Lab Number: 8. WDS

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Section Summary

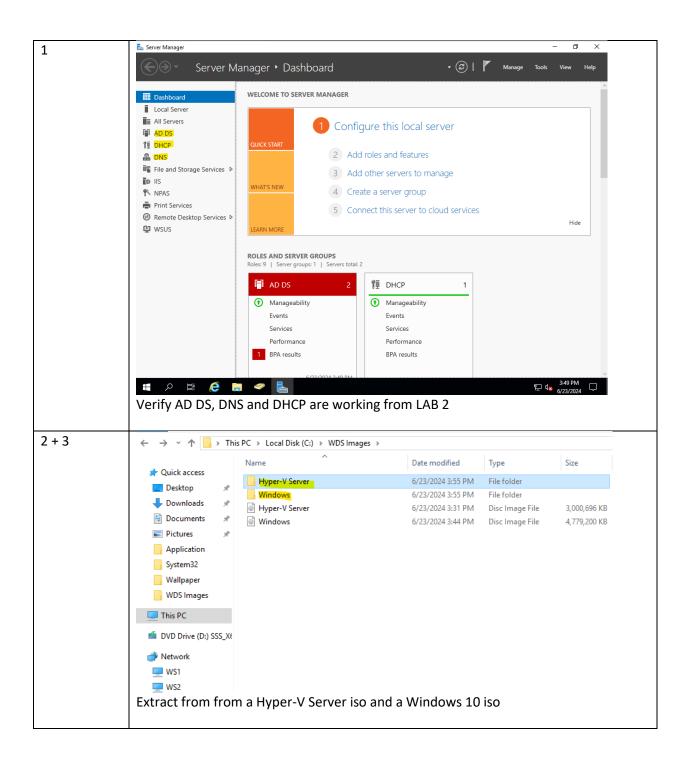
Section 8: Windows Deployment Services (WDS)

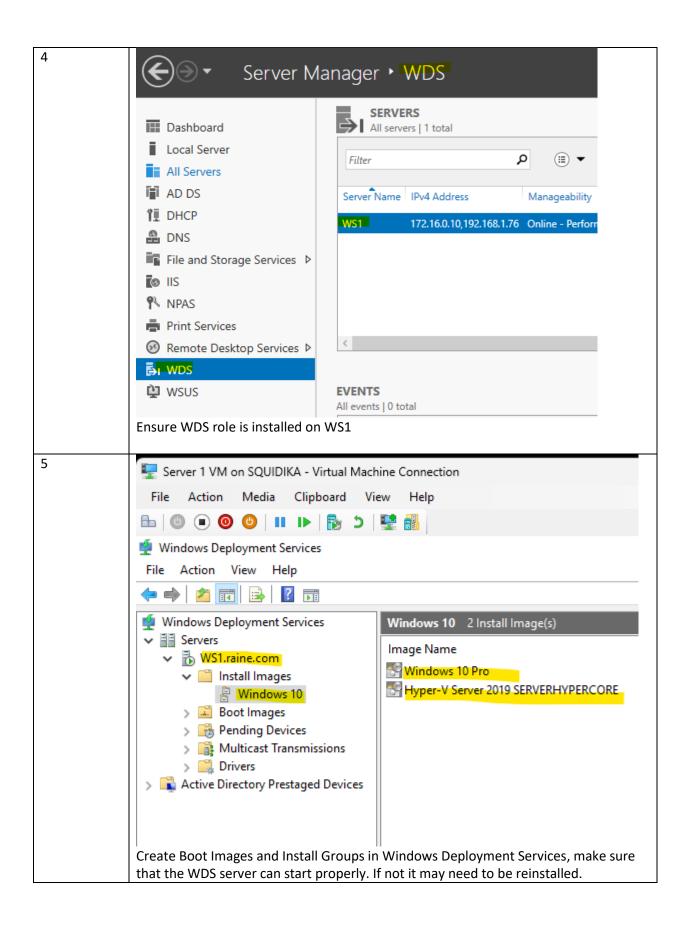
Goals

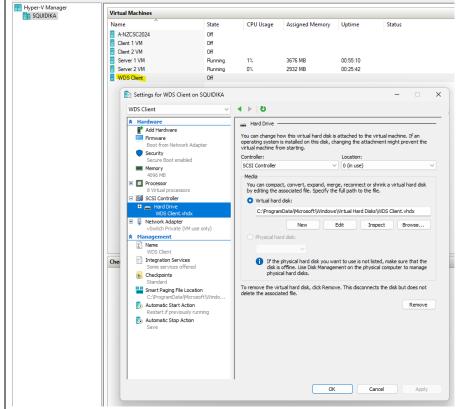
- Deploy an Operating system image to blank VM client using WDS
- Create a customised image using sysprep and WDS capture images

Implementation steps

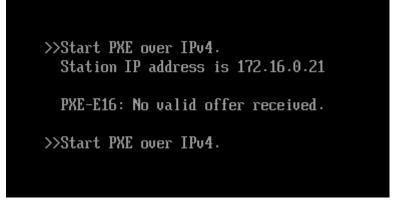
- 1. Ensure the Active Directory Domain Services (Domain controller), DHCP and DNS server roles from section 2 are working properly on WS1
- 2. Extract the 'boot.wim' file and all 'install.wim' files from from a Windows 10 ISO file
- 3. Extract install.wim file from a Hyper-V server core ISO file
- 4. Add the WDS role to WS1
- 5. Use the WDS manager tool to install one boot image and multiple install images into one install group
- 6. Create a new client VM on the network with no OS or iso file connected
 - Ensure it is bridged correctly to the receive information from your physical network
 - It should receive a DHCP address
 - Press f12 to PXE boot from the network
 - Log into to your domain
 - Select the Windows 10 install image i.e. the operating system you wish to install on this new VM node
- 7. Make some changes on the new VM and save changes to Sysprep (this creates a customised image)
 - Create a capture image in WDS Manager boot images folder and save to specific folder
 - Reboot your client -> pxe boot->select capture image to create a customised image
 - Specify to upload to WDS server to shared folder (WDS images created in section 4)
 - Reboot-> PXE boot and select the original boot image to see the customised image







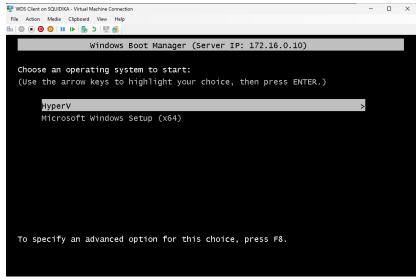
Create a VM without an OS in Hyper-V with connection to the same Virtual Switch as the domain.



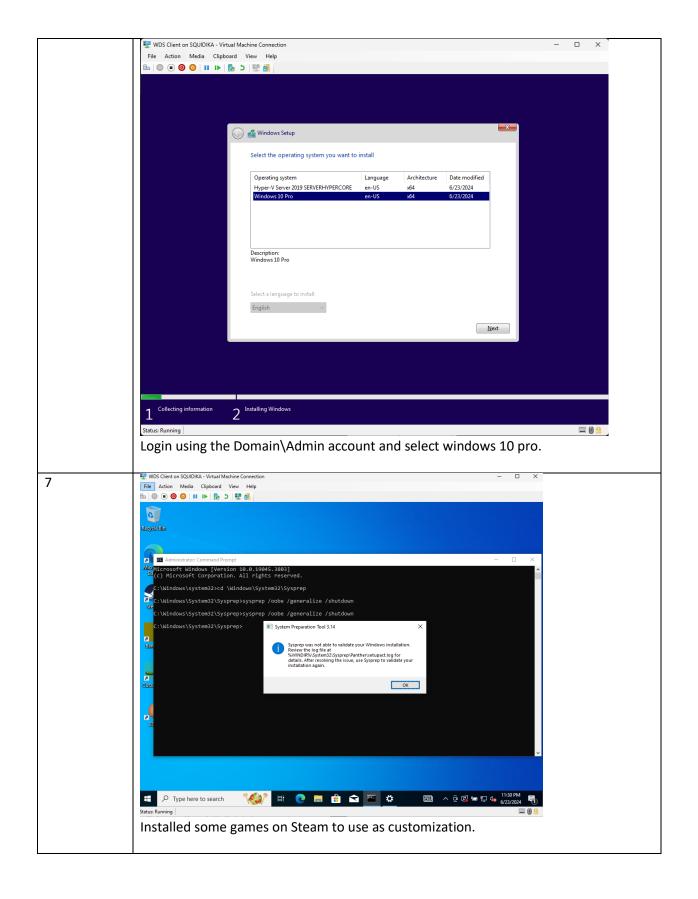
Received this issue, after various retries. It receives addresses from the DHCP but runs into the error PXE-E16 and cannot deploy the image.

To resolve this, I had to uninstall/remove the role WSD from the WS1 server and reinstall it as a standalone server instead of an AD DS connected one.

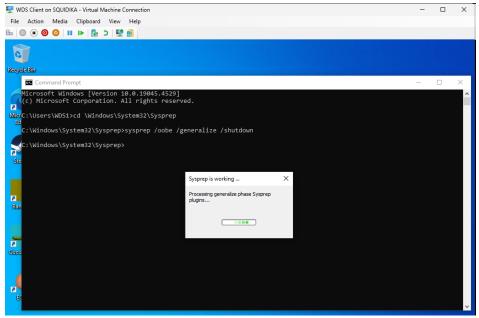




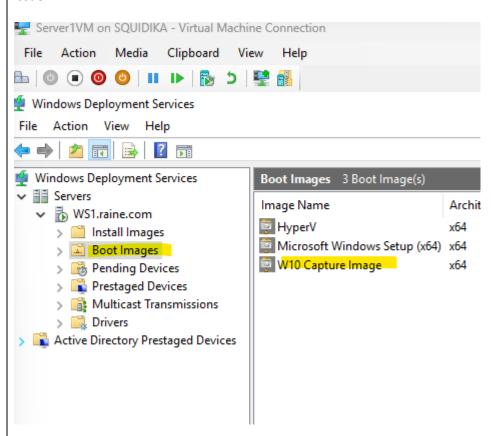
Select Windows Setup

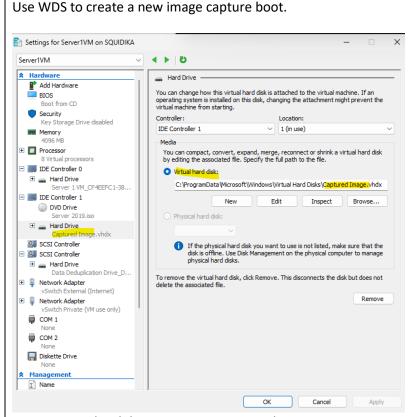


Attempting to make changes on the new VM and using Sysprep causes an issue that the image cannot be validated. Attempting to clear this by running through all windows updates before restarting and trying again.

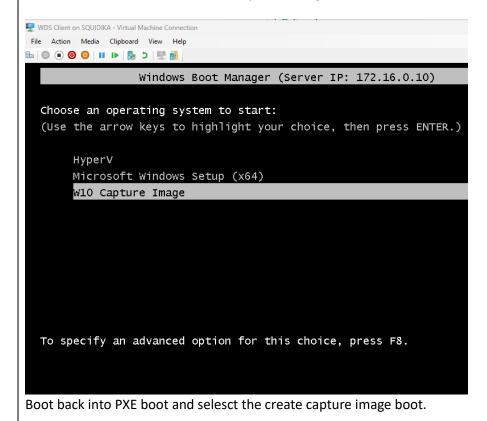


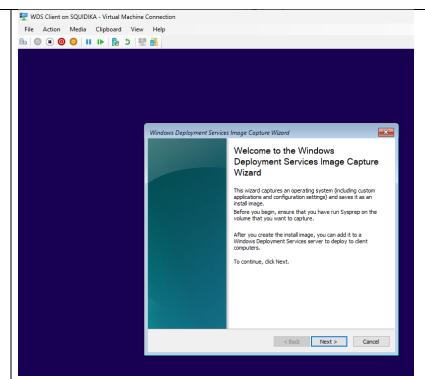
After updates are complete and the system restarts, Sysprep begins with no new issue.



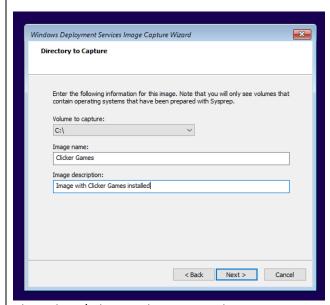


Create a new hard drive to contain captured images





Windows capture wizard begins.



Clone the C:\ drive and customise the name, now a new clicker.wim has been created and we are able to see the customised boot image in the PXE Boot options after installing it through WDS.

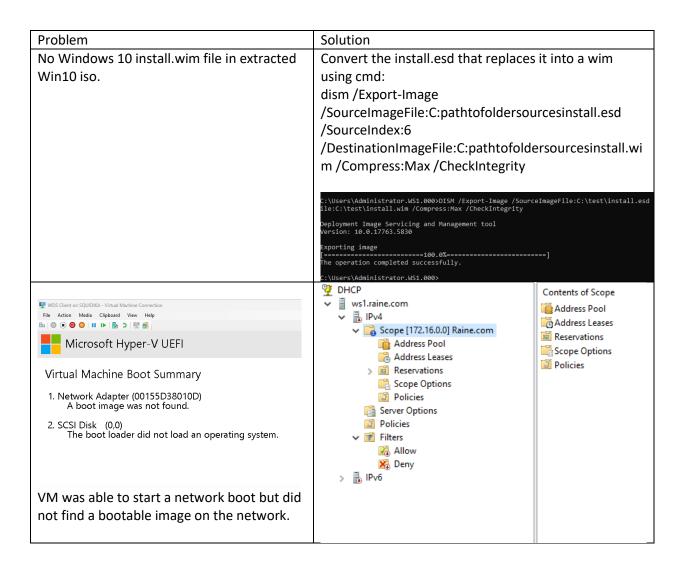
List At the three most useful Internet resources that you used (provided by the tutor)

https://www.youtube.com/watch?v=-TsqAHUWdQU

- http://www.technig.com/how-to-install-and-configure-wds-in-Windows-server-2012-r2/
- https://www.youtube.com/watch?v=8Dyt14tFk0M

List all (at least three) Internet resources that you found and used that were not provided by the tutor)

<u>deployment - How to get install.wim from windows 10 pro installation file - Stack Overflow</u>
<u>How Do I Install Windows 10 From A WIM File? - FAQS Clear</u>
How to create an unattended installation of Windows 10 | Windows Central



Forgot to reconfigure scope for DHCP server, which was deleted after resetting the VM during LAB 3