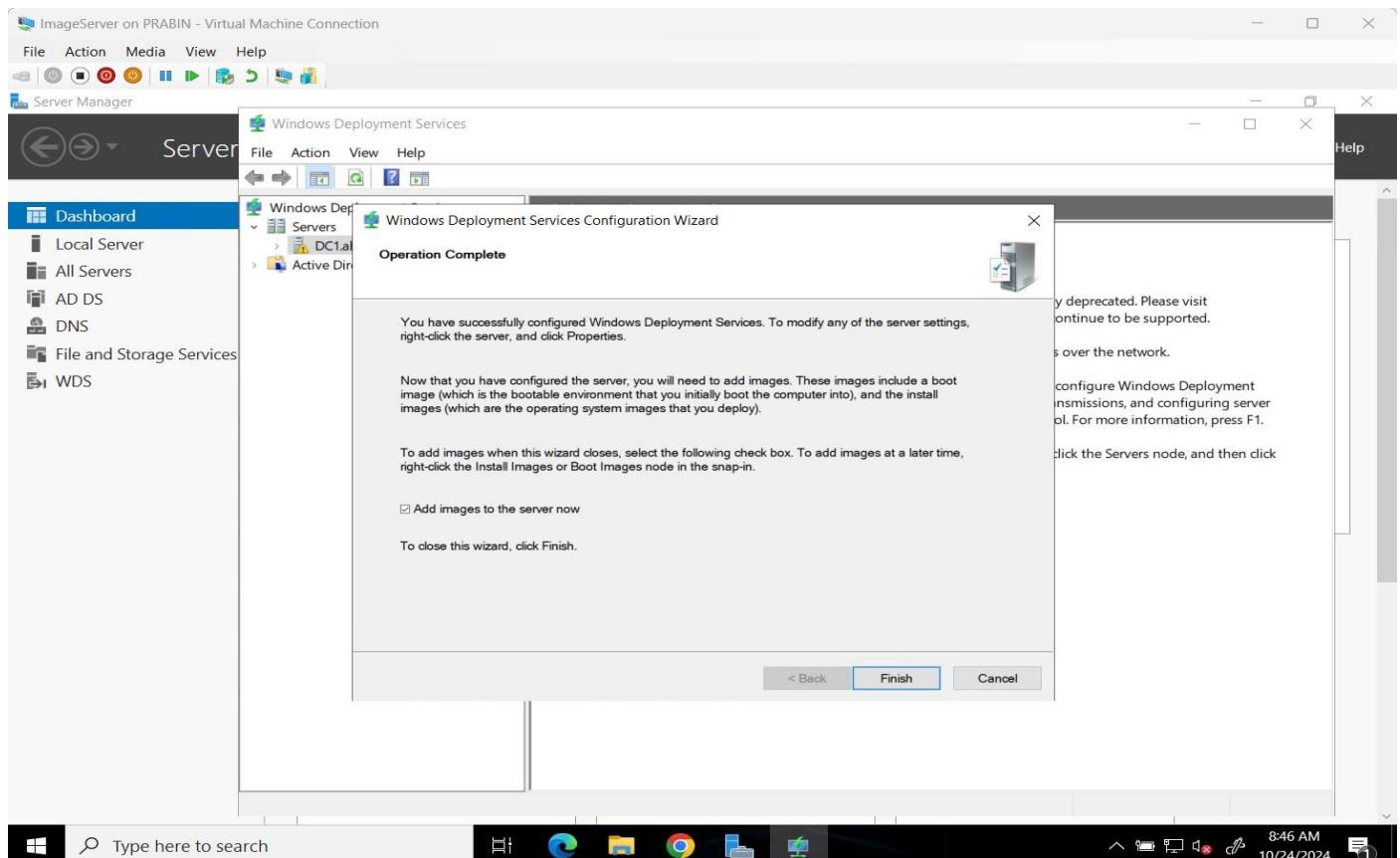
Step 5: Browse the path for remote installation folder. I have created a folder Image in E drive.



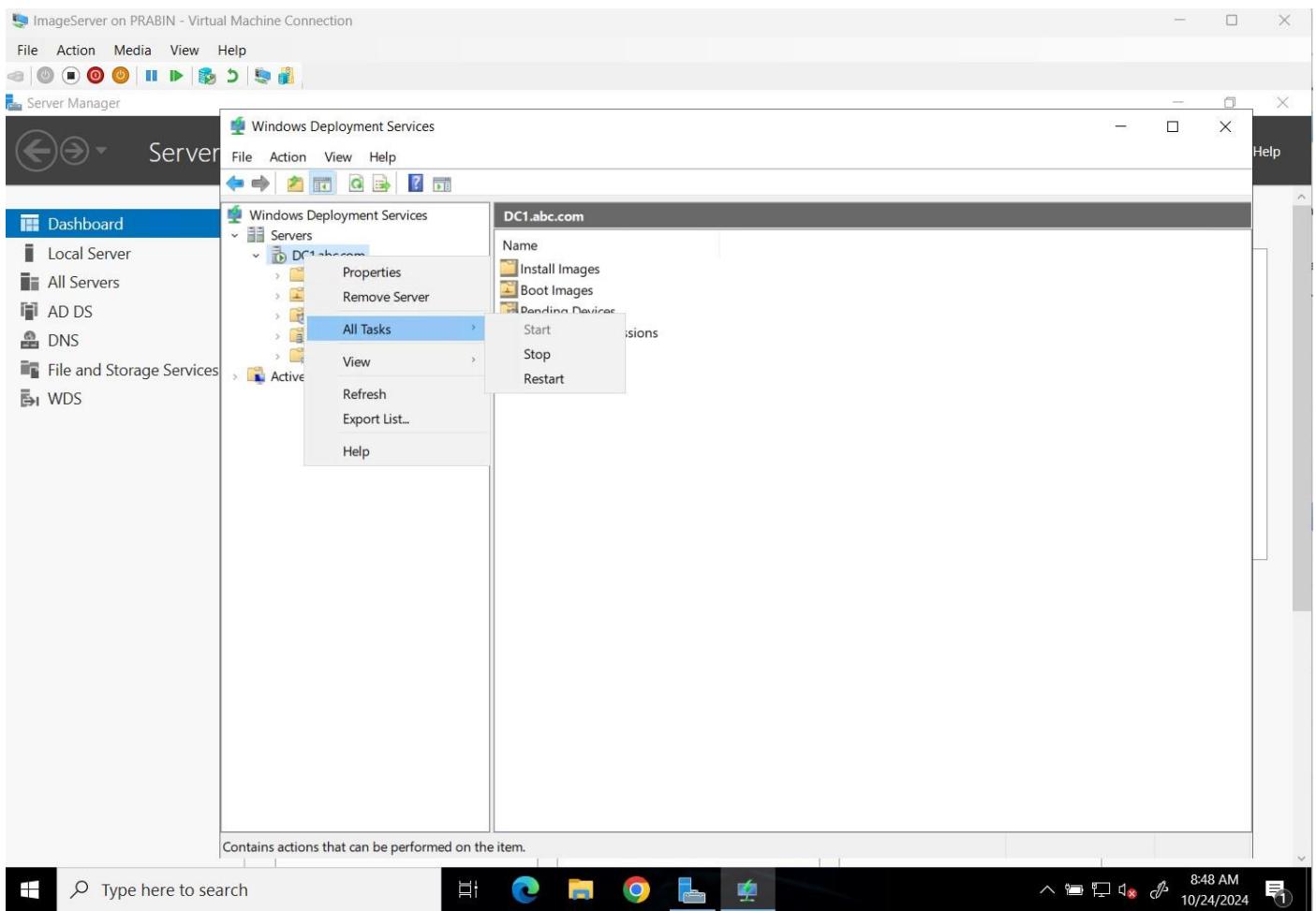
Step 6: Choose the option shown in the picture below. > Next >



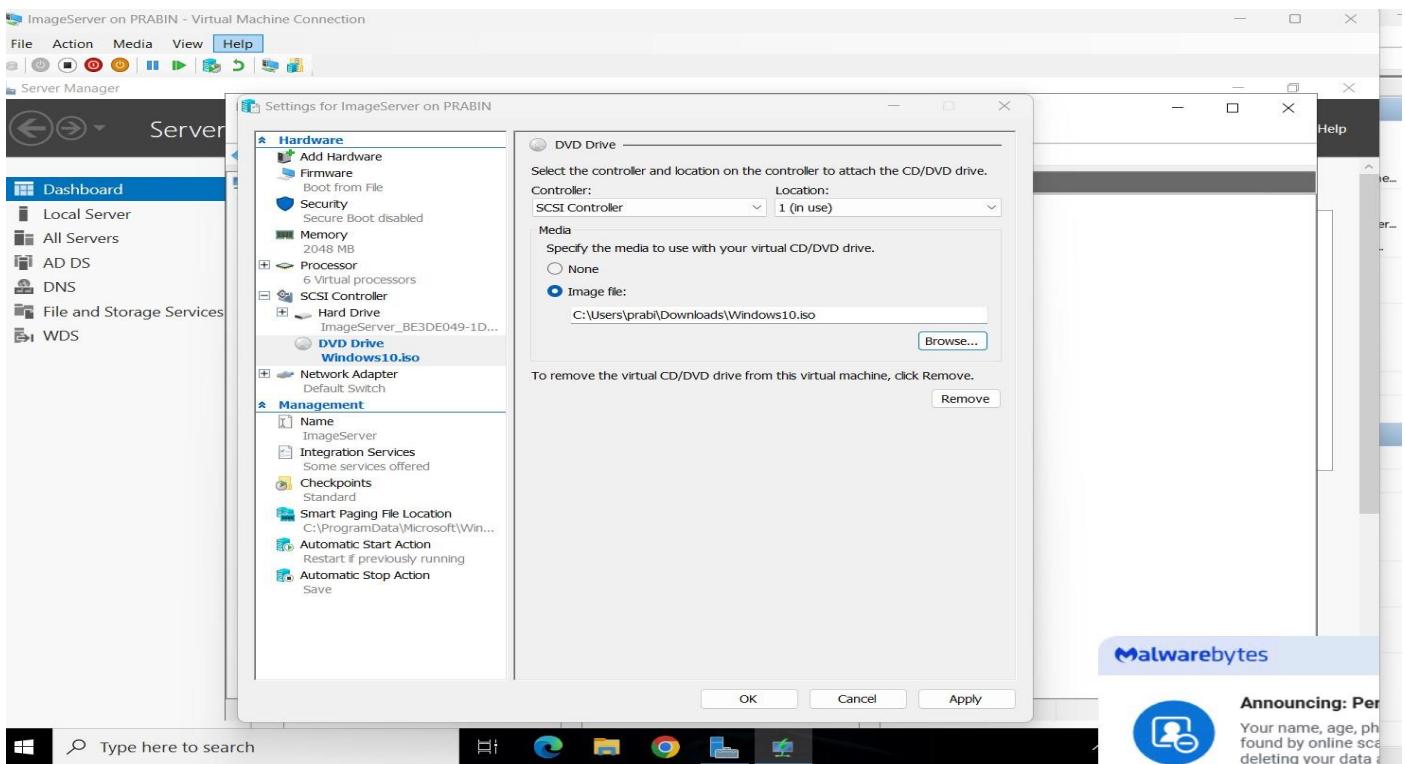
Step 7: Click on Add image to the server. > Finish.



Step 8: After completion, right click the server & restart.

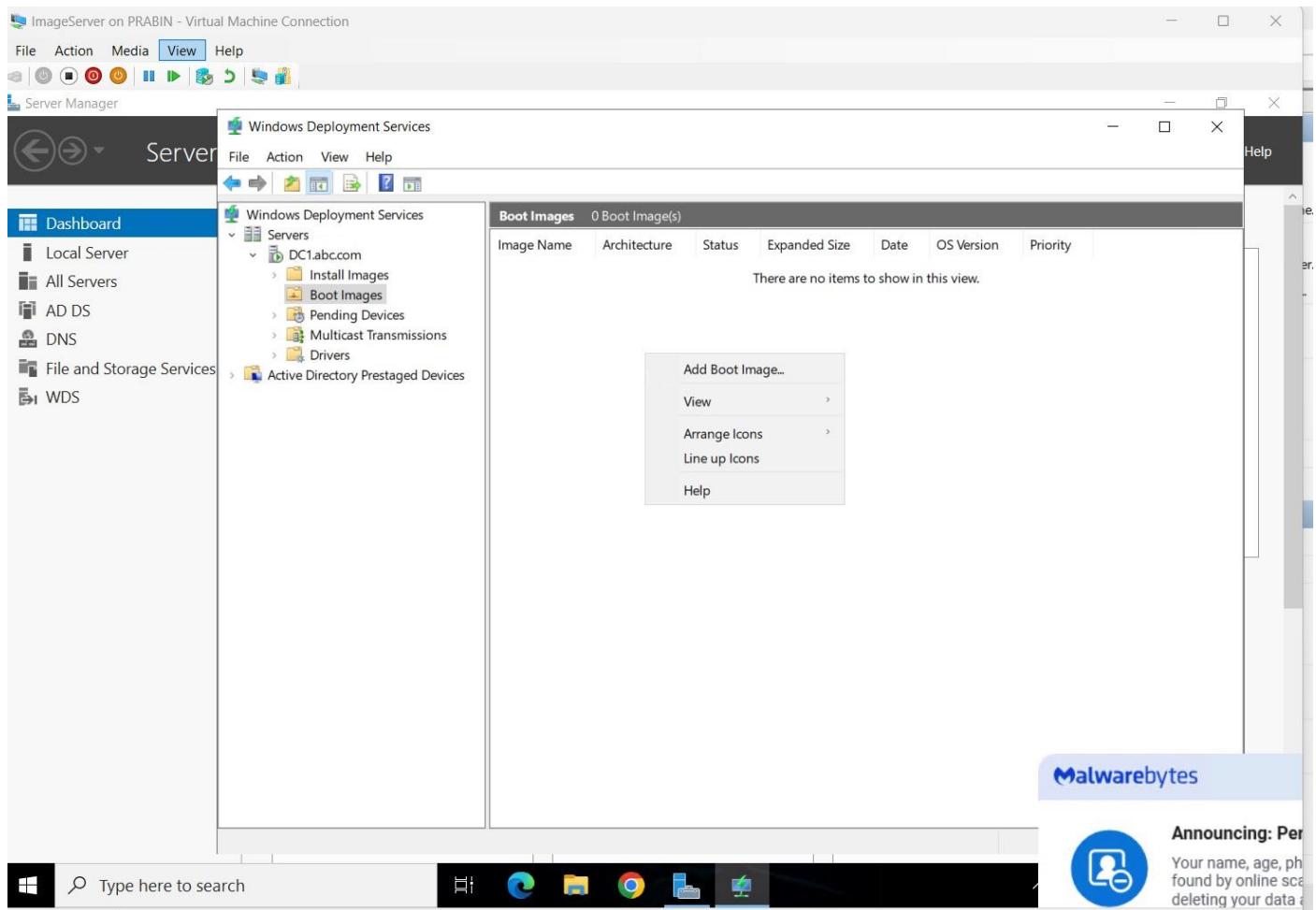


Step 9: Now at the top of the Image server > Go to File > Settings > On DVD Drive attach the operating system (ISO file) to the server that you want to deploy. For this task, I have attached the Windows 10 operating system.

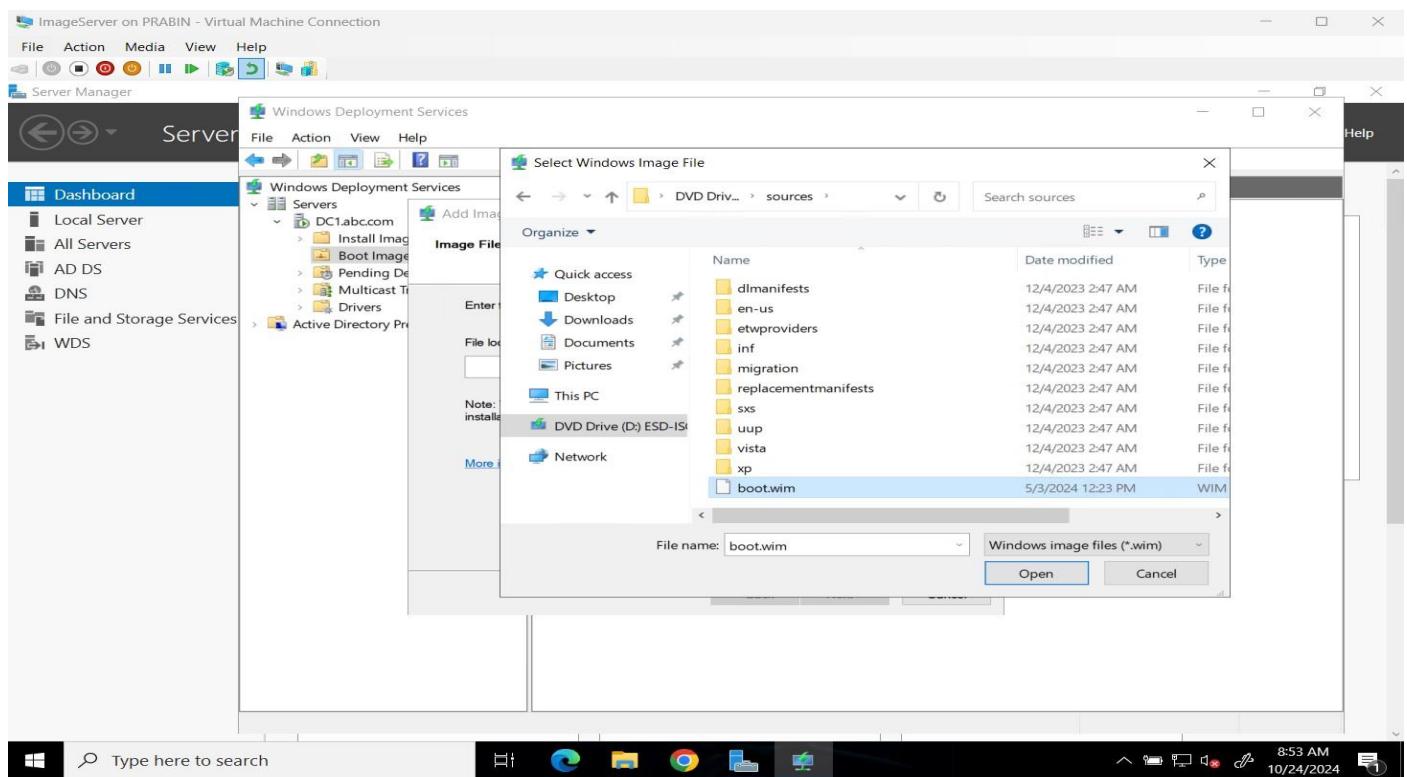


Step 10: Go to Windows Deployment Services > DC1 > Boot Image > Right click > Select Add Boot Image.

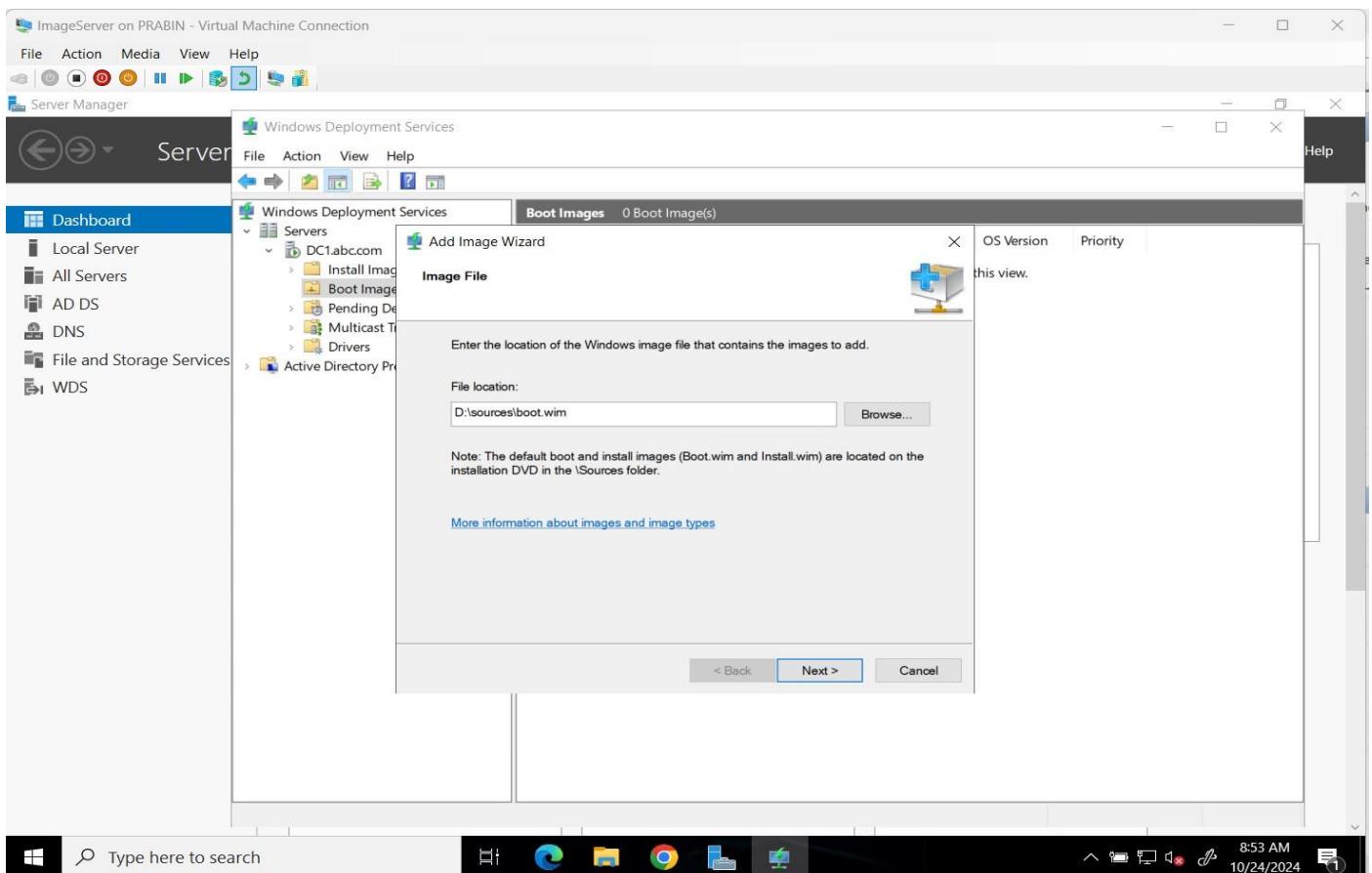
Boot images are used to start a client machine and load the setup interface.



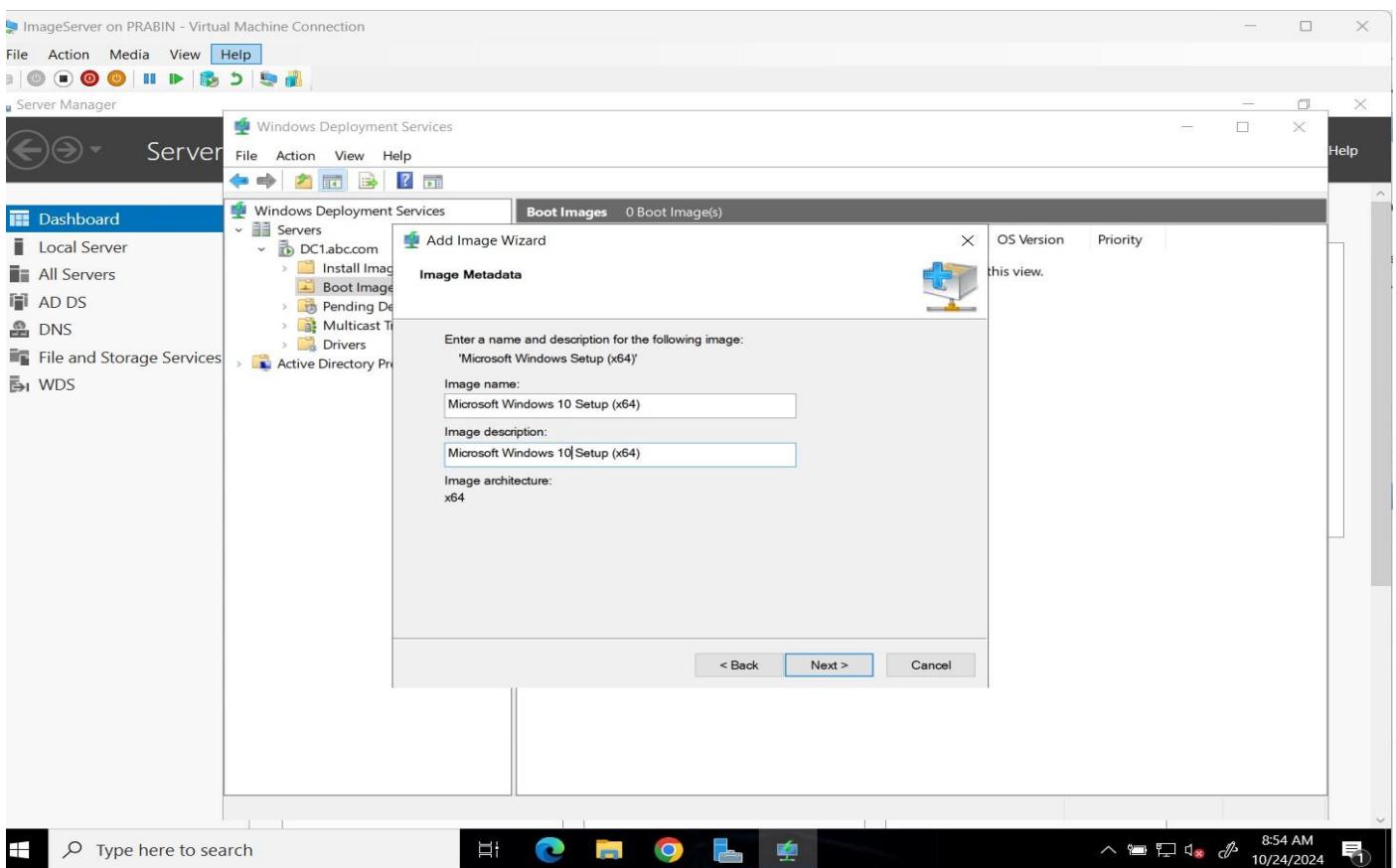
Step 11: Browse inside the DVD Drive > sources > Select “boot.wim” file



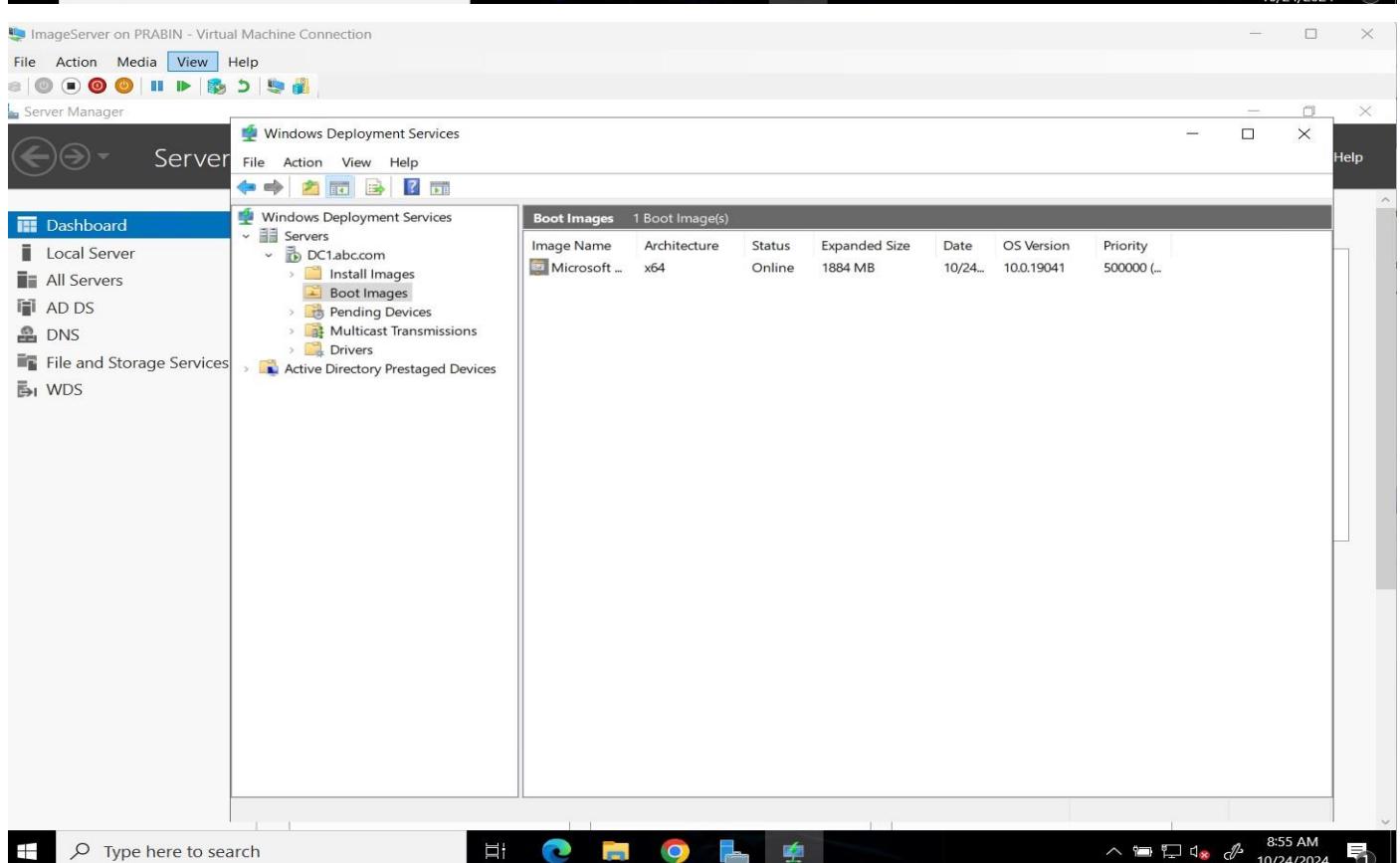
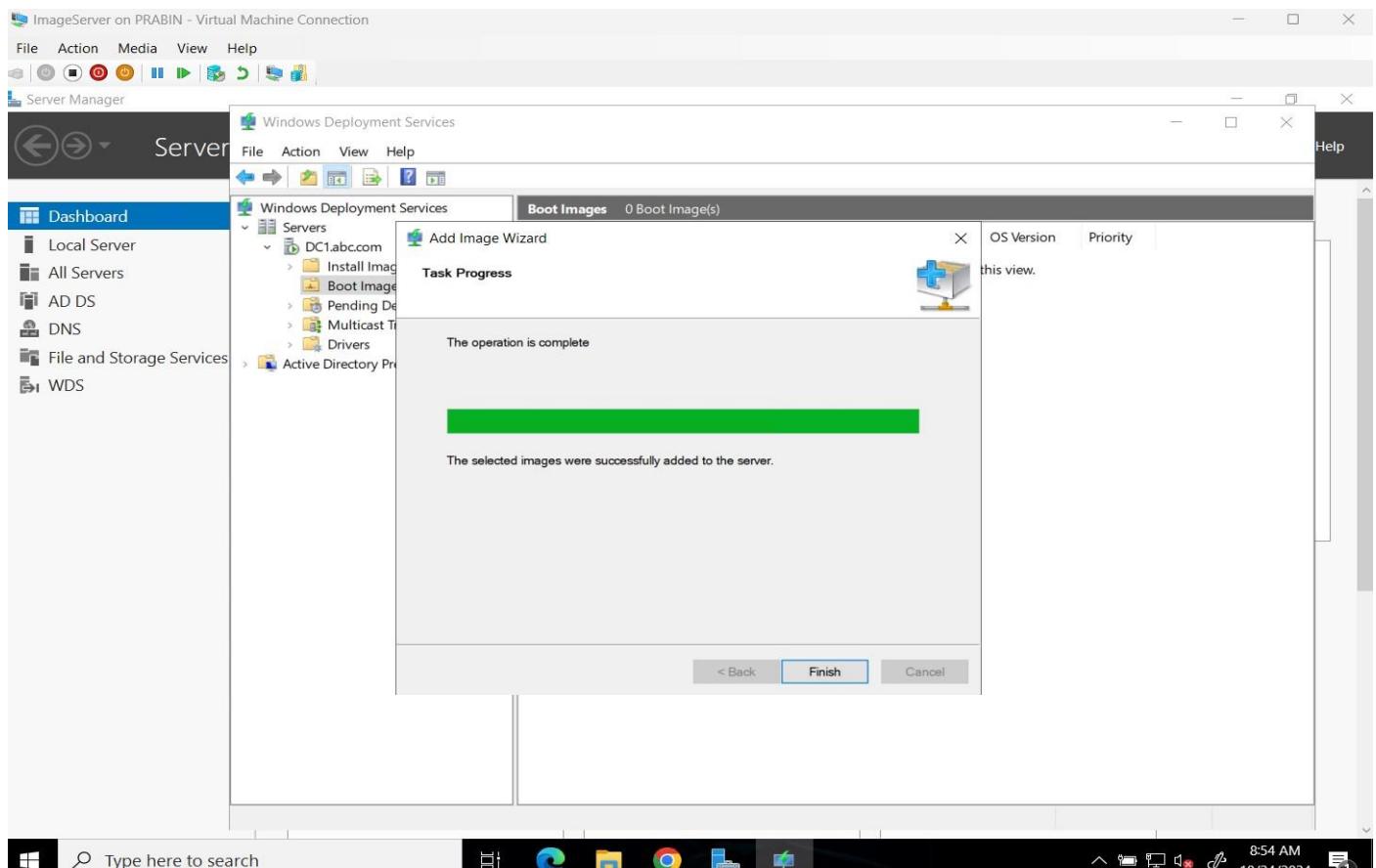
Step 12: We can see the specified location



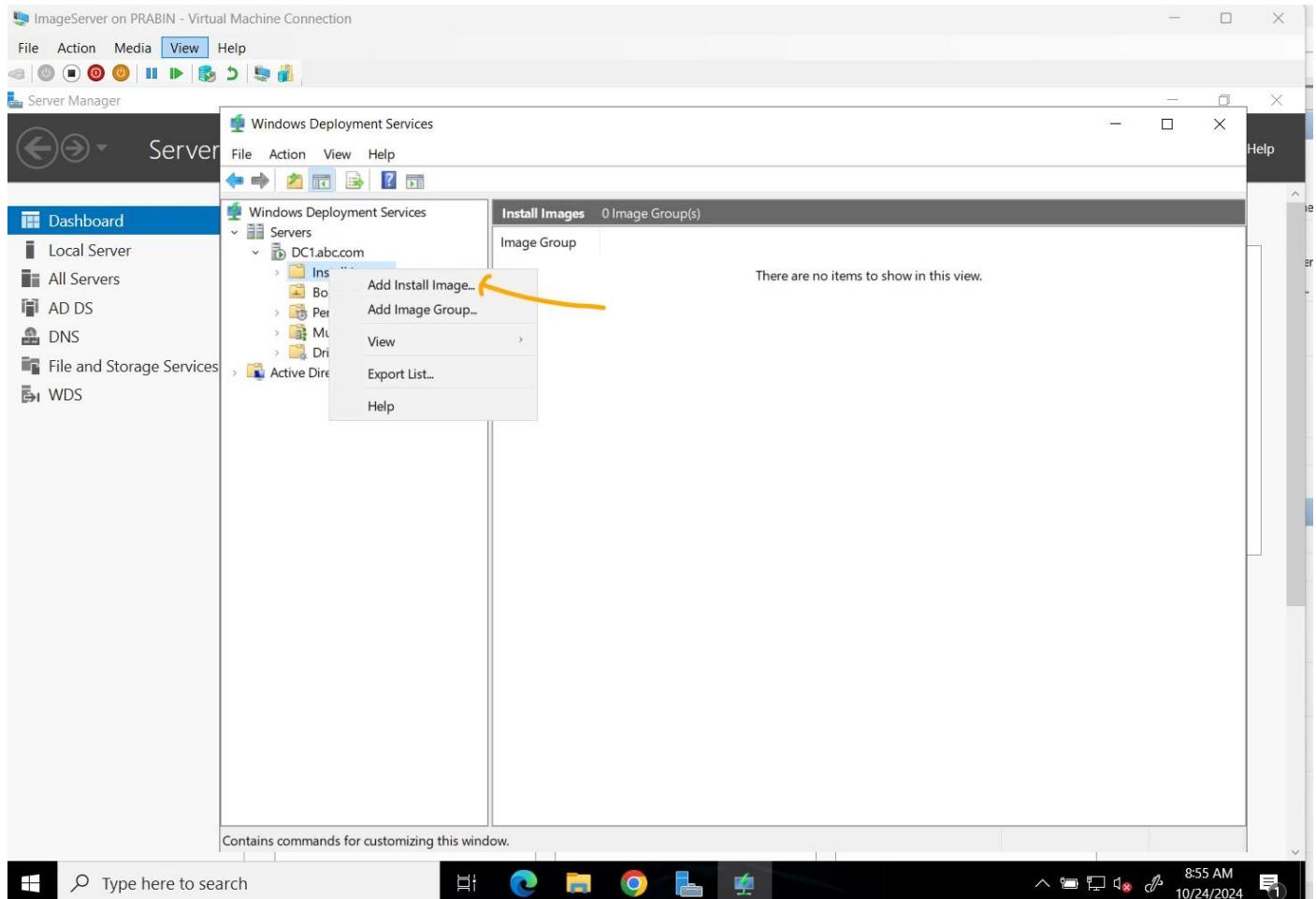
Step 13: Give the name & description for the file



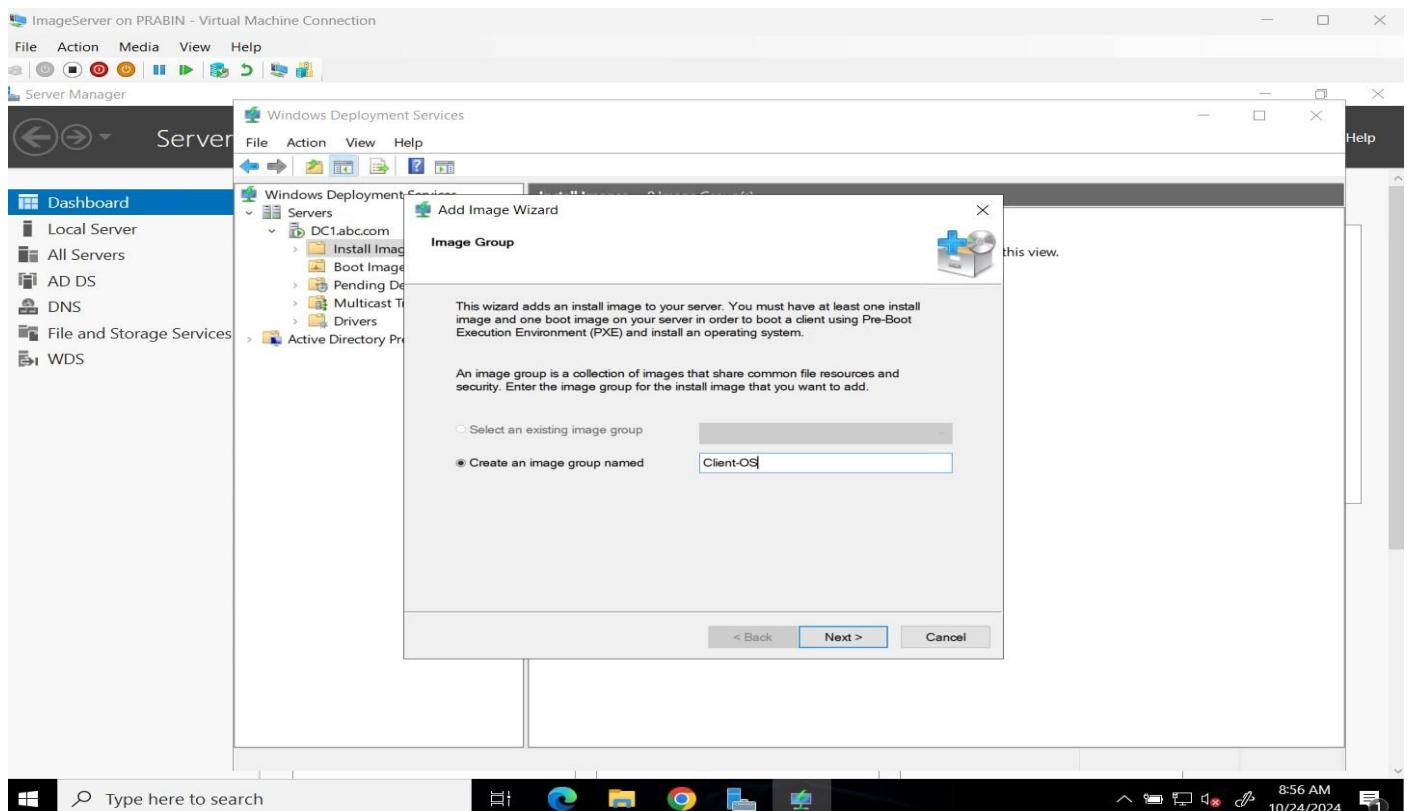
Step 14: Click next > After some time the process is complete & we can see the image file in boot image.



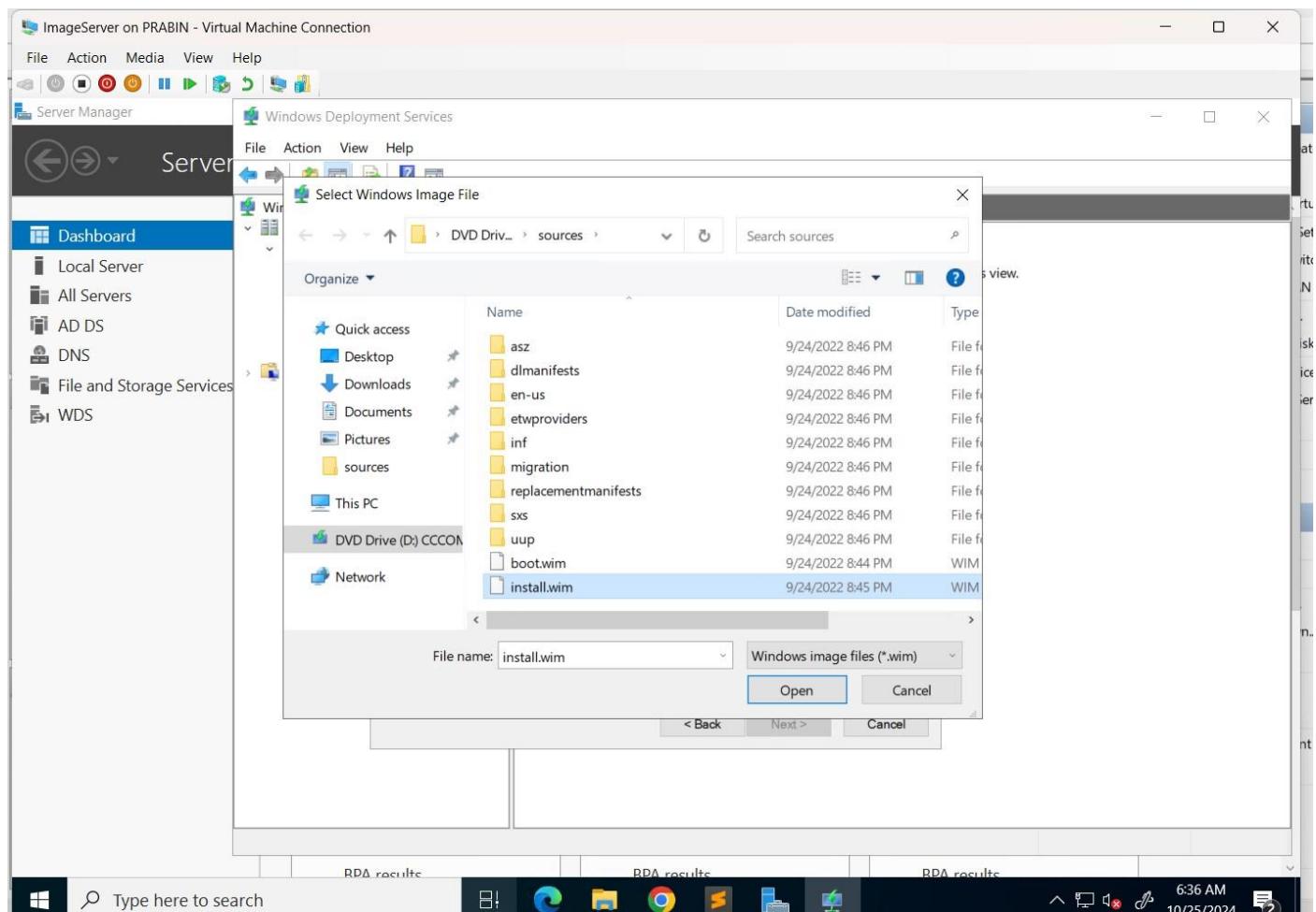
Step 15: Now right click on Install Images > Add Install Images (install images contain the actual operating system that will be installed.)



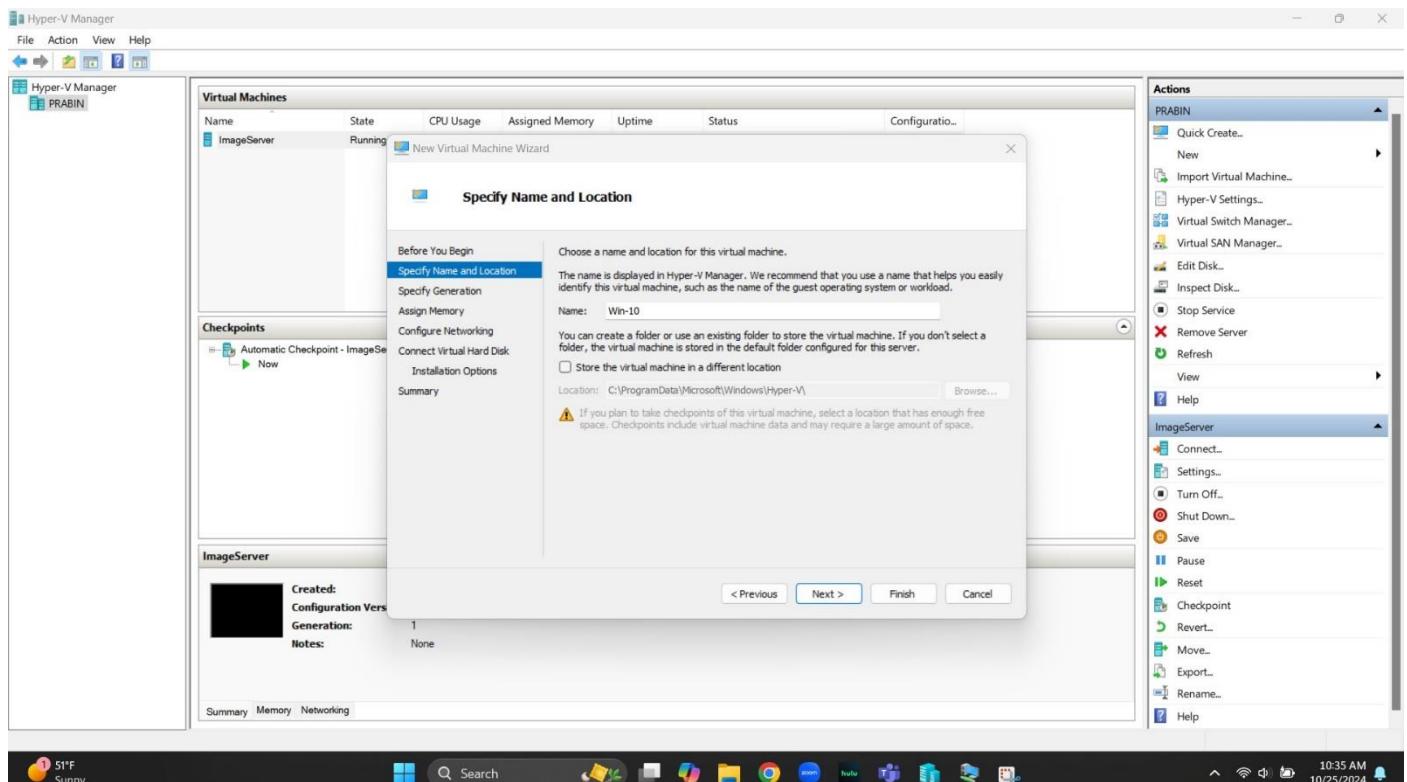
Step 16: Give the name for the image. > Next >



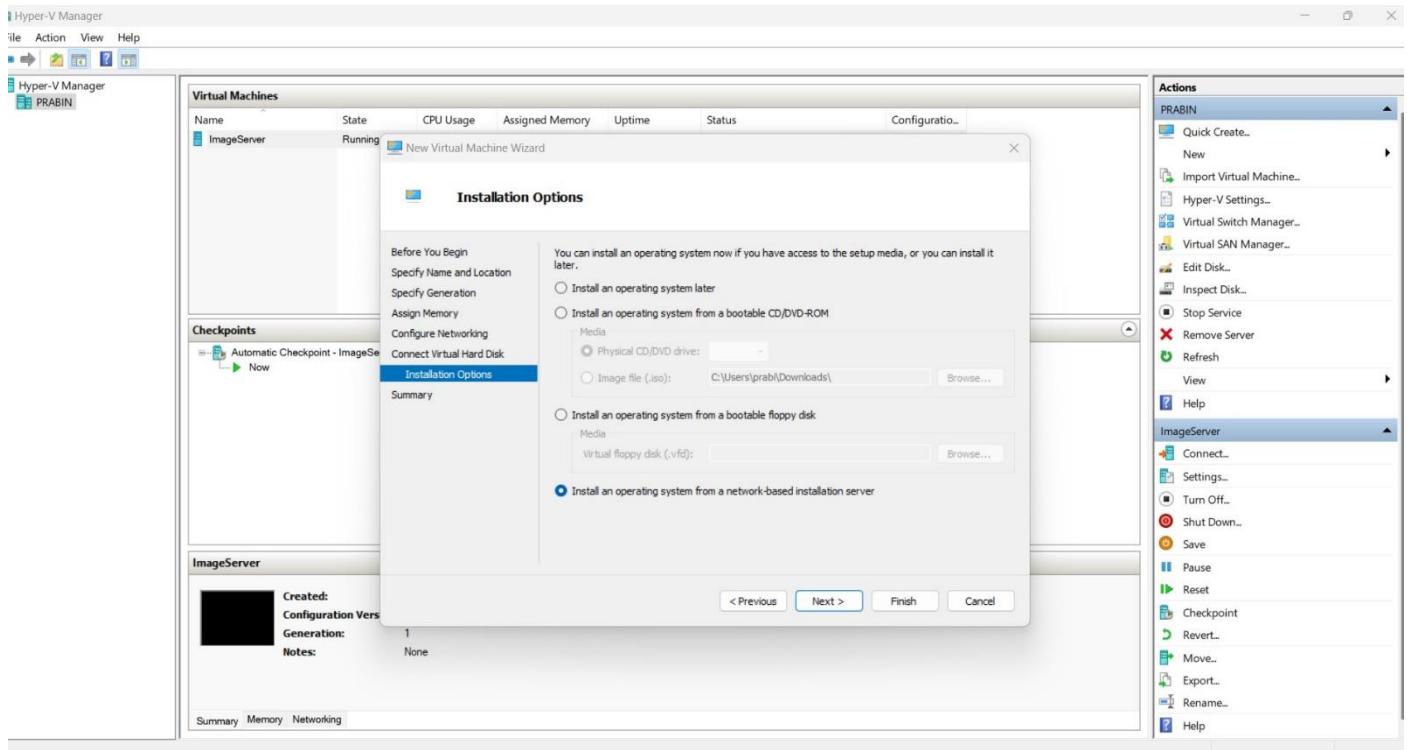
Step 17: Now inside the DVD drive browse install.wim file. Click on next & finish the process.



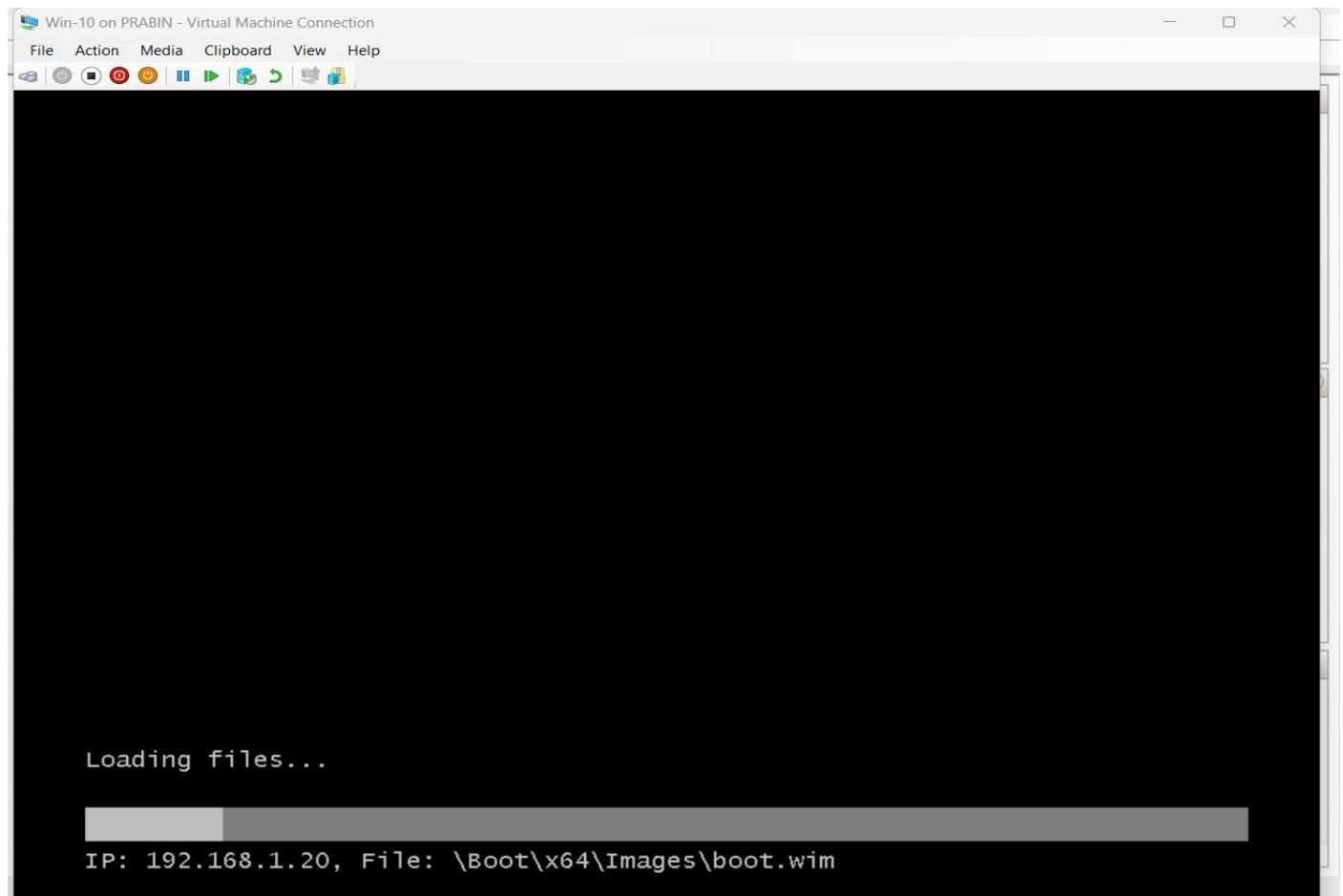
Step 18: Now we need to set up a Hyper-V virtual machine to act as the **client** that will receive the Windows OS deployment via WDS. Create a new VM in Hyper-V, give it a name Wind-10. > Next



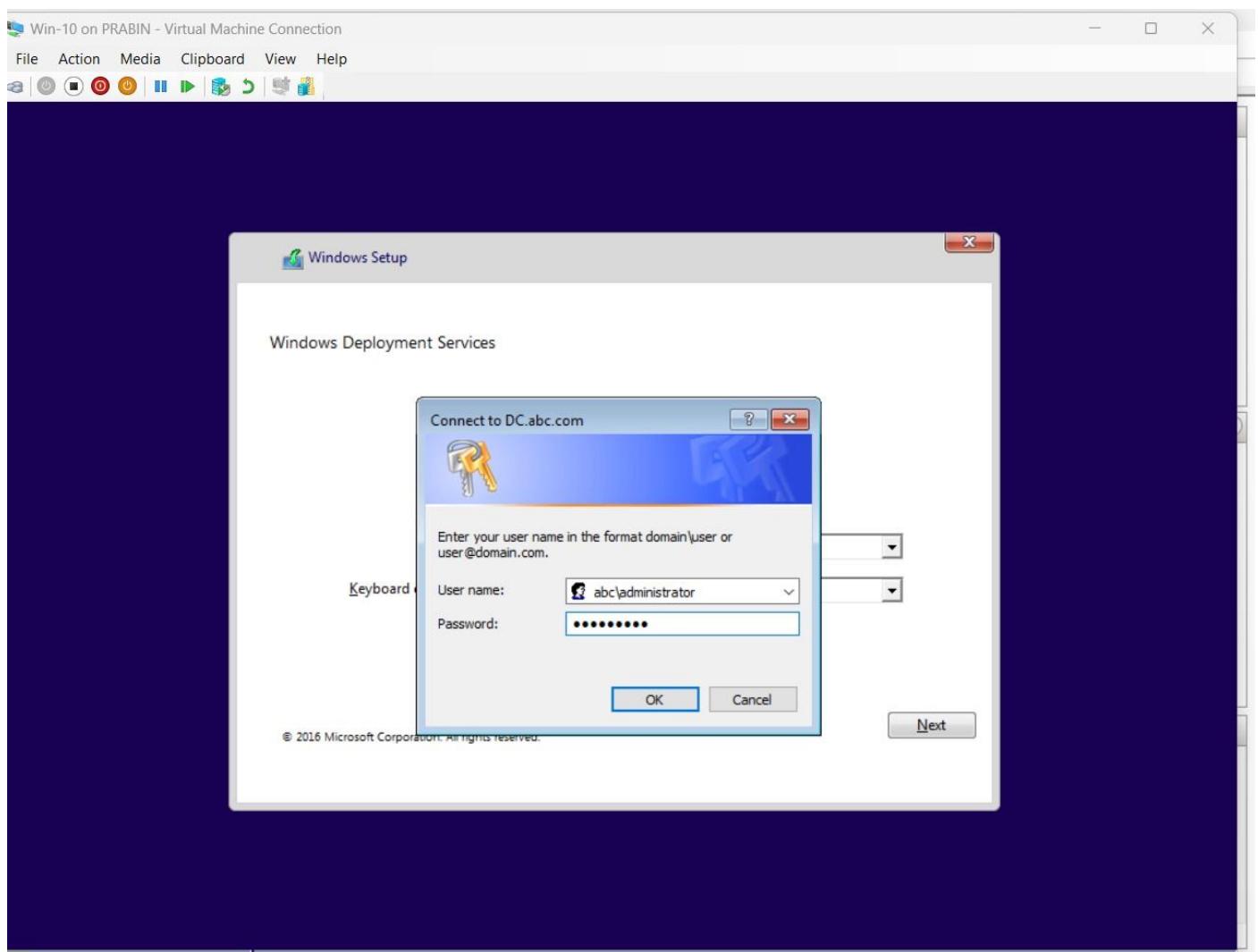
Step 19: On the installation options, select “Install an operating system from a network-based installation server”. > Complete the creation & Start the VM.



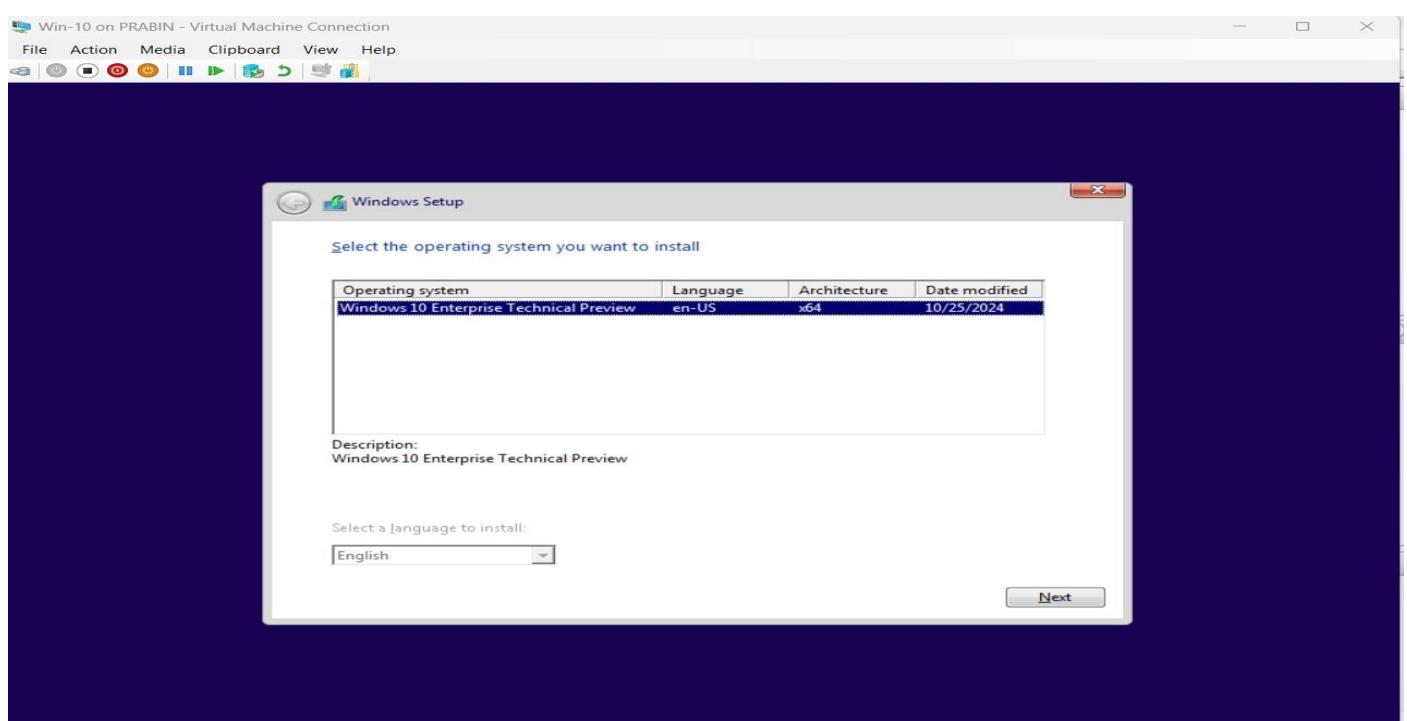
Step 20: Once the VM starts, you need to press the **F12** key for network boot. The client machine loads the **boot.wim** from the WDS server.



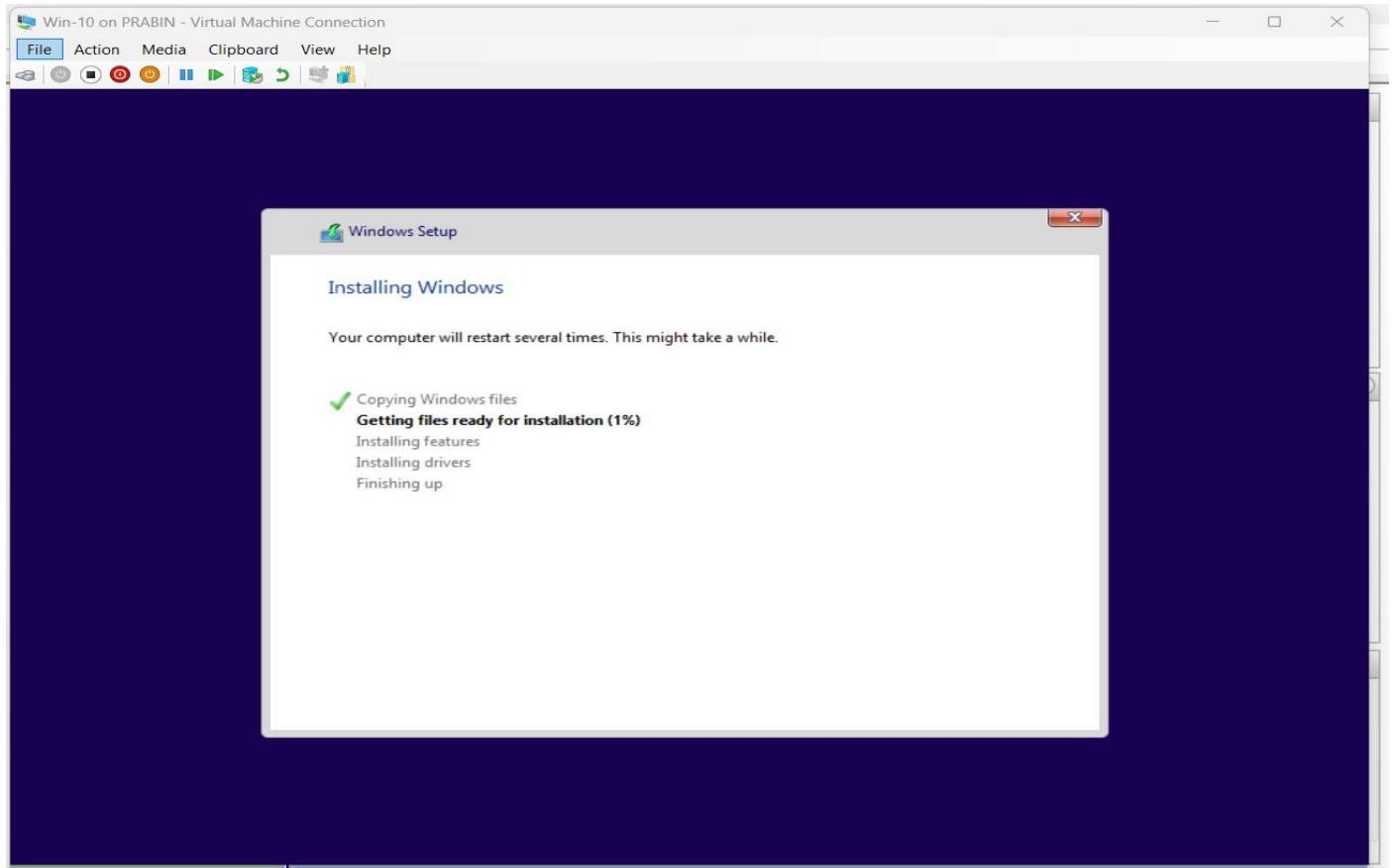
Step 21: Once the loading is done, you will be landing to this page. Give DC1 username & password. Click Next.



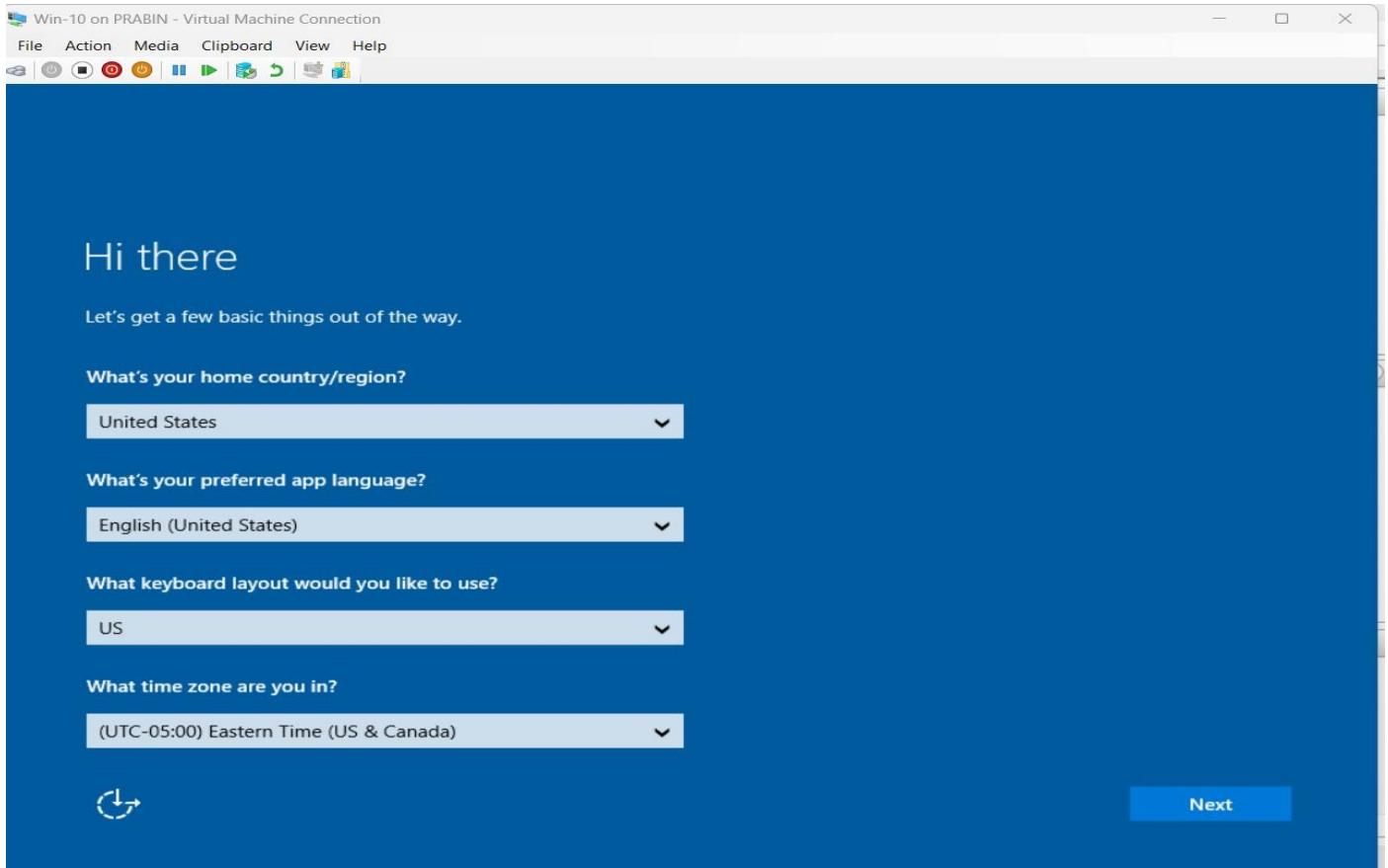
Step 22: Choose the option shown here & click next



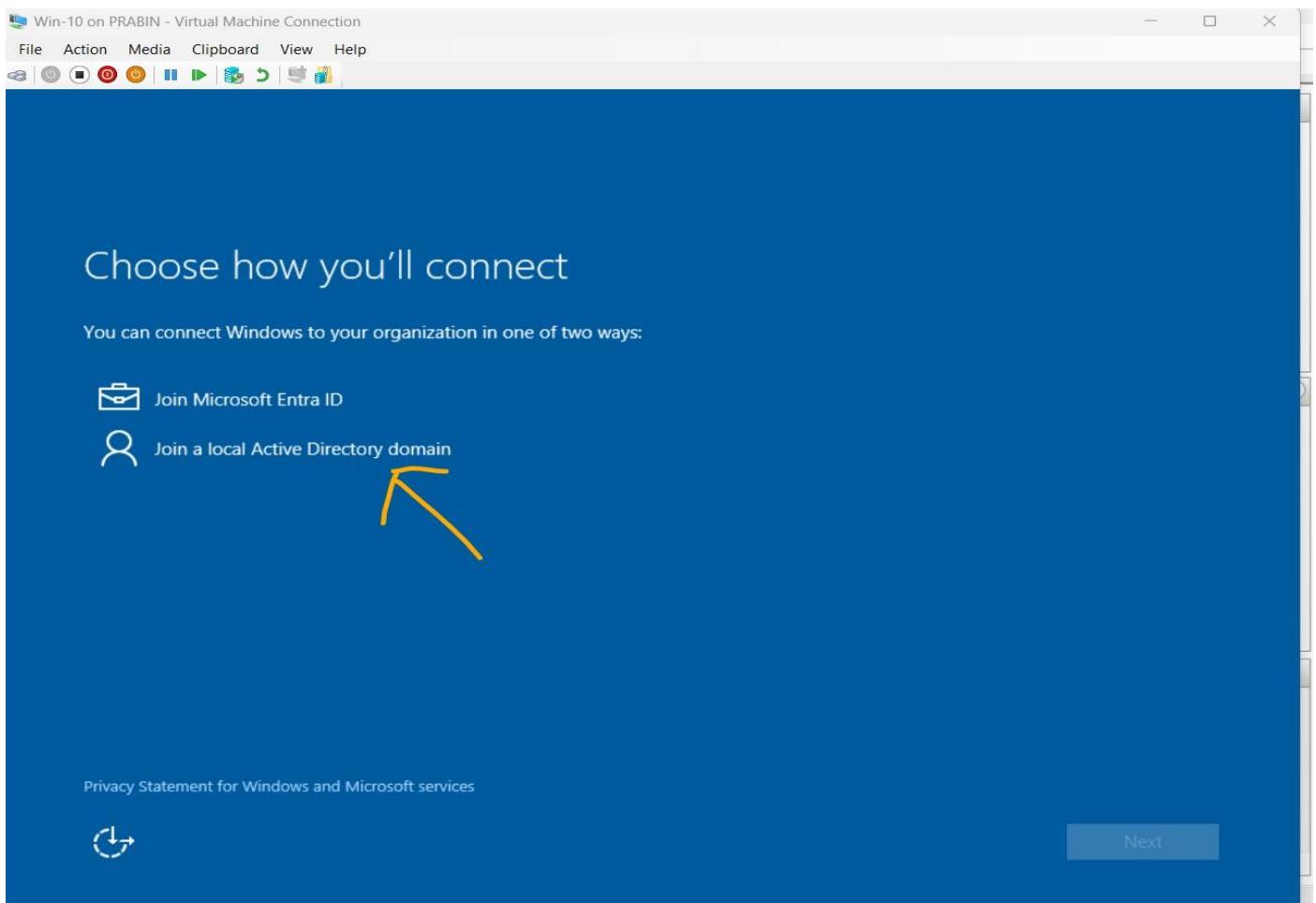
Step 23: Installation started.



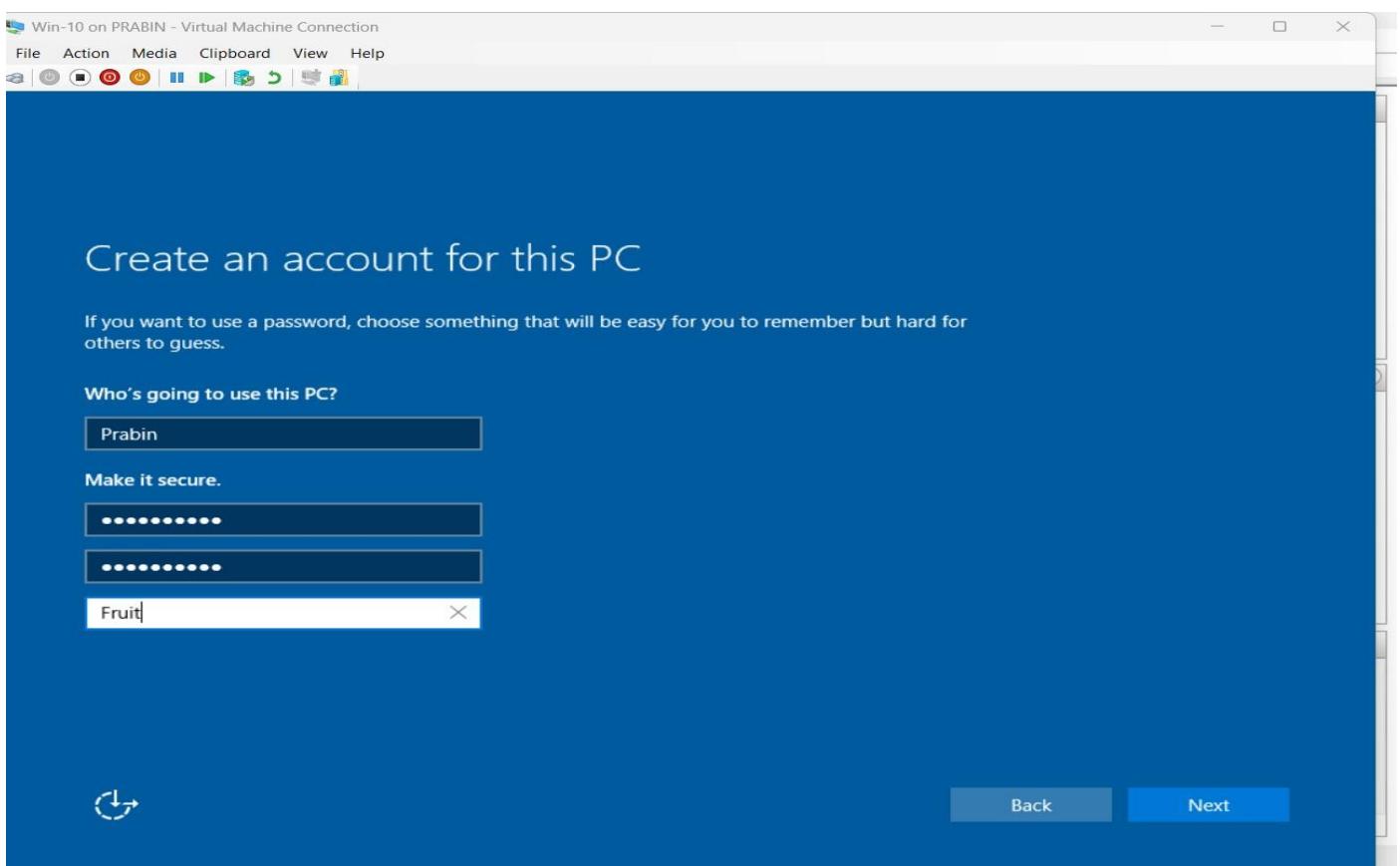
Step 24: After the completion of installation you will see the black screen as in step 20, don't do anything just wait sometime you will land to this page. Fill up the information. Click Next.



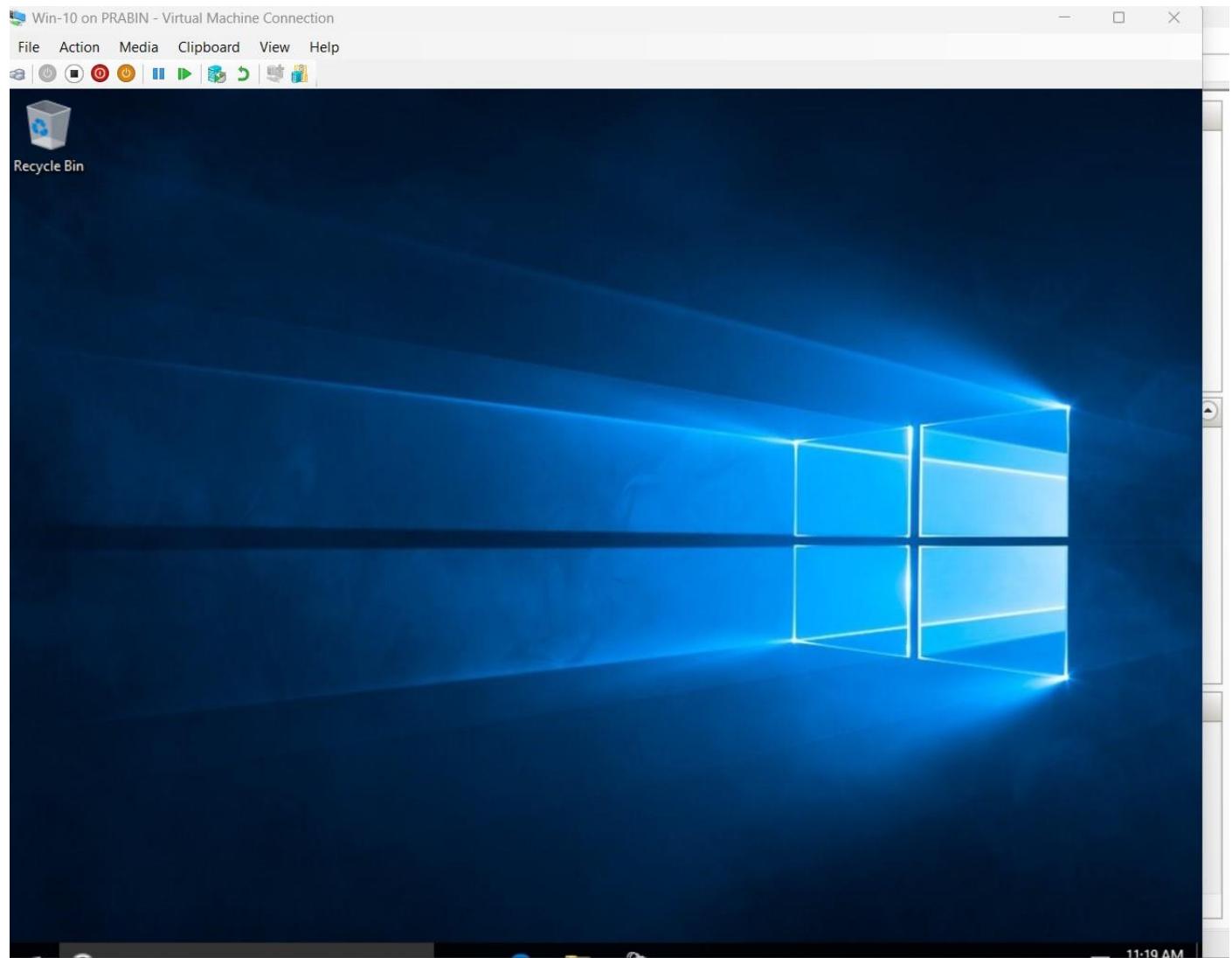
Step 25: Select Join a local Active Directory Domain option & click next



Step 26: Give the name & password of a user



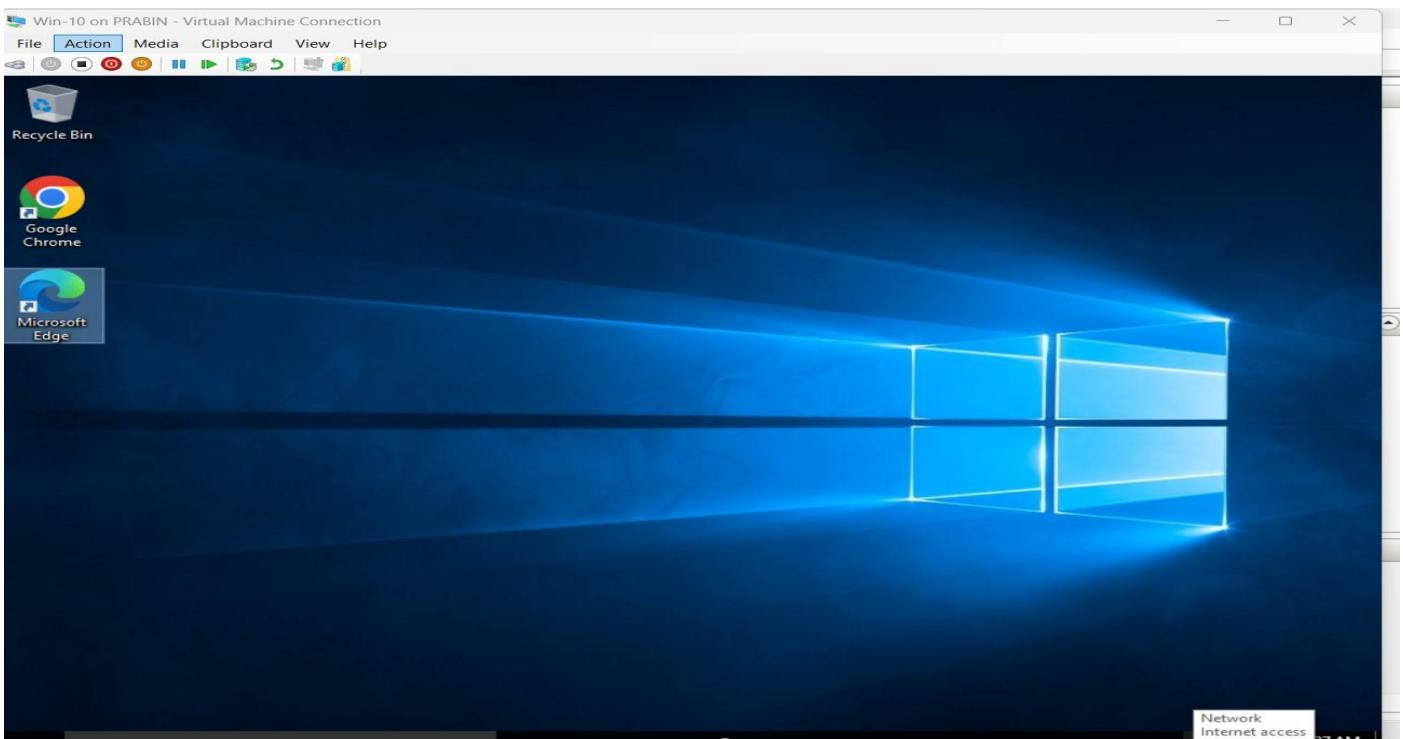
Step 27: A fresh Windows-10 PC has been created from the network by using the image we created in DC. This will complete our Part-1.



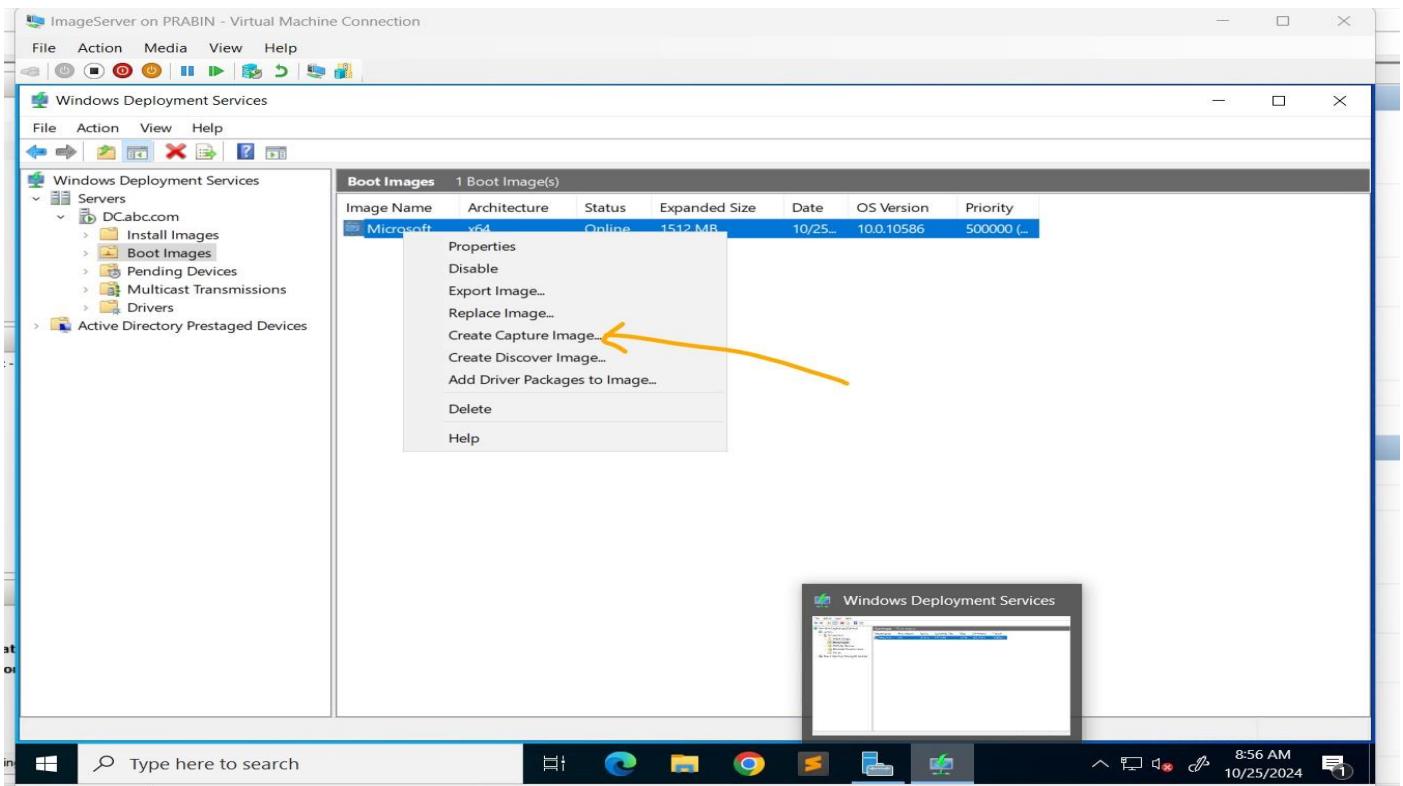
Part-2: Custom Image Deployment

Now A custom win10 pic loaded with all the company applications will be imaged and transfer that image to the server and all the fresh pcs will be automatically loaded will all those applications through Pixi Network adapter boot without installing an ISO file in fresh PC.

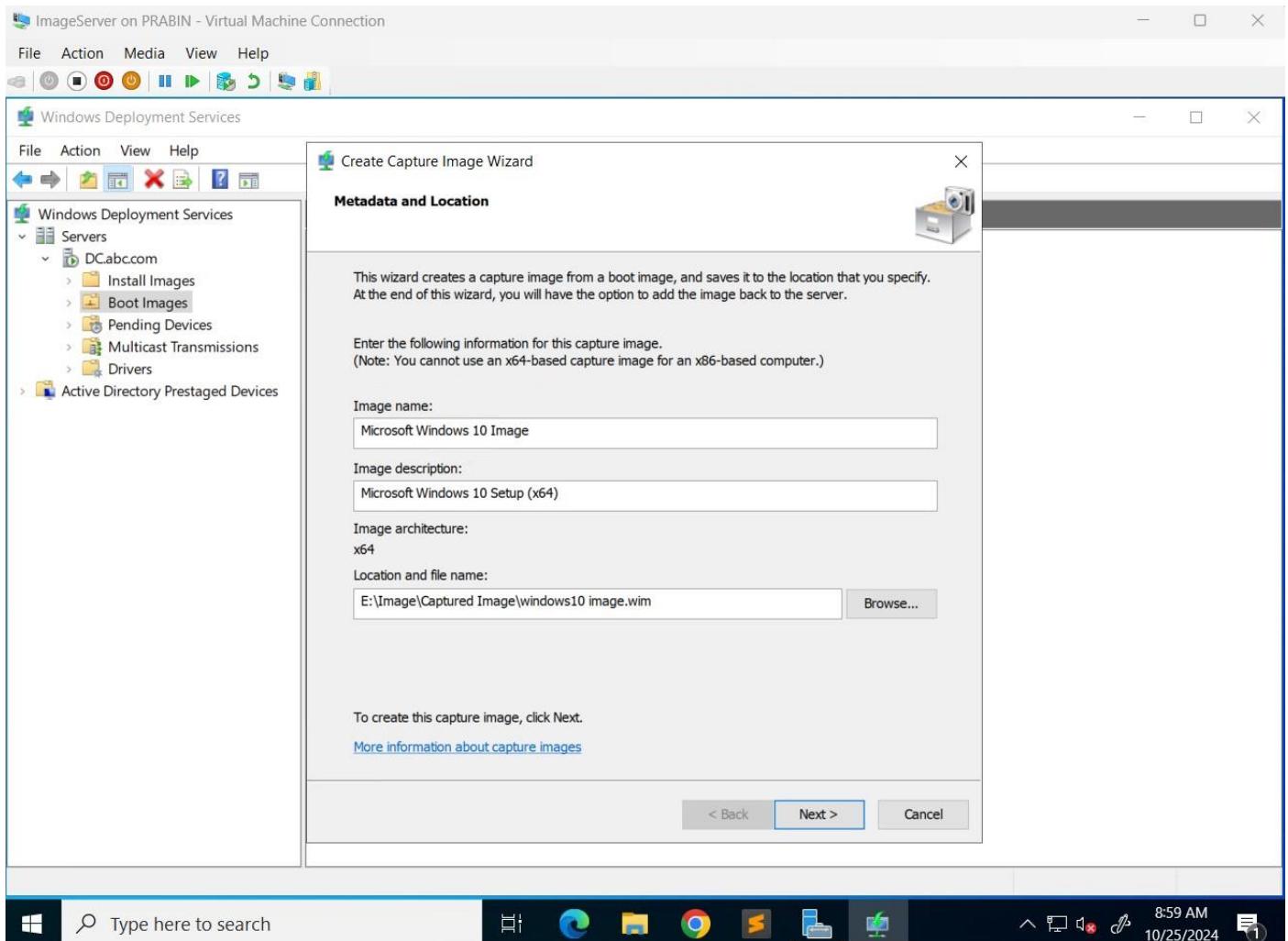
Step 1: I have installed some applications in the Win-10 PC.



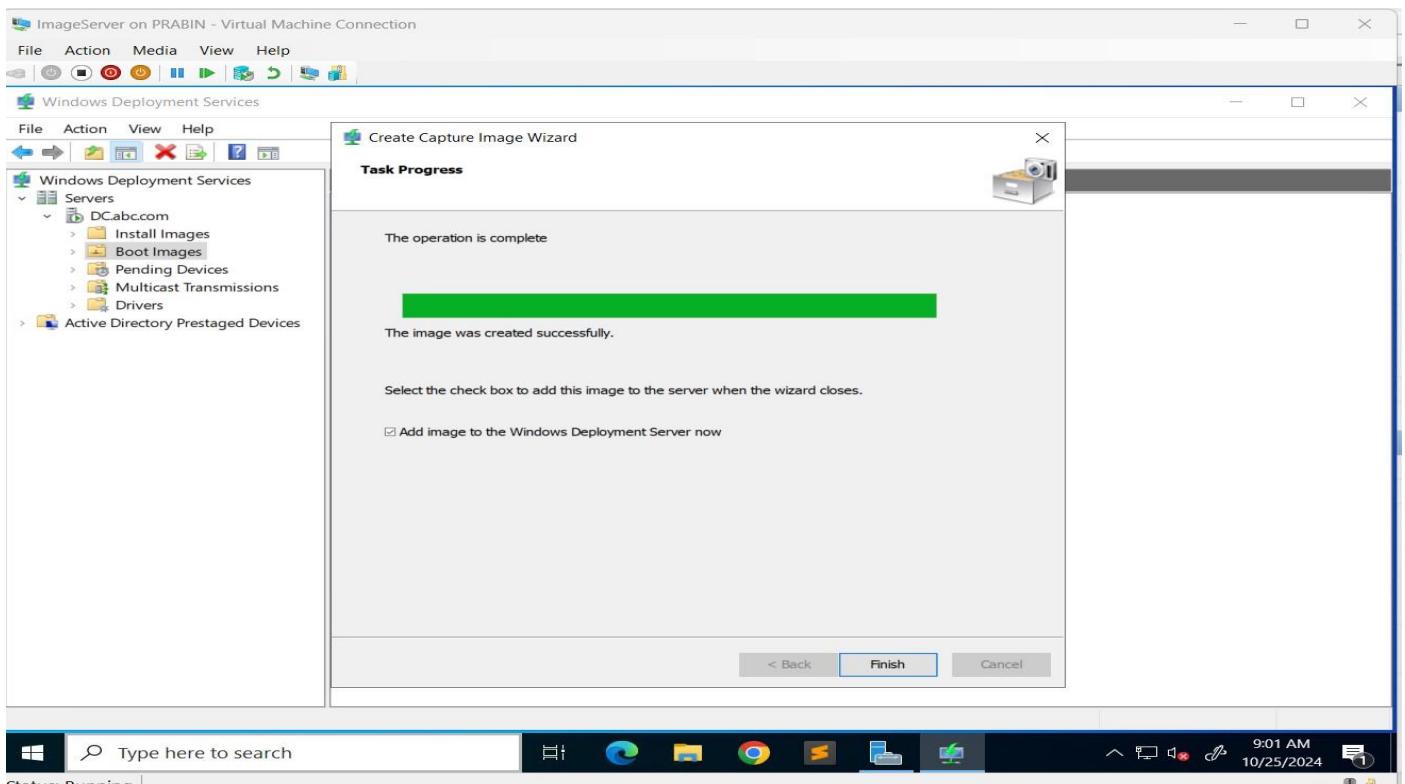
Step 2: Now go to DC, windows deployment services > Boot Image > Right click the Image file > Create Capture Image.



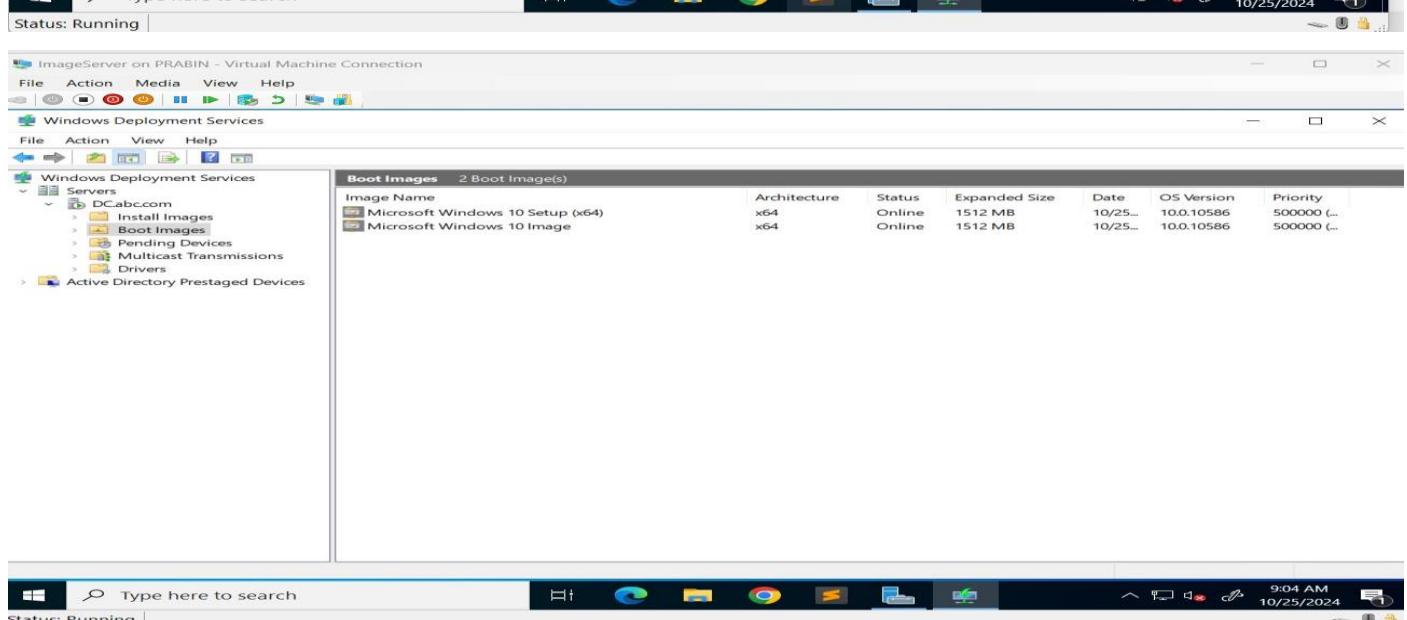
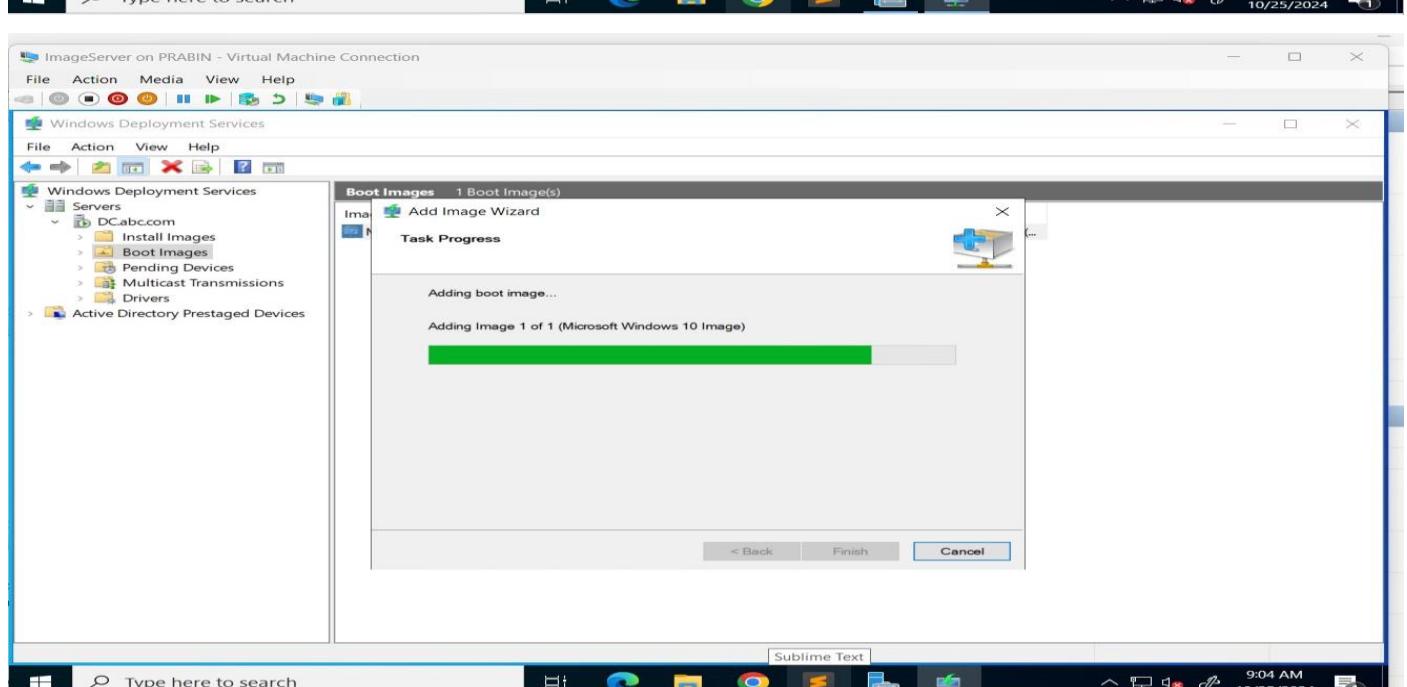
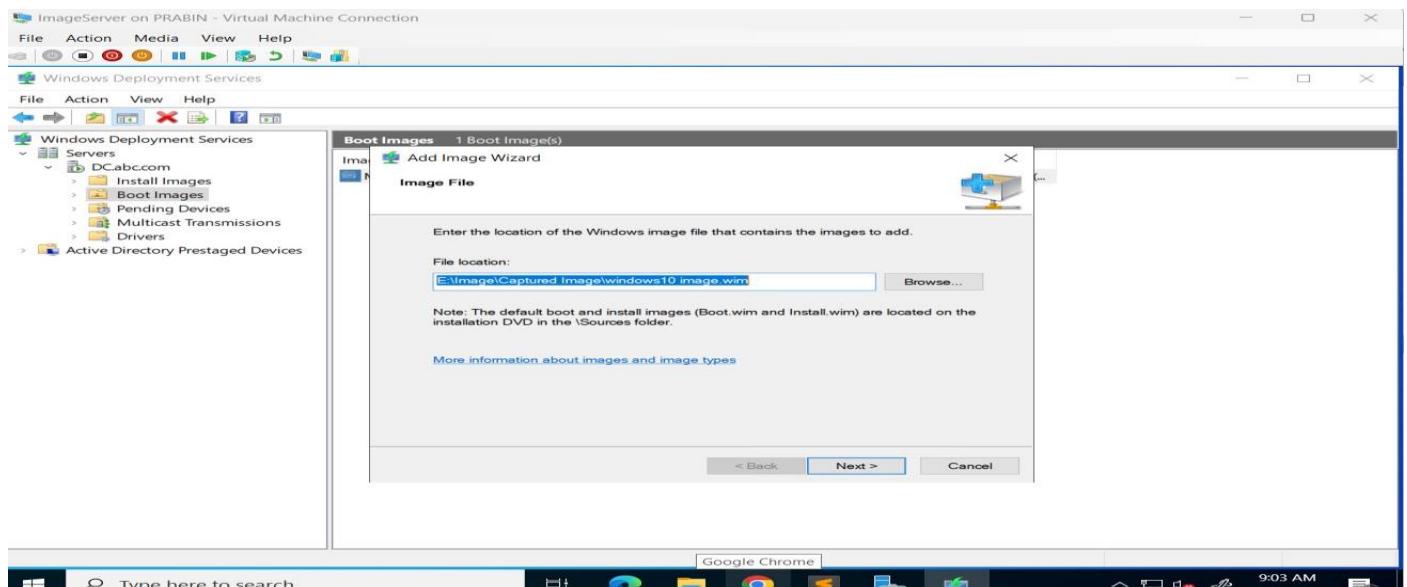
Step 3: Give the name & description of the image & also specify the location & file name. Click Next



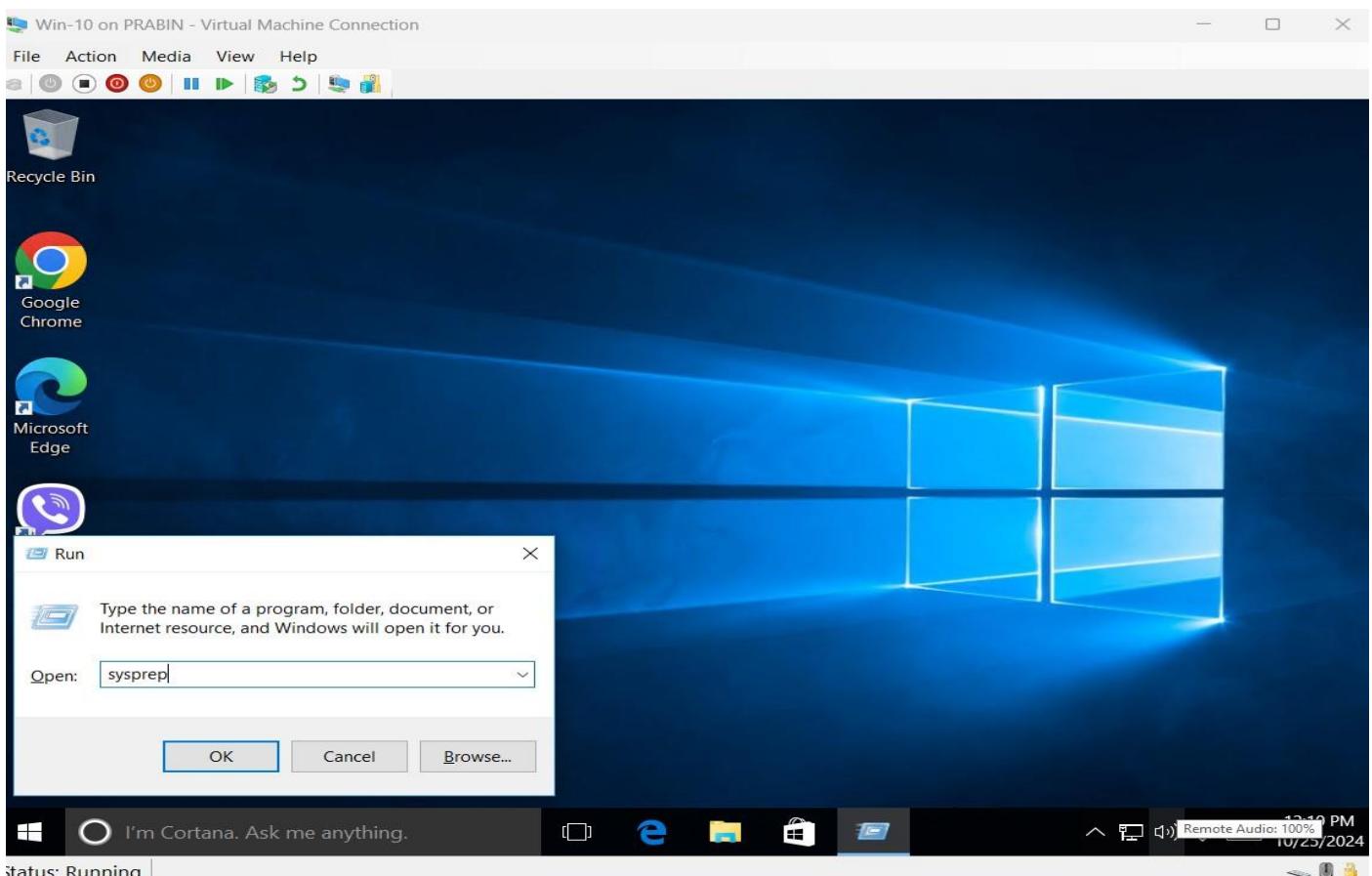
Step 4: It will Create capture image once finished. Click on checkbox as show in picture.



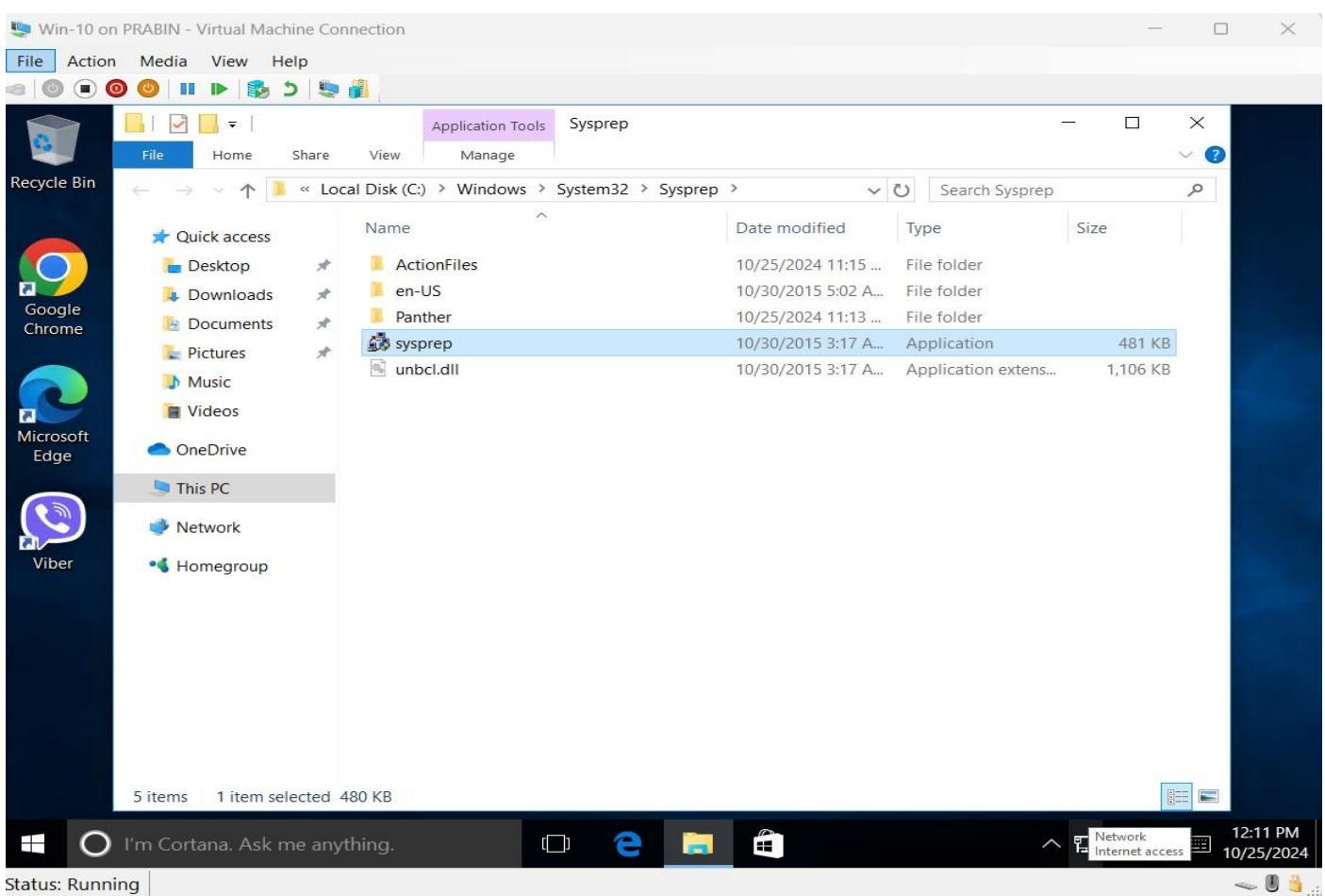
Step 5: Click next it will store the image in the specified location. & Also add the image in the WDS.



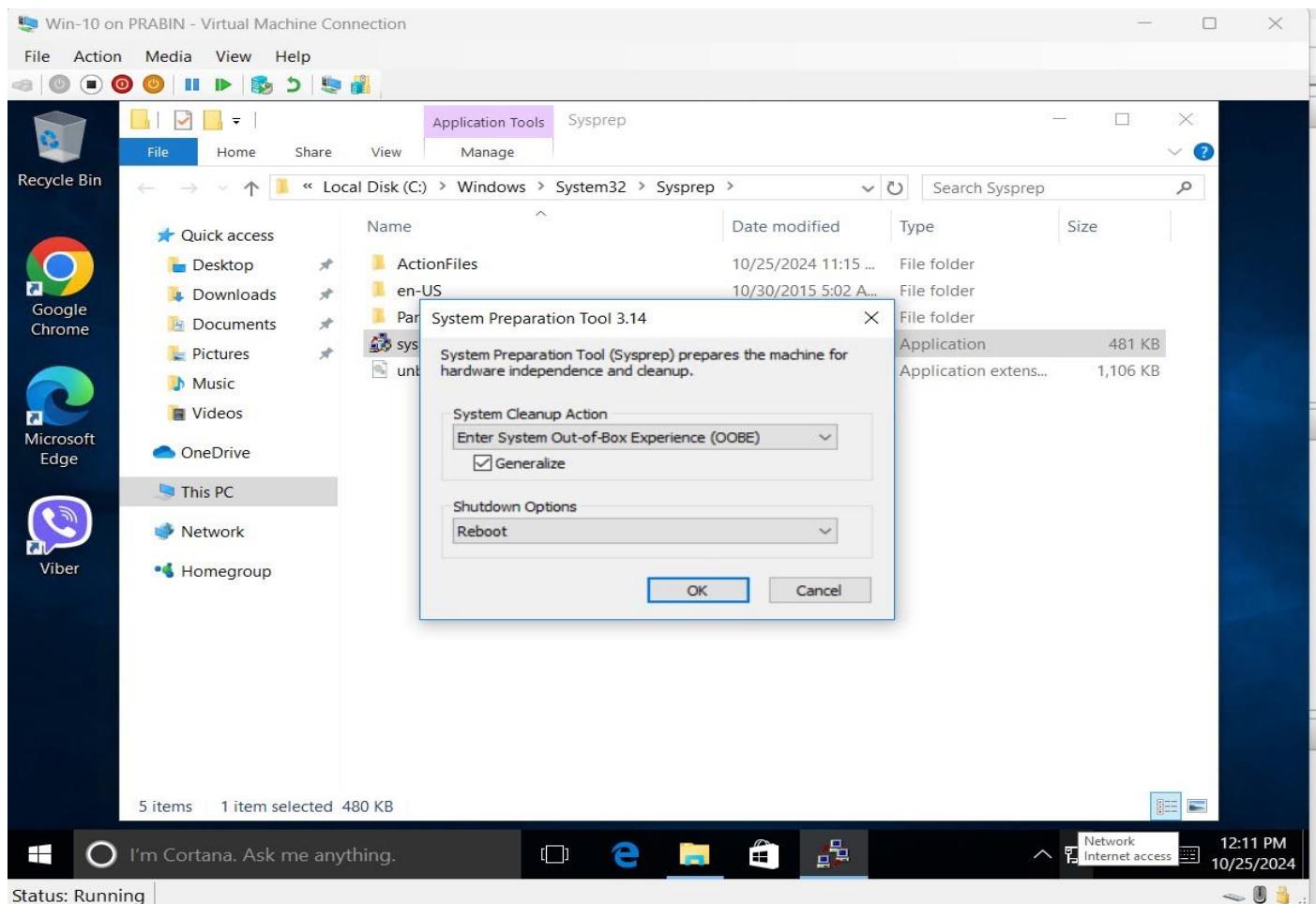
Step 6: Now to Win-10 PC > Run > type : sysprep



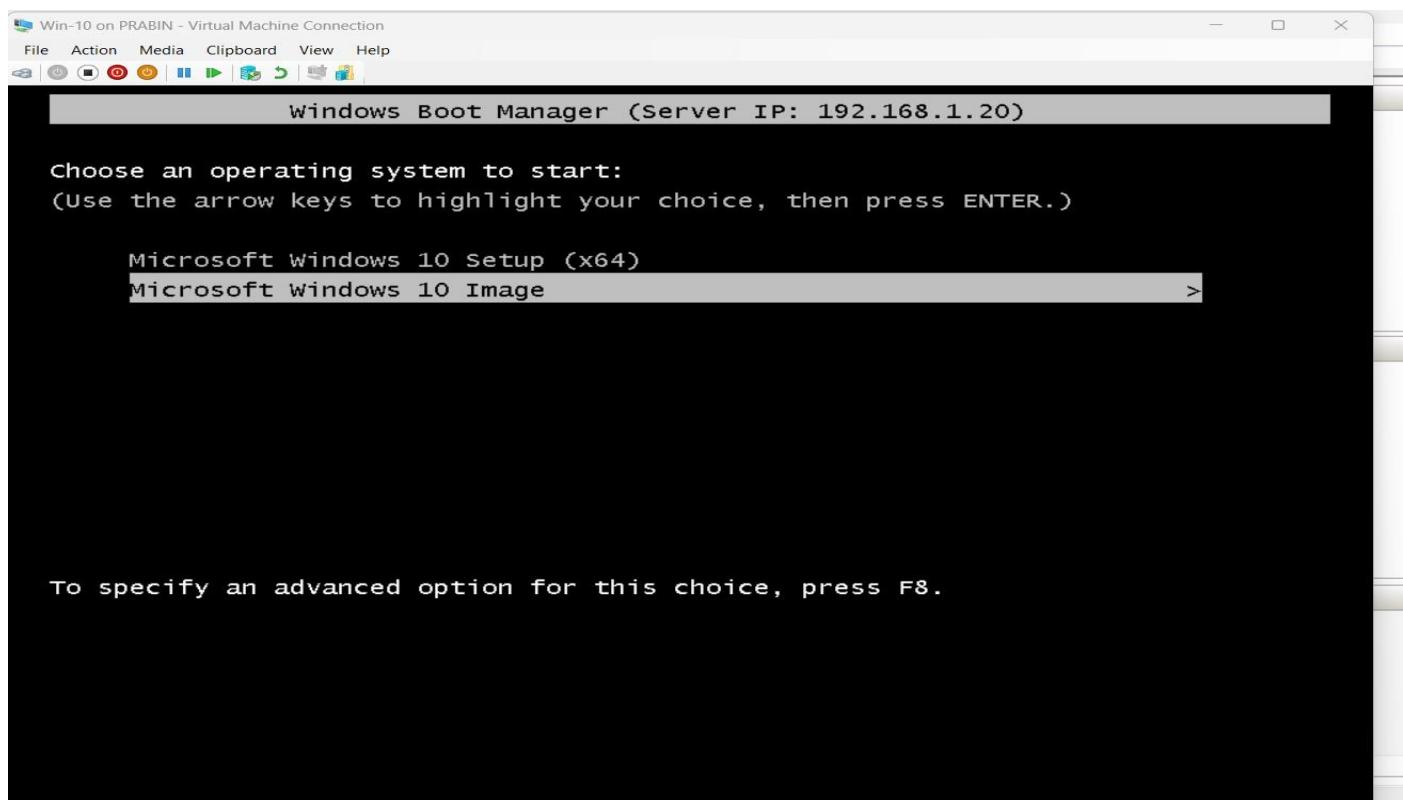
Step 7: Double click the sysprep file



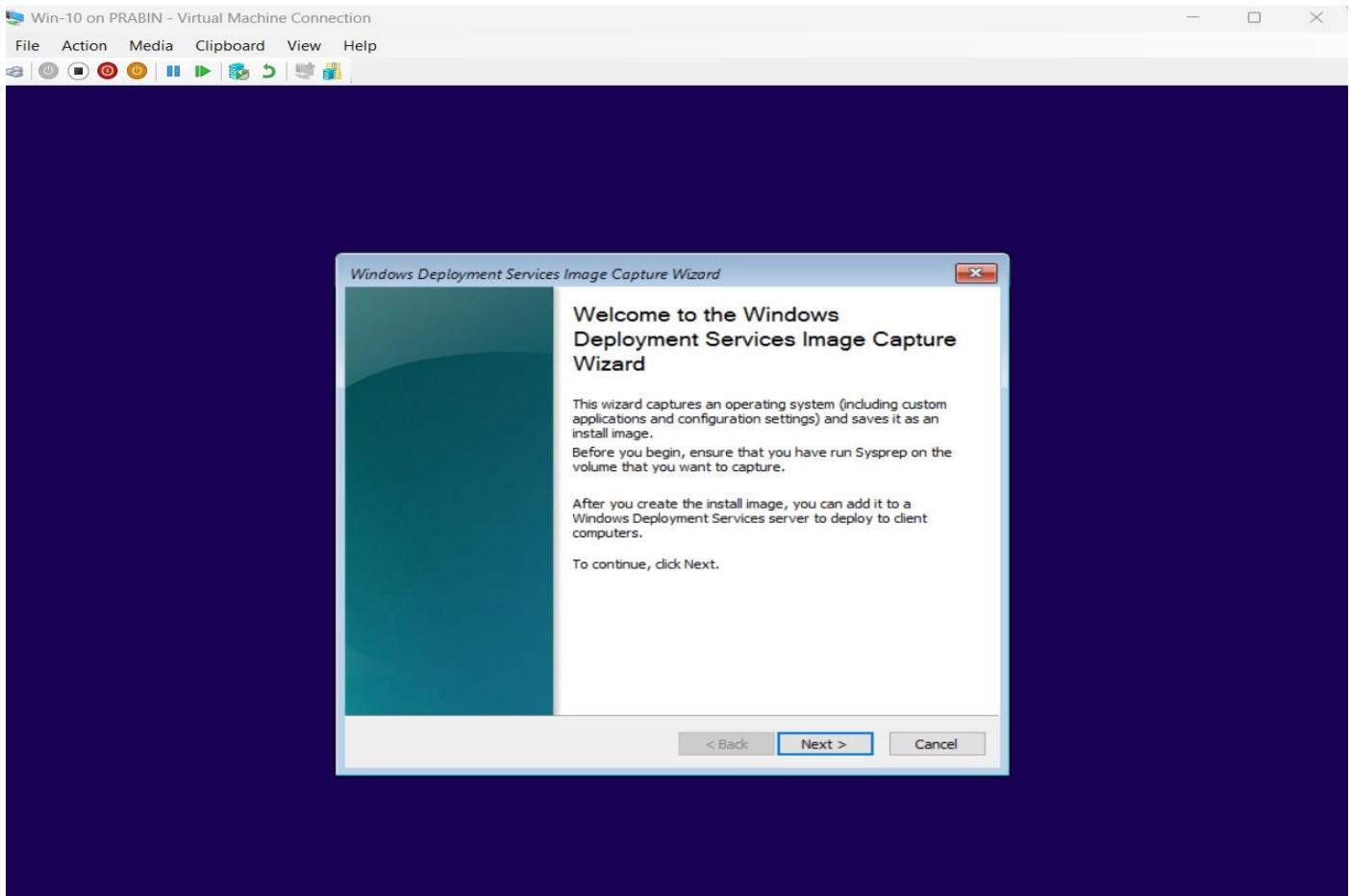
Step 8: Click the options selected in the screenshot below > OK



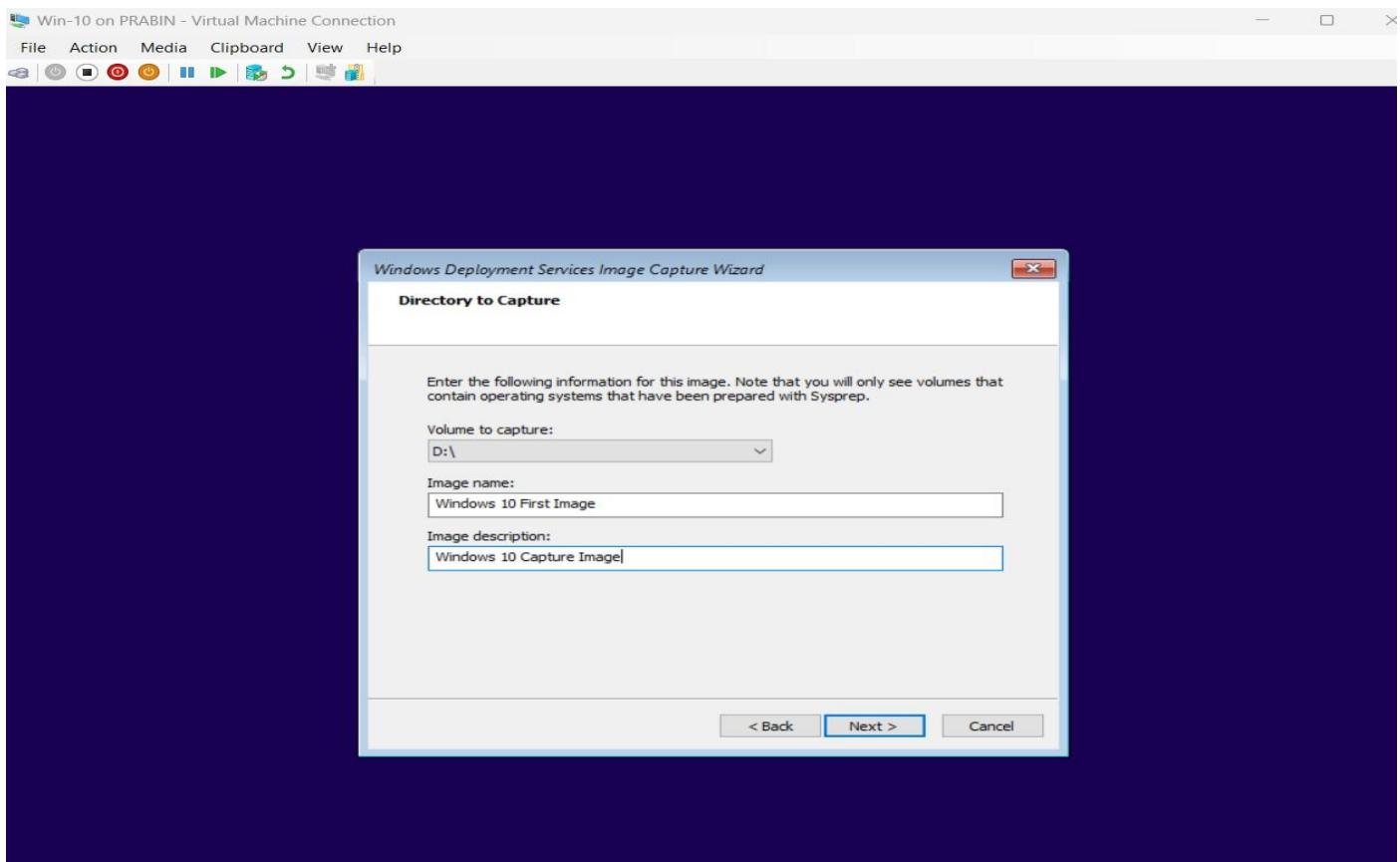
Step 9: Now, this computer is configured to boot from the network. During the next boot, simply press F12 and select the 'Microsoft Windows 10 Image' option, then press the Enter key.



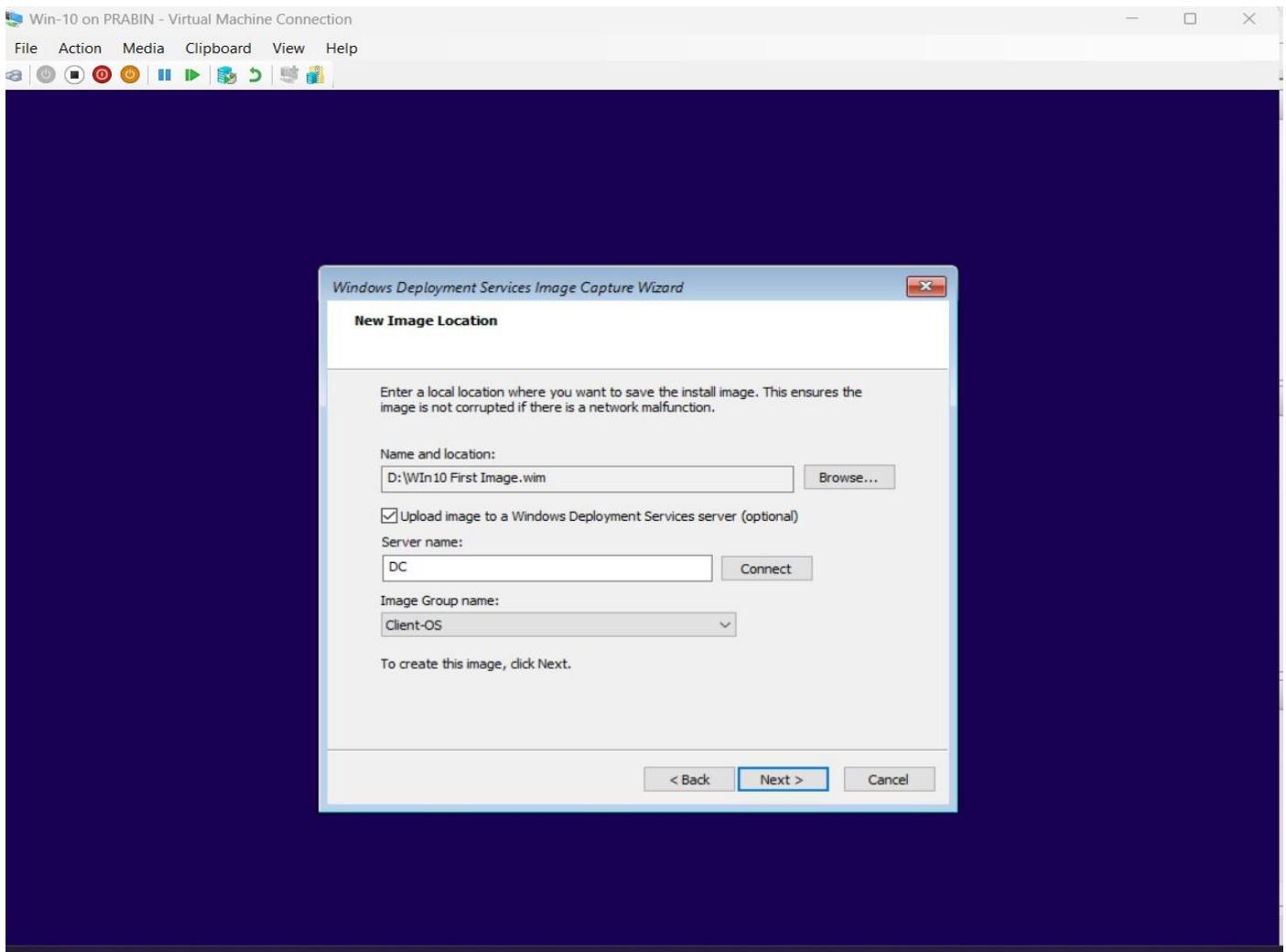
Step 10: You will land in this wizard after sometime. Click Next



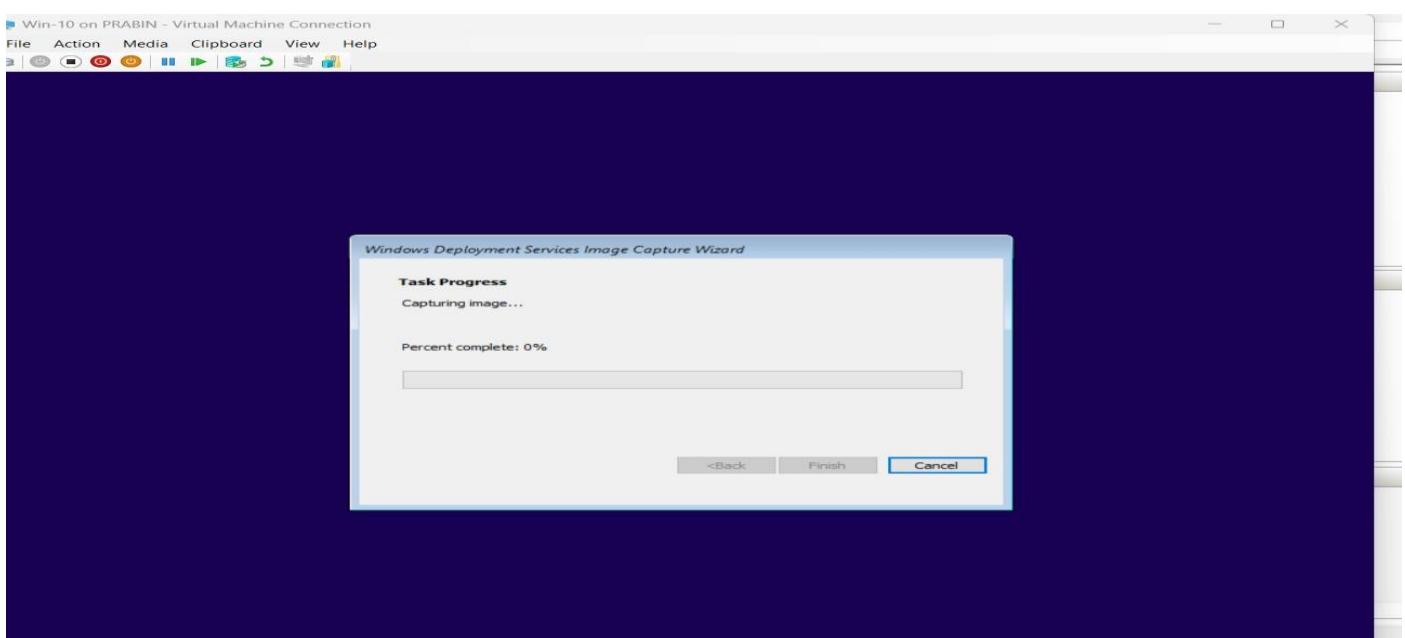
Step 11: Here, it will ask for the name and location where you want to store this image, as you need to store it locally first by default. Click Next.

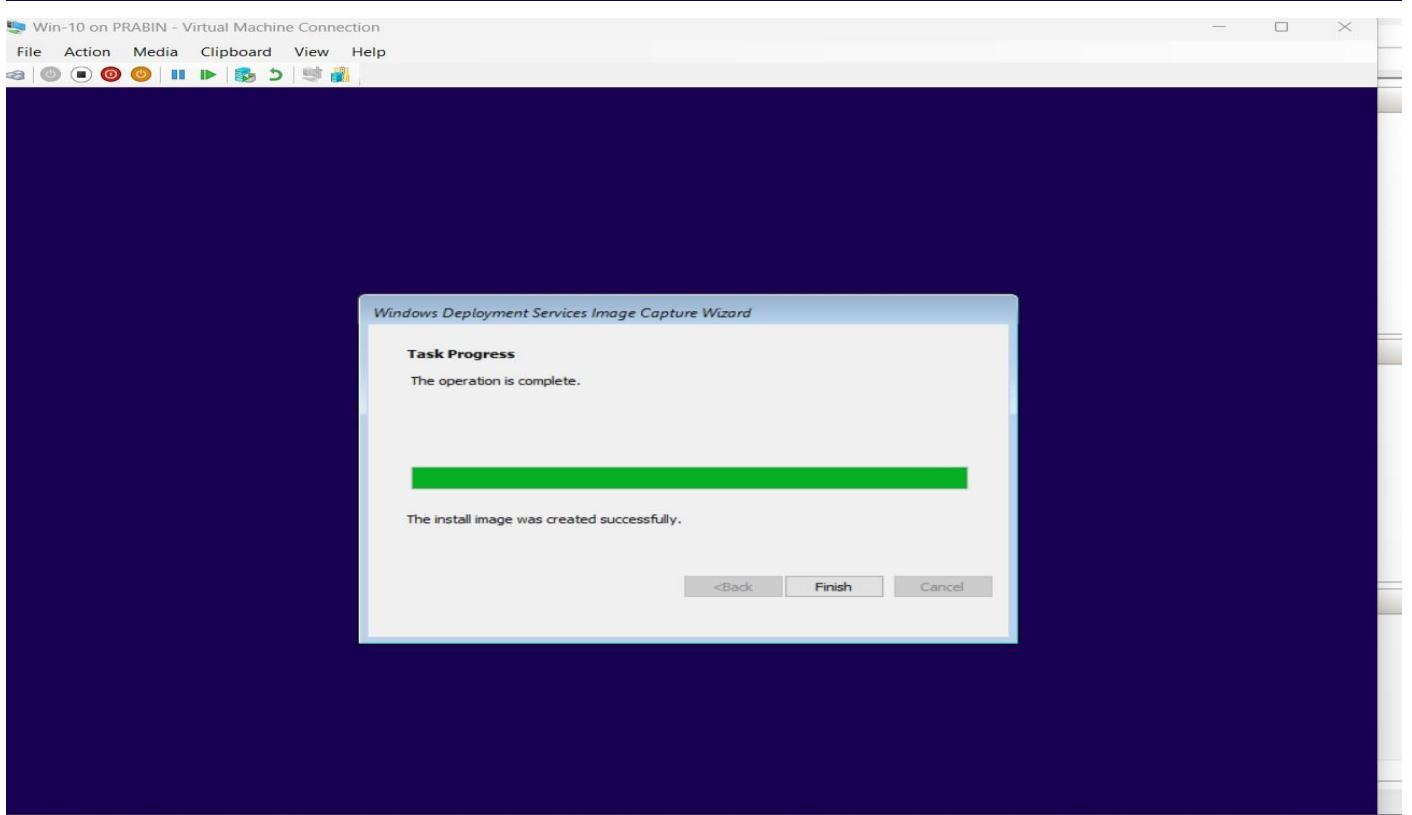
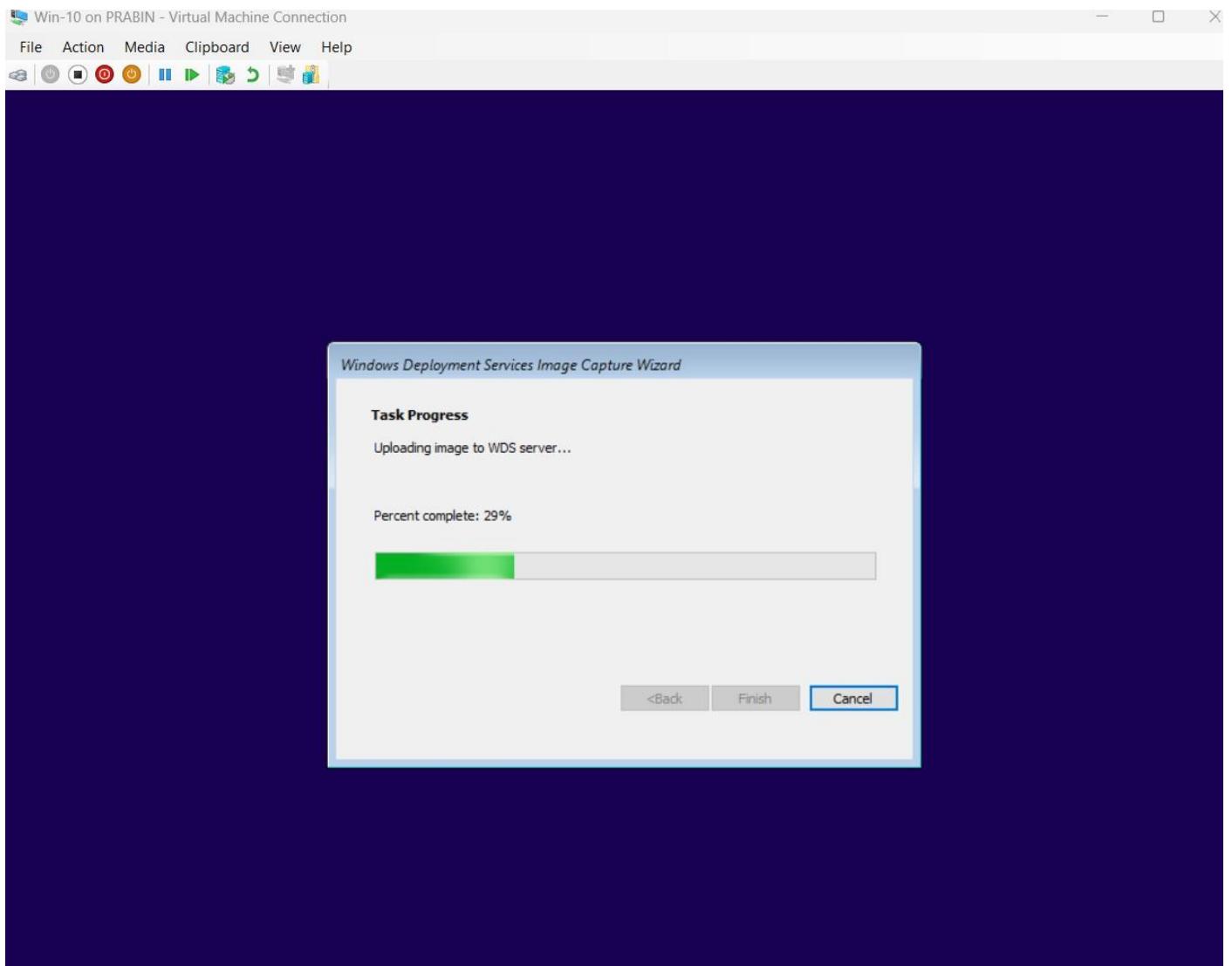


Step 12: Give the name of domain controller in Server Name & Connect using the username & password. Also select the Image Group name by using dropdown option. Click Next

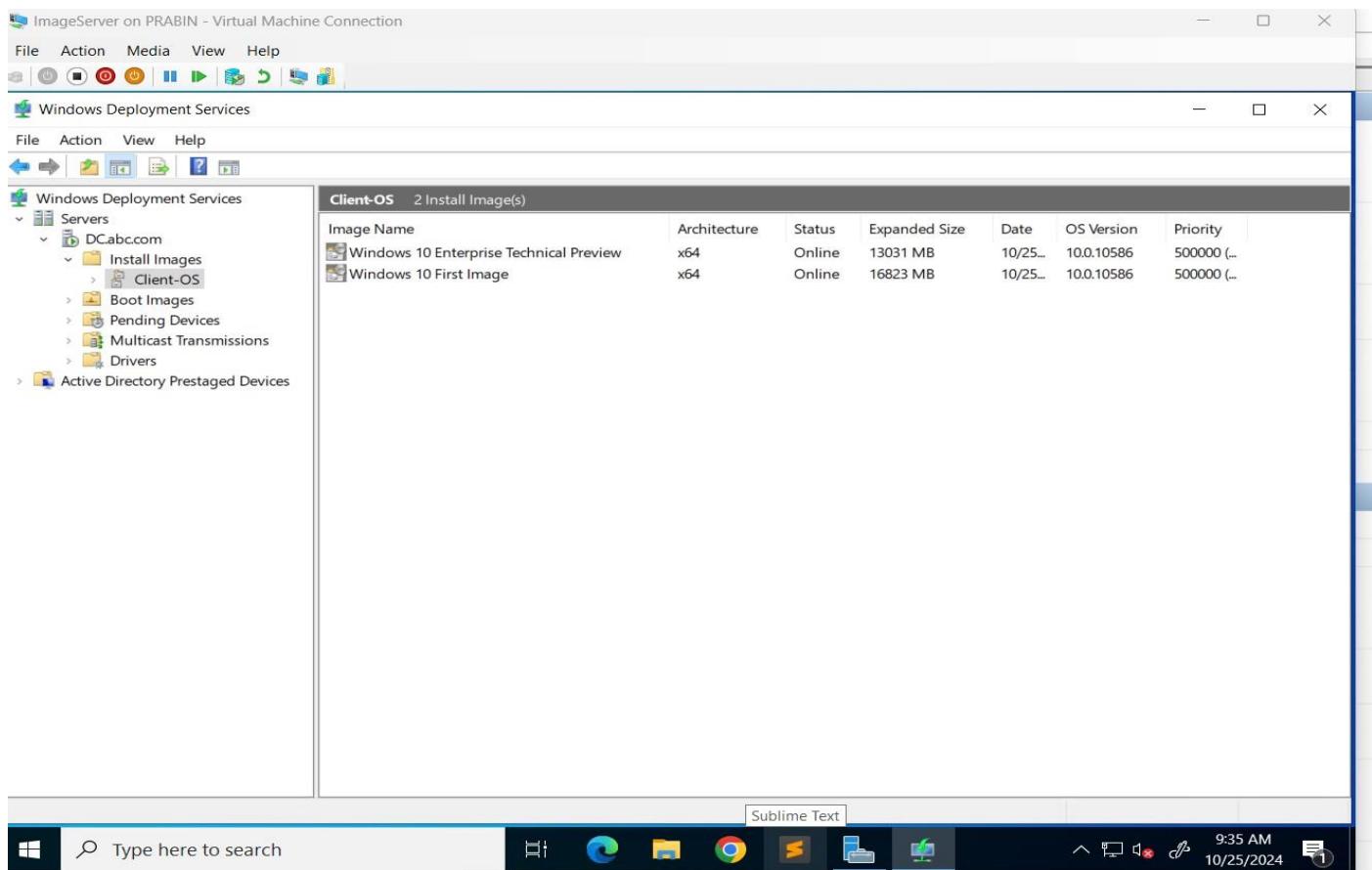


Step 13: It will capture the image & upload it to the WDS

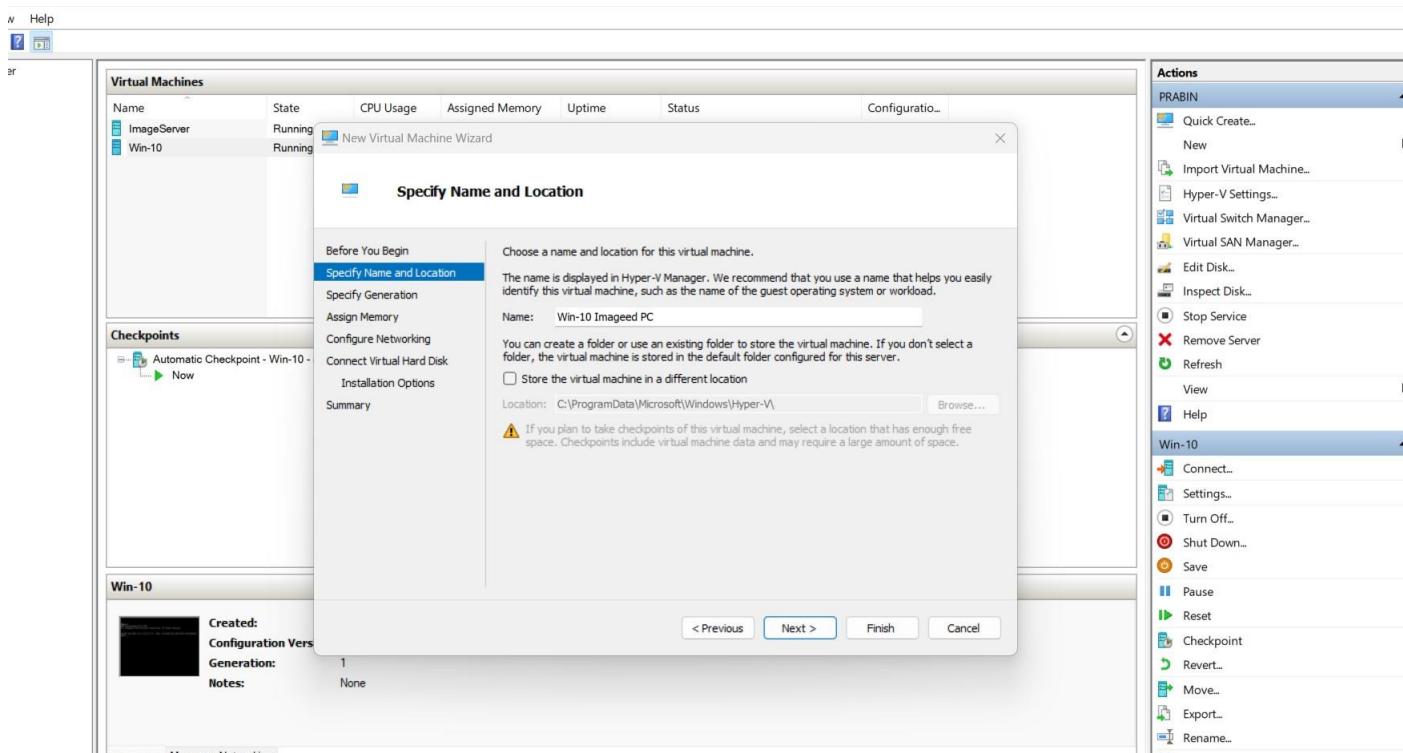




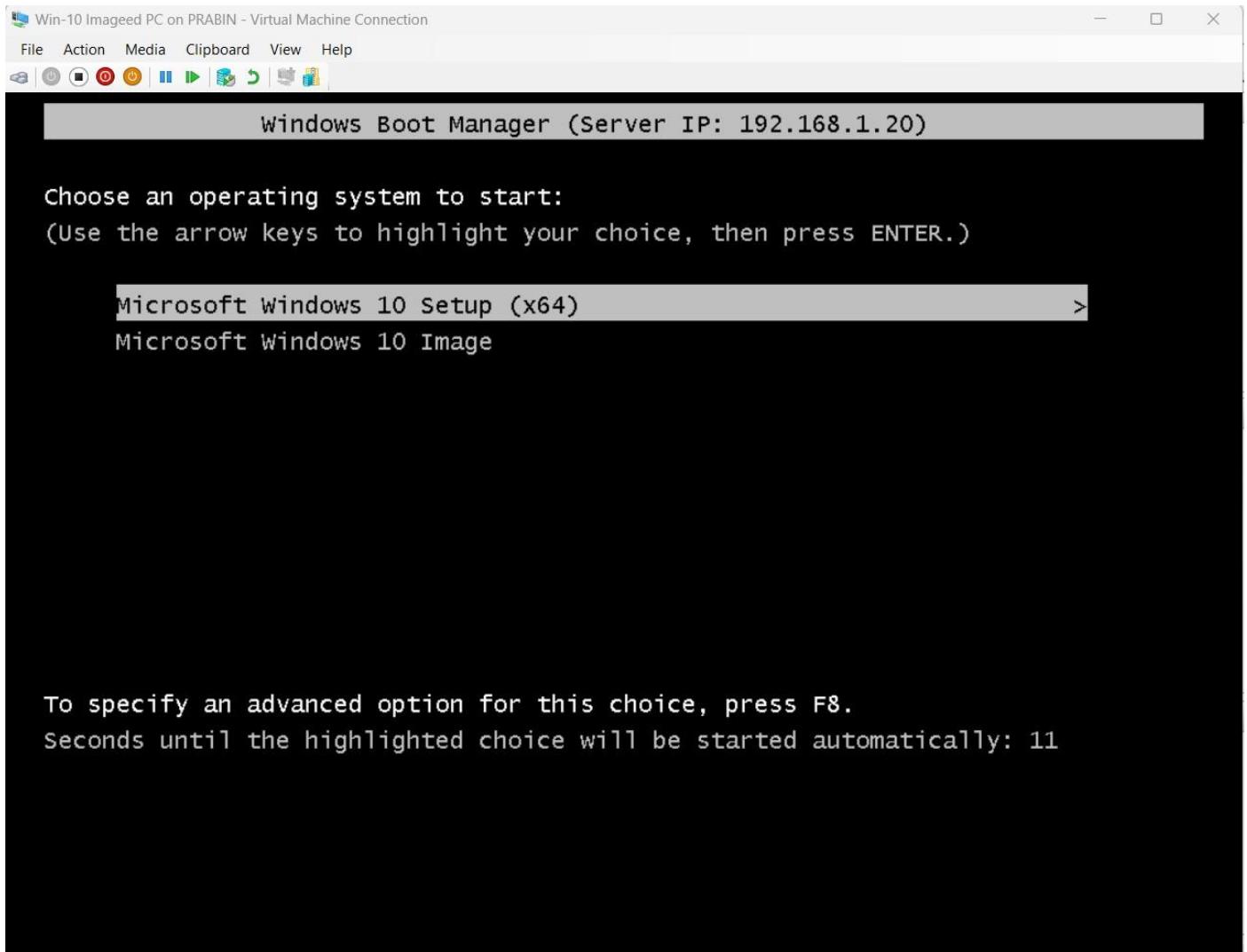
Step 14: We can see the uploaded image in the client OS in WDS



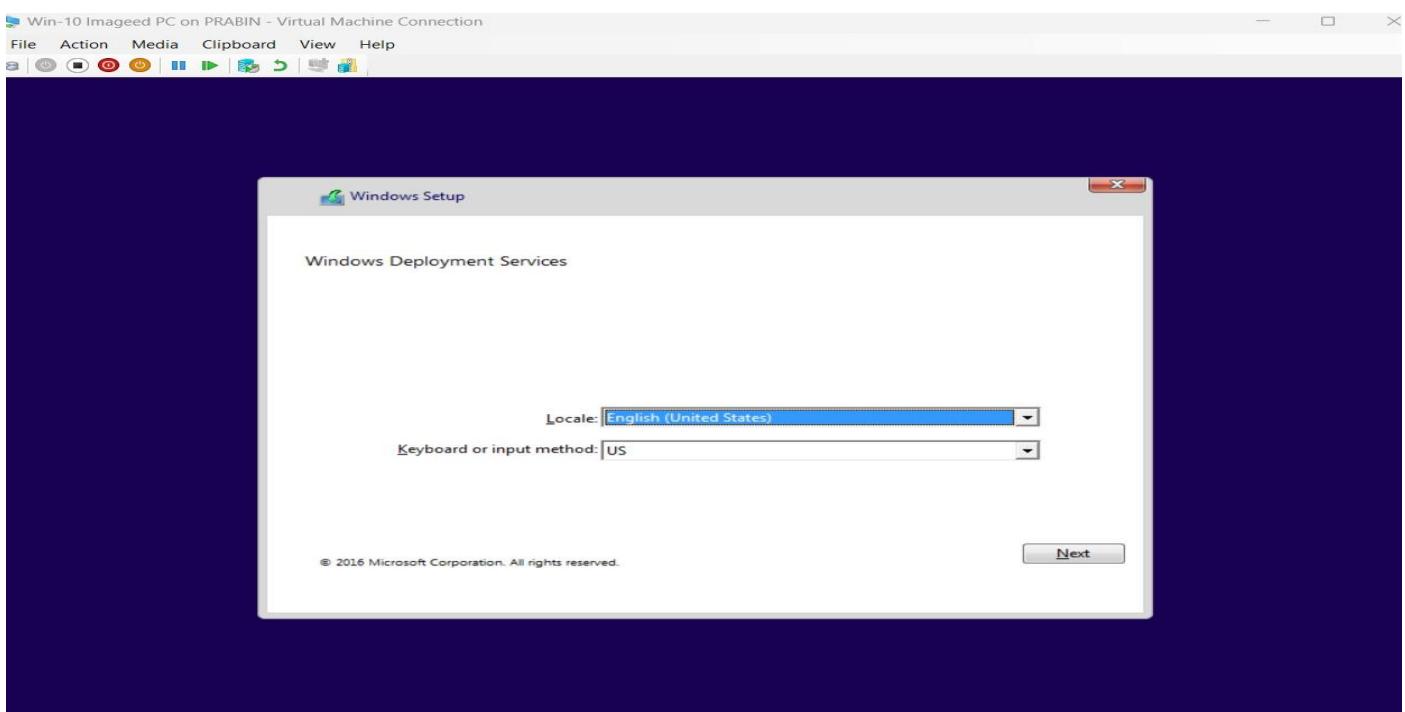
Step 15: Now let's create new PC in Hyper-V again where we will deploy this captured image. Here also in **Installation Options**, select **Install an operating system from a network-based installation server** because we want to boot this VM using the network.



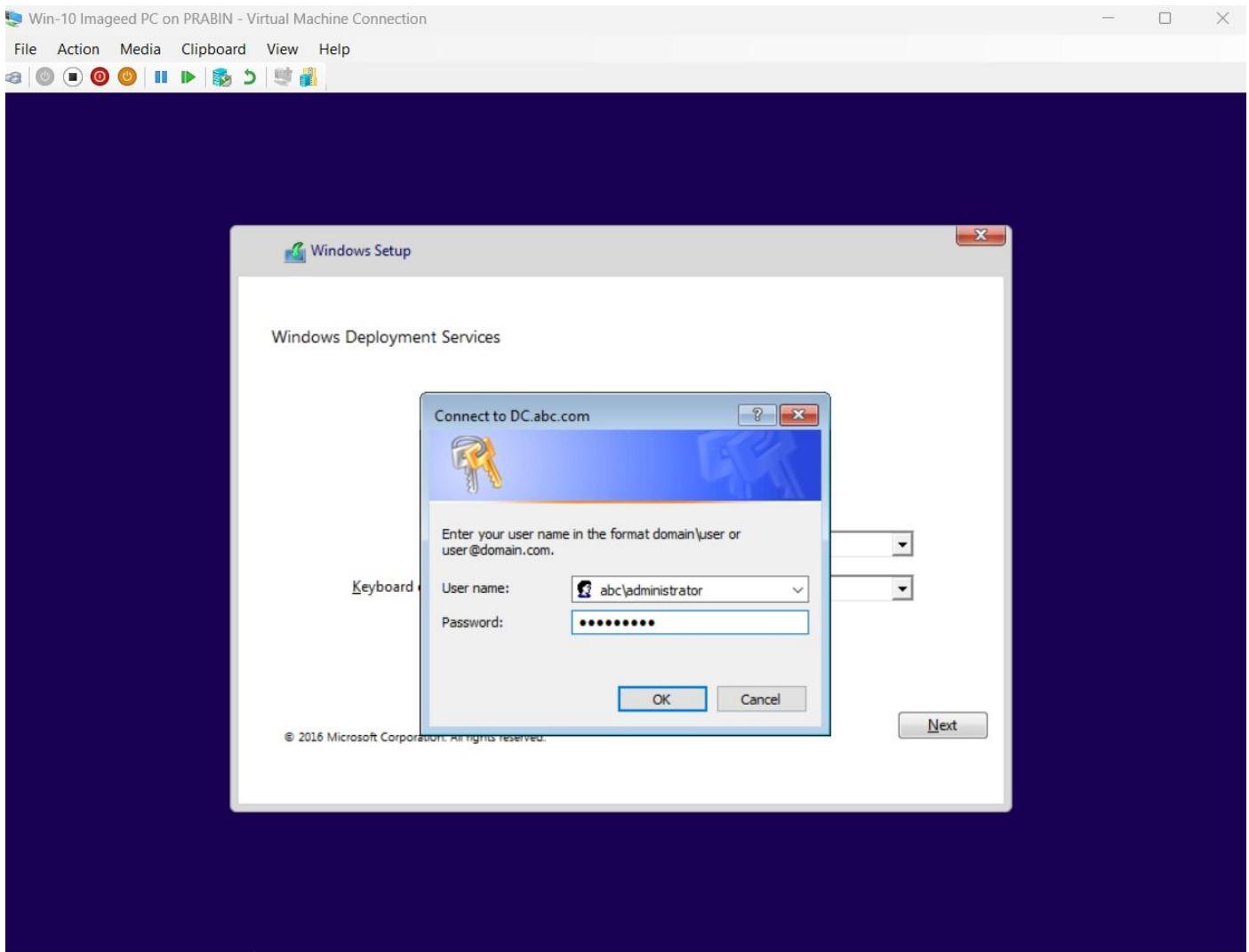
Step 16: Once the new PC is opened press F12 & you will see this screen select the first option. Enter



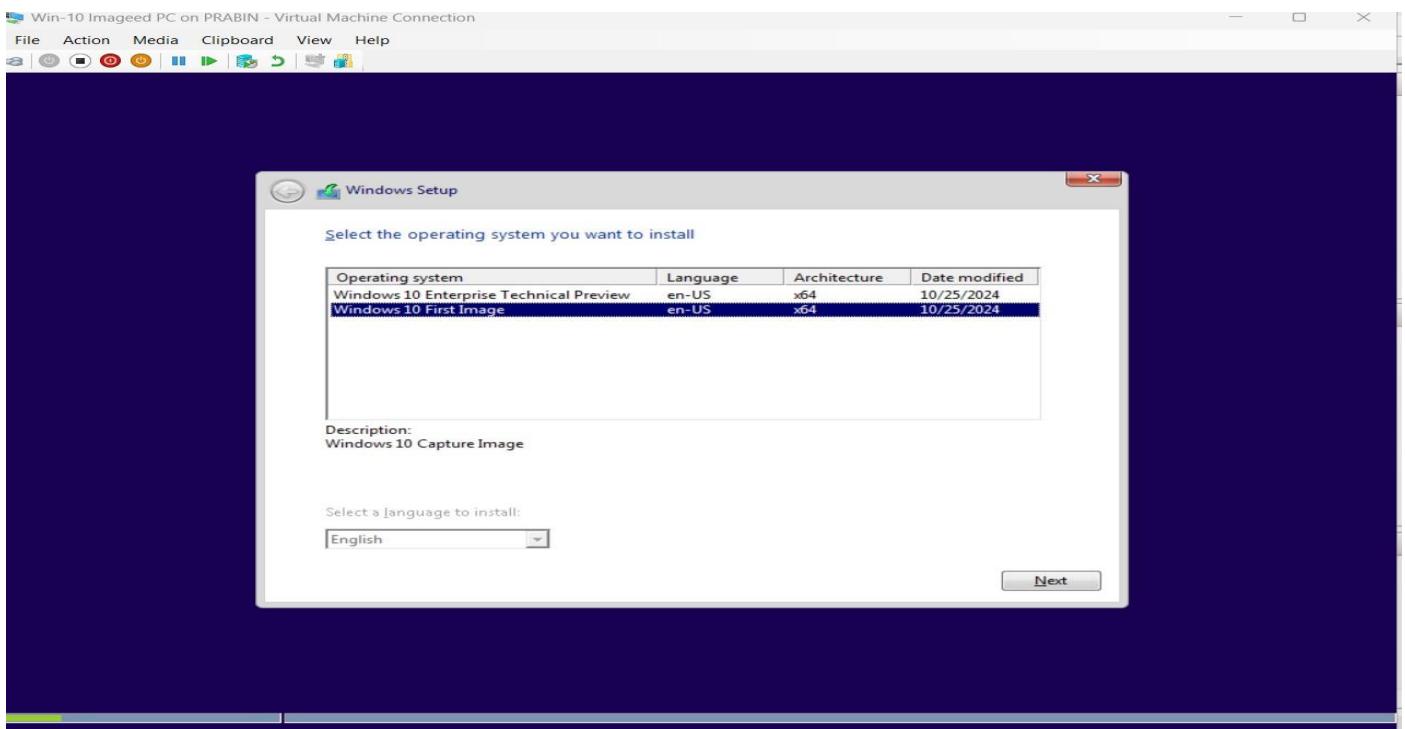
Step 17: After some time, you will see this wizard. Click Next



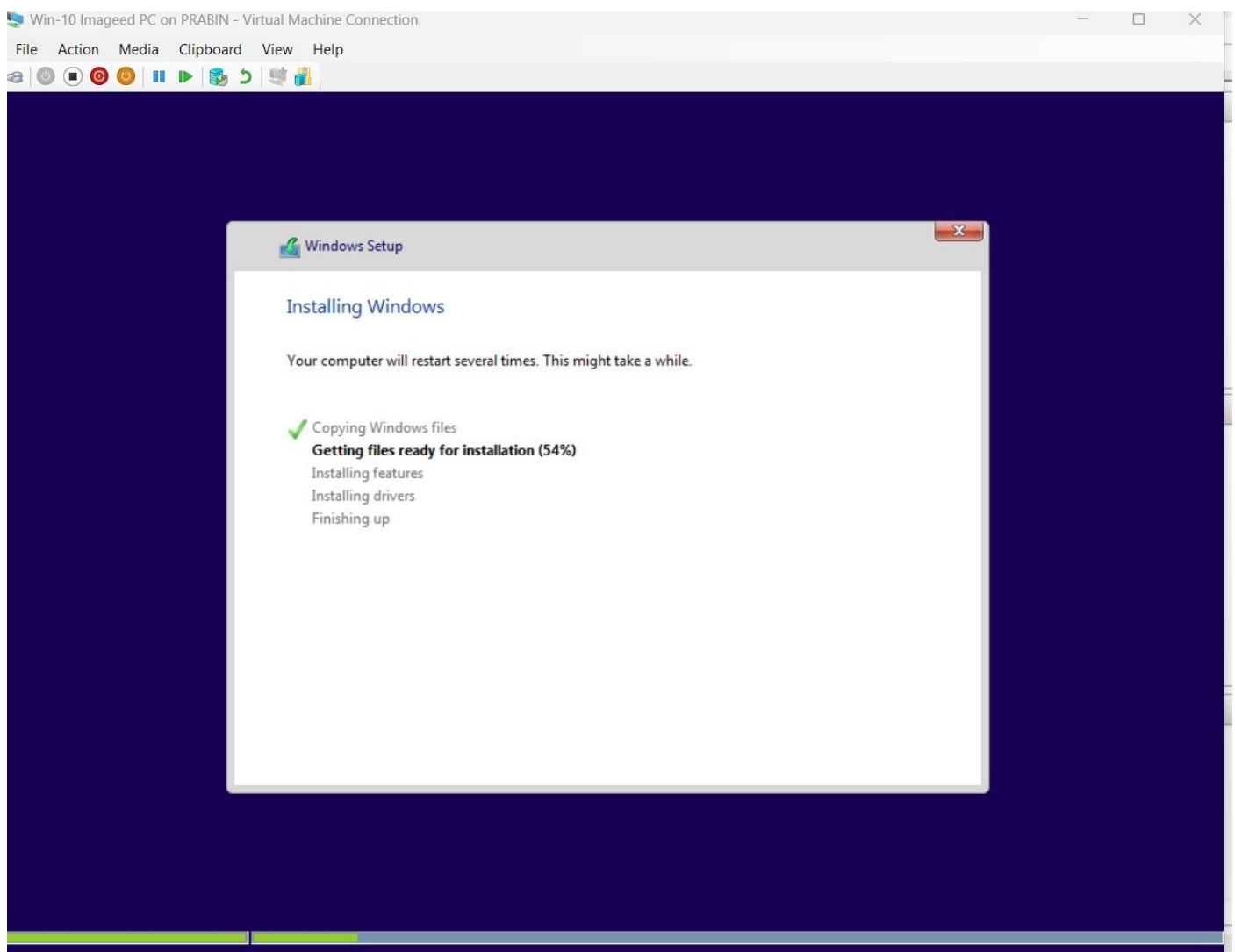
Step 18: Give the AD domain controller username and password. Click Next



Step 19: Now select the “Windows 10 First Image” option. This option will install the custom captured image on the client computer. Click Next.



Step 20: Installation will begin.



Step 21: Once the installation is complete you can see that a new VM has been created with the Windows 10 operating system and custom loaded images.

