



Team Task: Server VM

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Task: Diagram

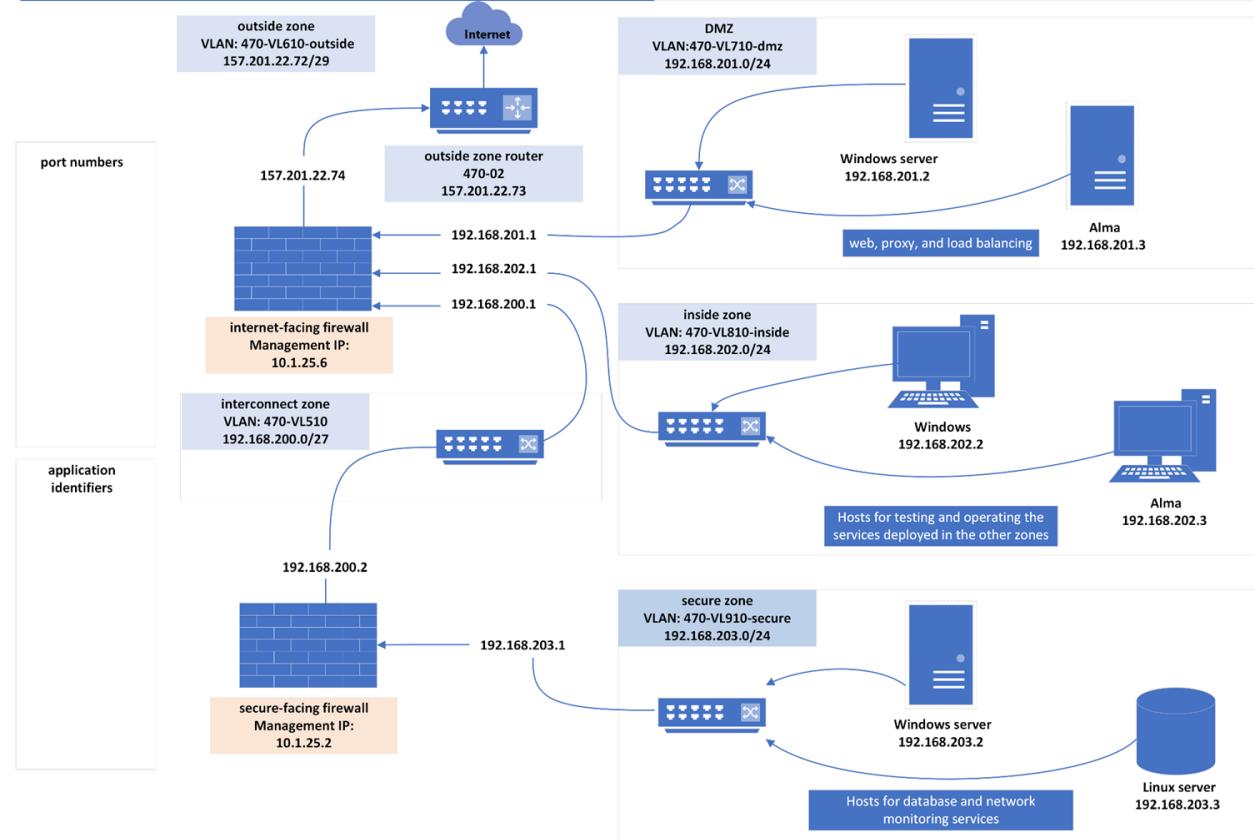


Diagram Outline for Team 10



Zone Information



Secure Zone

Vlan: 470-VL910-secure

192.168.203.0/24

Gateway 192.168.203.1

Windows server 192.168.203.2

Linux server 192.168.203.3



Inside Zone

Vlan: 470-VL910-secure

192.168.202.0/24

Gateway 192.168.202.1

Windows server 192.168.202.2

Alma server 192.168.202.3



DMZ

Vlan: 470-VL910-dmz

192.168.201.0/24

Gateway 192.168.201.1

Windows server 192.168.201.2

Alma server 192.168.201.3

Startup

The following instruction work for any zone, but in our examples we are setting up a Secure zone with the exception of the Alma server which is setup in a different zone. These instructions work for any zone you just need to add in your own info.





How to Setup a Windows Server

Step 1. Startup select

Inside of Vsphere right click the 470-Generic-Template and choose new Vm from this Template

VM Template Details

Actions - 470-Generic-Template

- New VM from This Template...
- Convert to Virtual Machine...
- Clone to Template...
- Clone to Library...
- Move to folder...
- Rename...
- Edit Notes...
- Tags & Custom Attributes
- Add Permission...
- Alarms
- Remove from Inventory
- Delete from Disk

Other (64-bit)
Not running, not installed ⓘ
Not encrypted

Usage
Storage
0 B used

Tags

Recent Tasks Alarms

vSAN

Step 2. Location and name

Choose your teams section inside of class of CIT 470. You must also name the VM as well make sure to agree with team before on a name scheme used for these server like T10-S-WS

The screenshot shows a deployment dialog box for a virtual machine named "470-Generic-Template". The main title bar says "470-Generic-Template - Deploy From Template". Below it, a sub-header says "1 Select a name and folder". The main content area is titled "Select a name and folder" with the sub-instruction "Specify a unique name and target location". A "Virtual machine name:" field contains a placeholder. Below this, a tree view shows the target location: "vctr.c.cit.byui.edu / CIT-Datacenter / CIT470-Security / Section-A1 / CIT470-Team10". The path up to "CIT470-Team10" is highlighted with a dark blue background. At the bottom right of the dialog are "CANCEL" and "NEXT" buttons. The footer of the dialog includes columns for Target, Status, Details, Initiator, Queued For, Start Time, and Complete.

Step 3.Resource Allocation

The next step is select where the VM will pull resources from. Please make sure to select your correct class.

The screenshot shows a deployment wizard titled "470-Generic-Template - Deploy From Template". The current step is "2 Select a compute resource". The sidebar lists steps 1 through 5. Step 2 is highlighted. Below the steps, a compatibility message states "Compatibility: ✓ Compatibility checks succeeded." At the bottom right are buttons for "CANCEL", "BACK", and "NEXT".

470-Generic-Template - Deploy From Template

1 Select a name and folder

2 Select a compute resource

3 Select storage

4 Select clone options

5 Ready to complete

Select a compute resource

Select the destination compute resource for this operation

- 10.11.115.104
- 10.11.175.109
- 10.11.175.110
- 10.11.175.111
- > Azure-Arc
- > CIT-151
- > CIT-225
- > CIT-326
- > CIT-353
- > CIT-470

Compatibility

✓ Compatibility checks succeeded.

CANCEL BACK NEXT

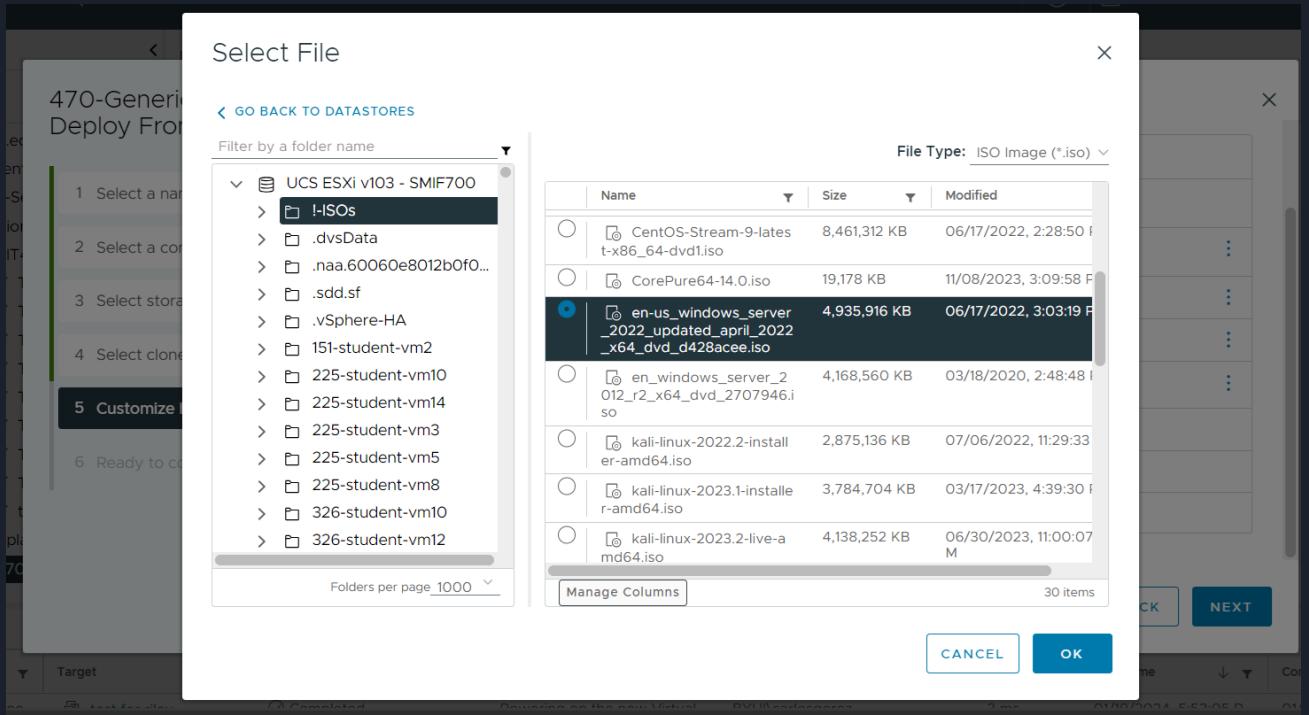
Step 4. Clone options

In this step you need to select Customize this virtual machines hardware so we can ensure it has the proper settings.

The screenshot shows a cloning wizard titled "470-Generic-Template - Deploy From Template". The current step is "4 Select clone options", which is highlighted in a dark bar at the top of the list. The steps are numbered 1 through 6: 1. Select a name and folder, 2. Select a compute resource, 3. Select storage, 4. Select clone options (current step), 5. Customize hardware, and 6. Ready to complete. To the right of the steps is a panel titled "Select clone options" with the sub-header "Select further clone options". It contains three checkboxes: "Customize the operating system" (unchecked), "Customize this virtual machine's hardware" (checked), and "Power on virtual machine after creation" (unchecked). At the bottom right of the panel are buttons for "CANCEL", "BACK", and "NEXT".

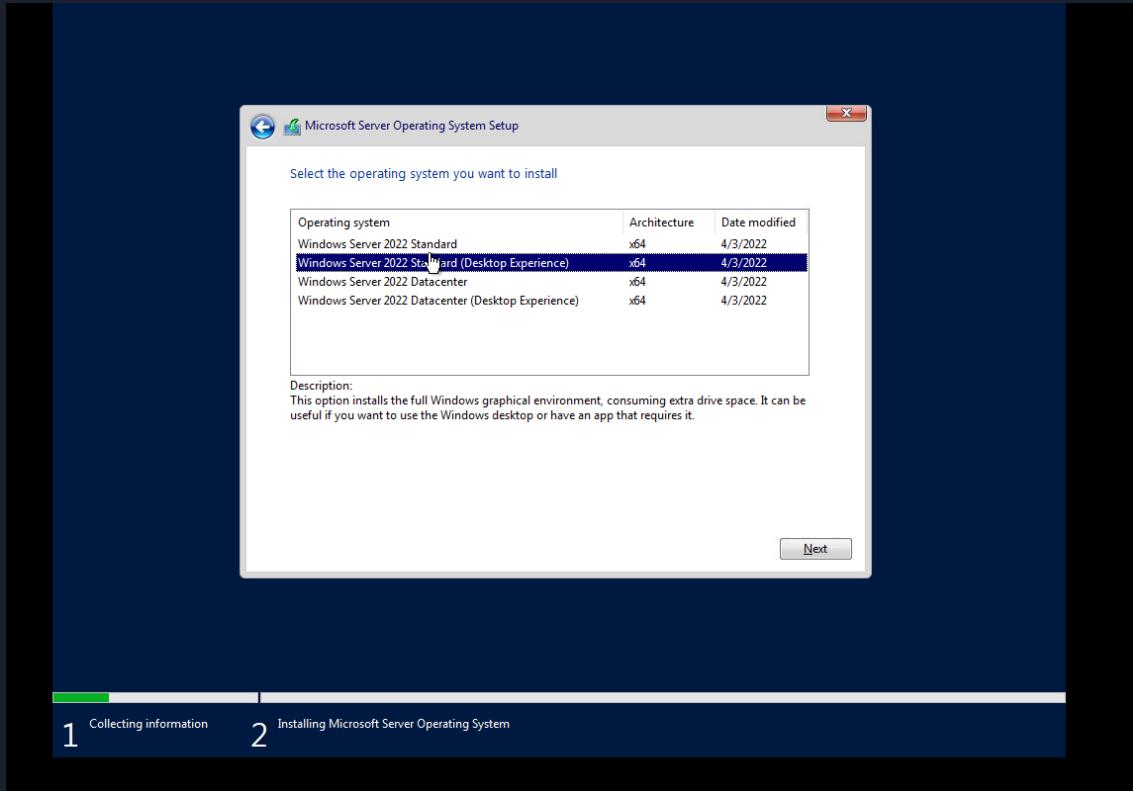
Step 5. ISO selection and other settings

After allowing the VM to be customized you will be shown screen with many different options . There are only three sections you need to worry about the SCSI controller needs to selected as "LSI Logic SAS." the network adapter needs to match the correct zone and finally ISO for your machine , there many options you can browse inside the CD/DvD media but in this example we select the 2022 windows server.



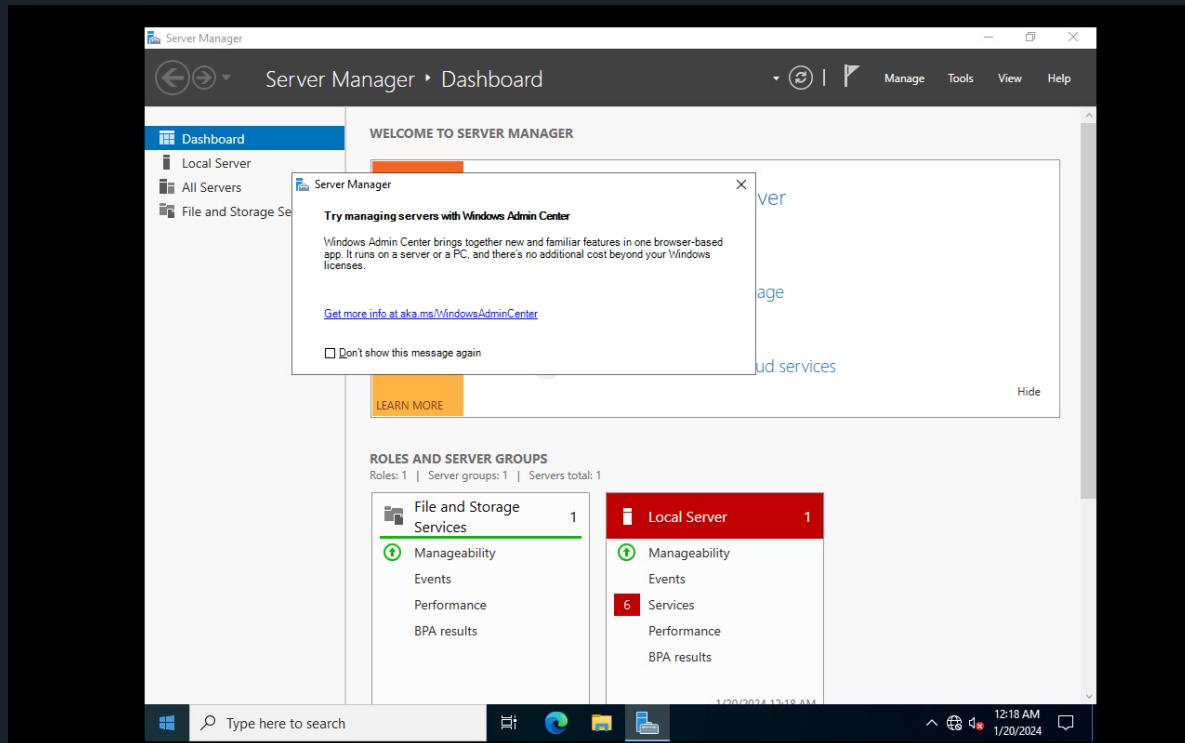
Step 6. Installing the OS!

Power on the newly made VM and start the install process. Follow the prompts until you get to the window asking for a product key, select I don't have a product key. This will take you too system setup window. You most choose which version of windows server 2022 you are going to install, select the standard desktop experience.



Step 7. Finish install

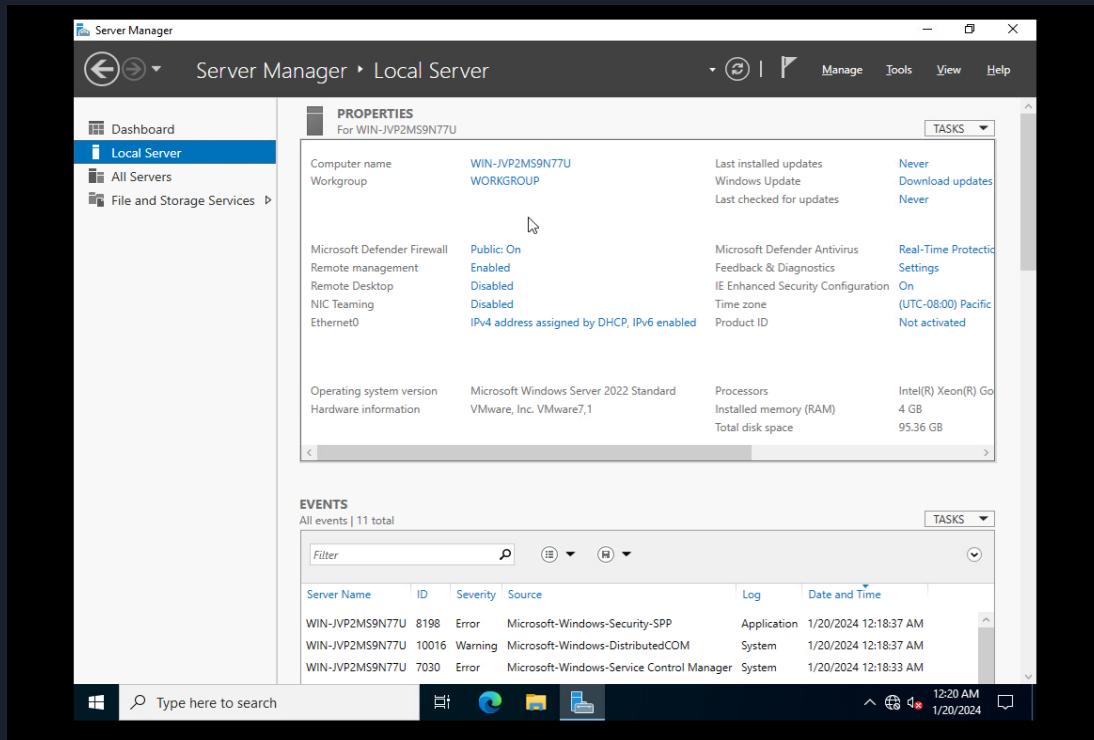
After choosing the version of windows server 2022 you need to accept the terms and condition and select custom install for how you wish to install this OSI. After all this you will finally be able to make an admin account and get into the OSI once you do you should locate the server manager.



Step 8A. Server Manager

Select Local Server
and disable and
enable these setting.

Allow Remote
connections but turn
off network level
authentication. Next
disable IE enhanced
security



Step 8B.

Server Manager ▸ Local Server

System Properties

Computer Name | Hardware | Advanced | Remote

Remote Assistance

Allow Remote Assistance connections to this computer

Advanced...

Remote Desktop

Choose an option, and then specify who can connect.

Don't allow remote connections to this computer

Allow remote connections to this computer

Allow connections only from computers running Remote Desktop with Network Level Authentication (recommended)

Help me choose Select Users...

OK Cancel Apply

Last installed updates
Windows Update
Last checked for updates
Never
Download updates
Never

Microsoft Defender Antivirus
Feedback & Diagnostics
IE Enhanced Security Configuration
Real-Time Protection Settings
On
(UTC-08:00) Pacific
Not activated

Product ID

Processor
Installed memory (RAM)
Total disk space
Intel(R) Xeon(R)
4 GB
95.36 GB

Windows Server 2022 Standard
ware7,1

Log Date and Time

Server Name ID Severity Source Application System System

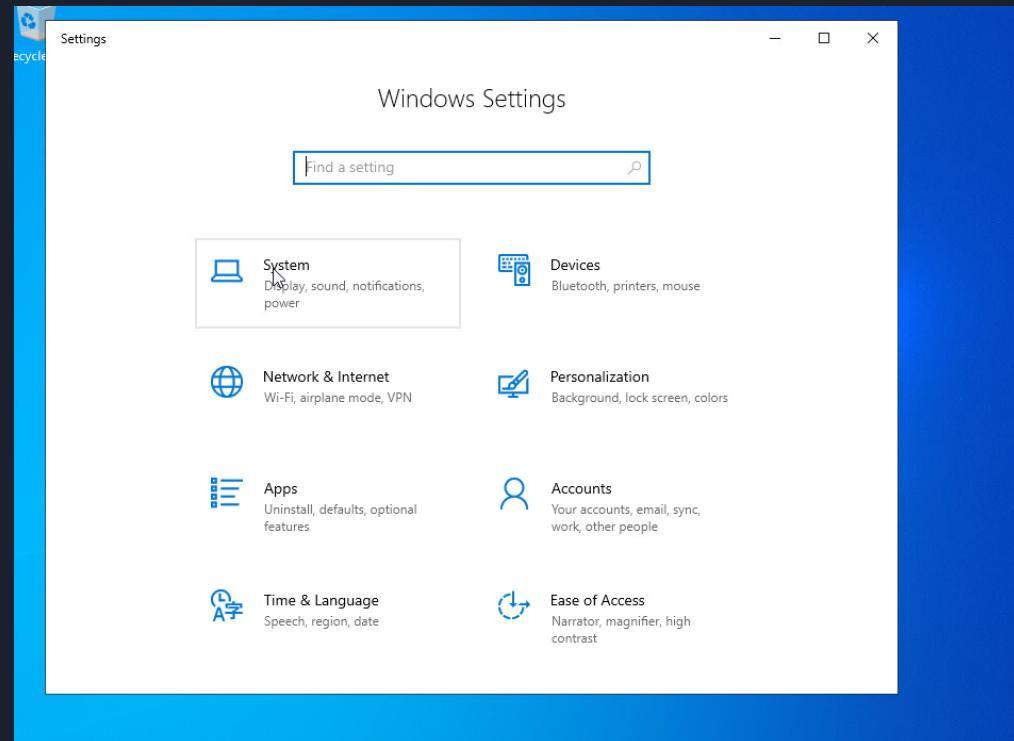
Server Name	ID	Severity	Source	Log	Date and Time
WIN-JVP2MS9N77U	8198	Error	Microsoft-Windows-Security-SPP	Application	1/20/2024 12:18:37 AM
WIN-JVP2MS9N77U	10016	Warning	Microsoft-Windows-DistributedCOM	System	1/20/2024 12:18:37 AM
WIN-JVP2MS9N77U	7030	Error	Microsoft-Windows-Service Control Manager	System	1/20/2024 12:18:33 AM

Type here to search

12:21 AM 1/20/2024

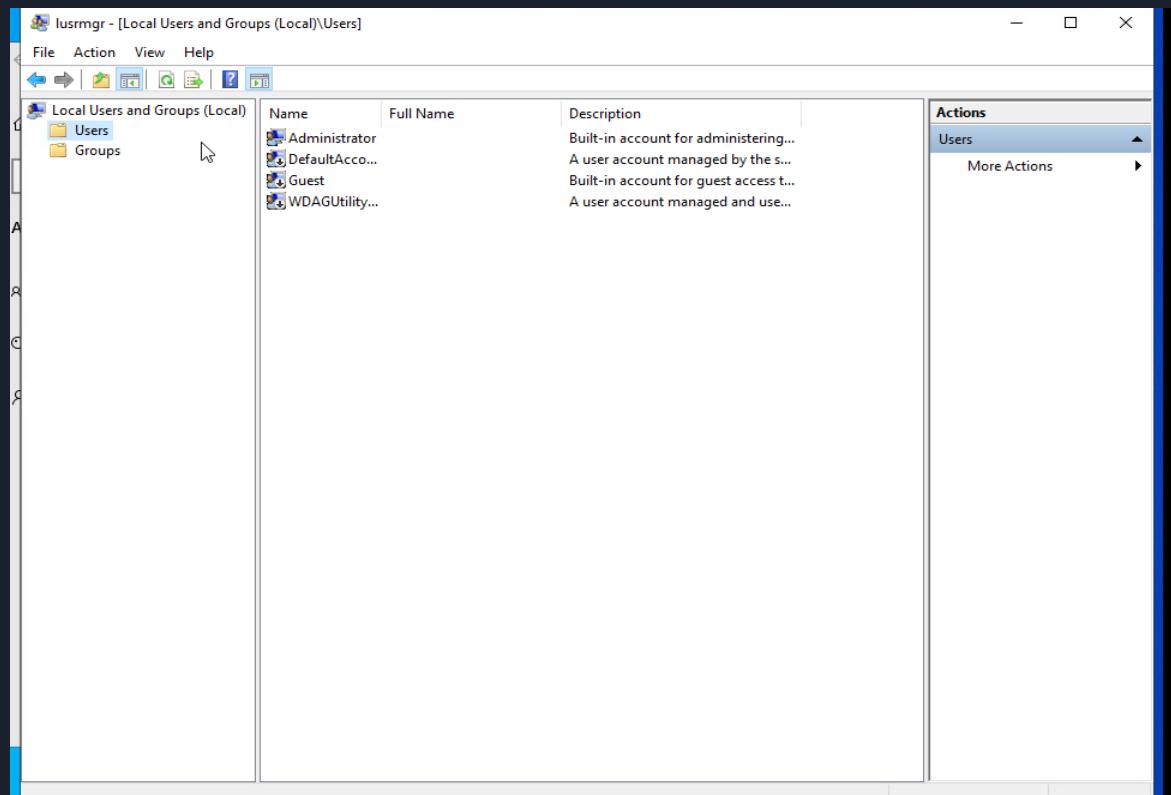
Step 9. Windows setting

The next step we going to change a few setting inside of windows setting. These changes will be made in System , Network & Internet, and Accounts. The first change will be in Accounts.



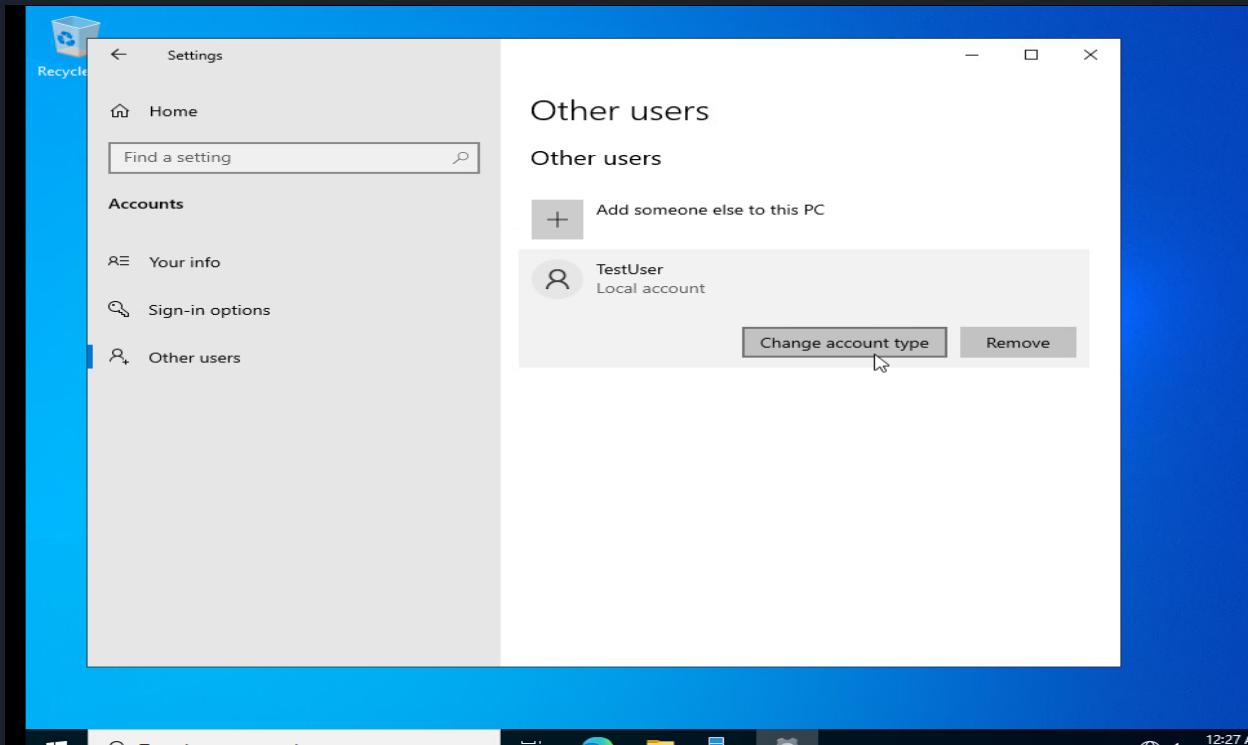
Step 10. Adding new users

Select Accounts and then other users. Inside of that window will be an option to add a new user. It will take you to new window with several options. In this window you need click on the actions tab and select create new user. Take this time to make a user for everyone in your group and set a password for the account.



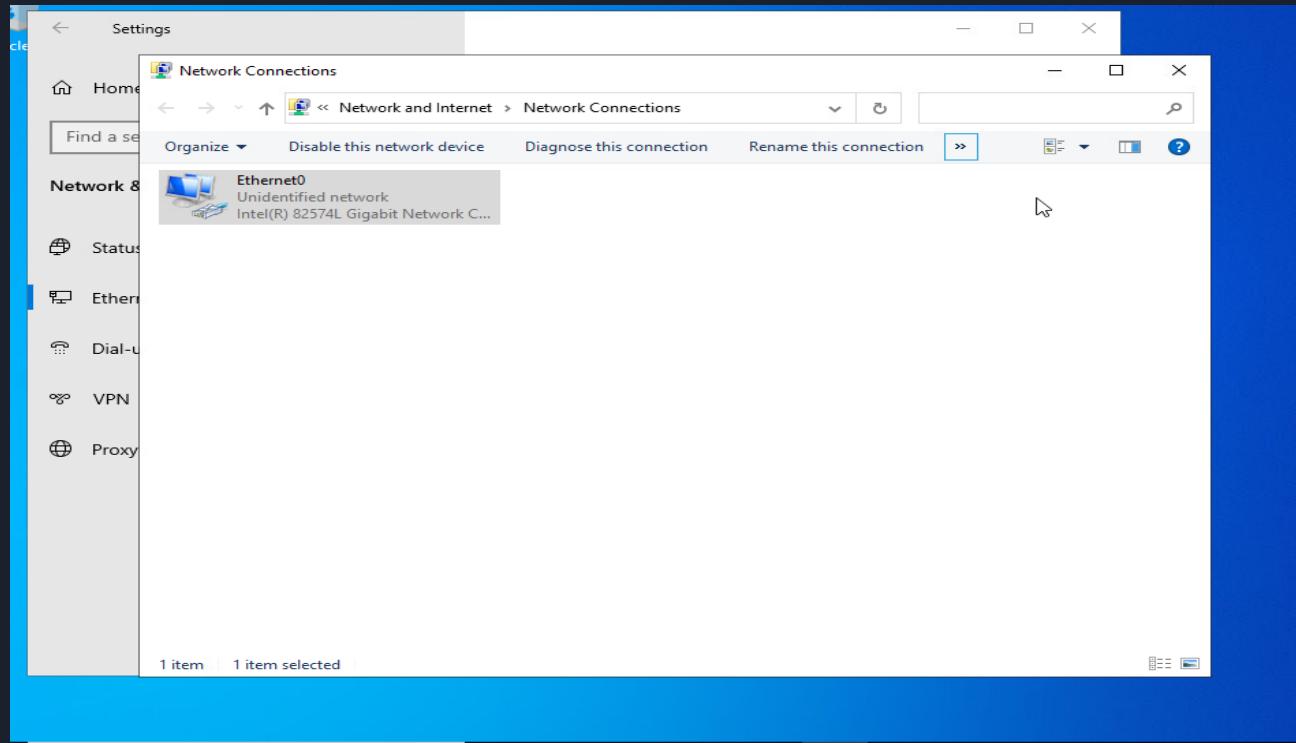
Step 11. Change Account Type

Back in the other windows in the accounts section you need to switch all the new user account types to Administrator so that you and your team can work on this machine as admins.



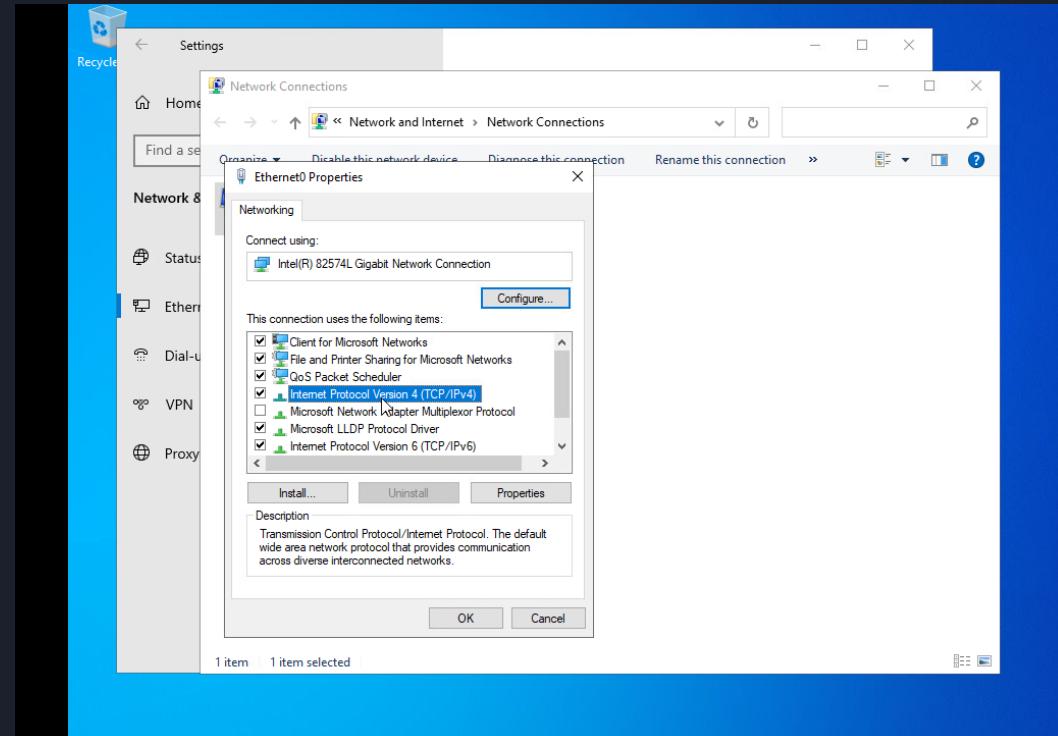
Step 12A. Ethernet and Internet settings

Now you need to back to window from step 9 and select the Ethernet and Internet option in there will be a section called Ethernet, click on it and look for the option highlighted in called Change Adapter options . It will take you too this window.



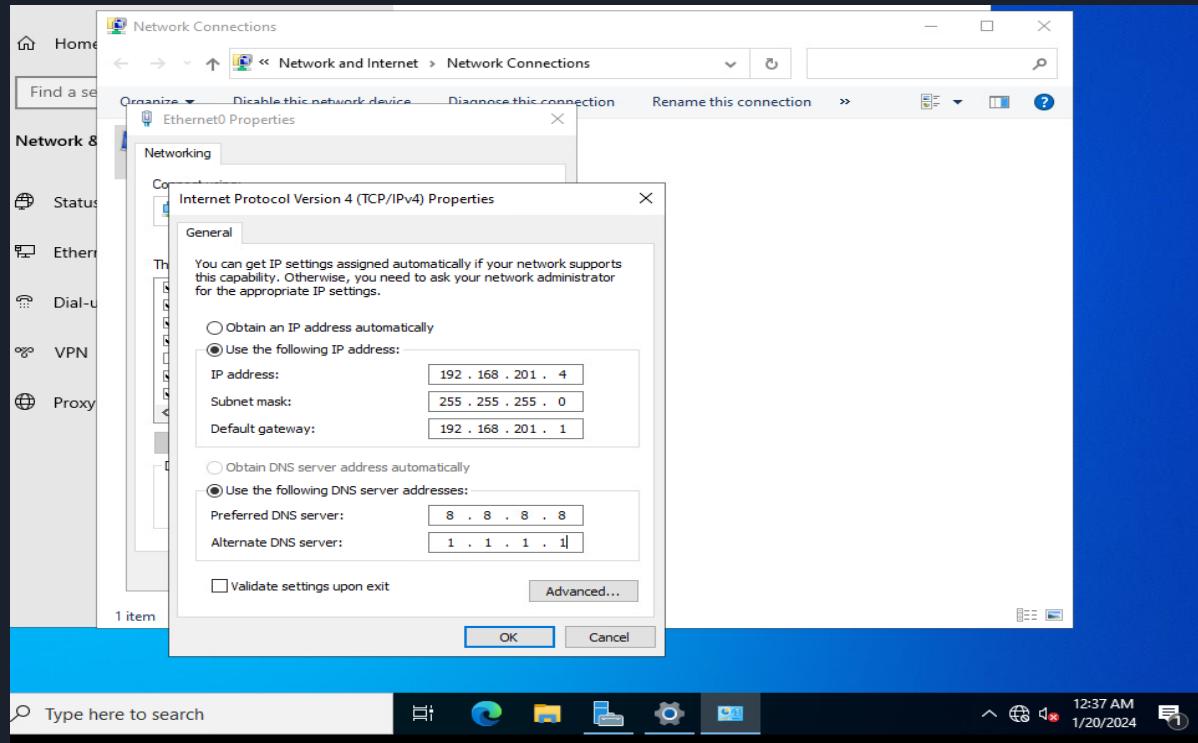
Step 12B. Changing Ipv4

In this window you need to click on the double arrows next to rename this connections. It will open a smaller window, in this smaller window you need to select Ipv4 and click on properties



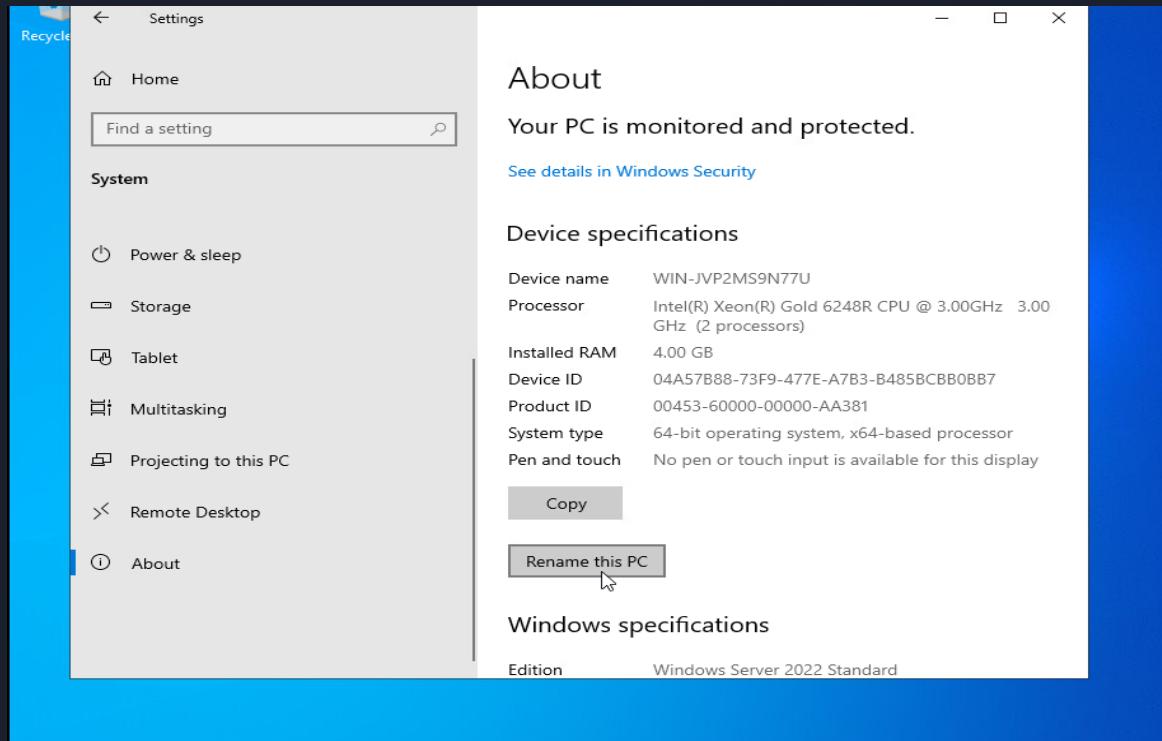
Step 12C. Setting Ip Address.

If you have follow the instructions you will see a new window that will give you the option to set this servers address. Fill out the Ip address that your team agreed upon before starting this assignment. Also fill out the subnet and default gateway from your teams diagram. You don't need to fill out the DNS right now but can choose to if you feel like it.



Step 13. Rename the device

Going back to step 9 click on the system icon and scroll down until you see the about page. Inside of here will be an option to rename the PC, you will need to rename this device to match what you called the VM , this will cause the VM to restart. This is last step you need to do for now but later you will need to ping this device.



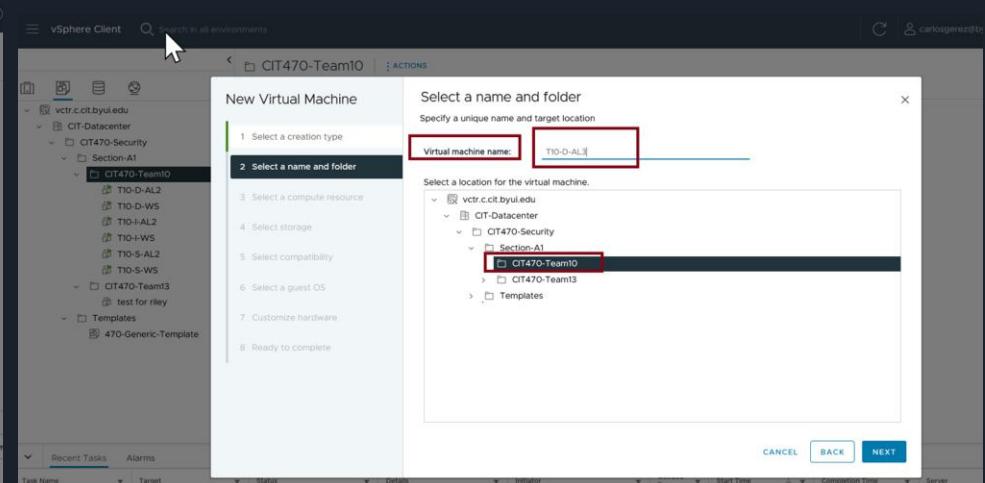
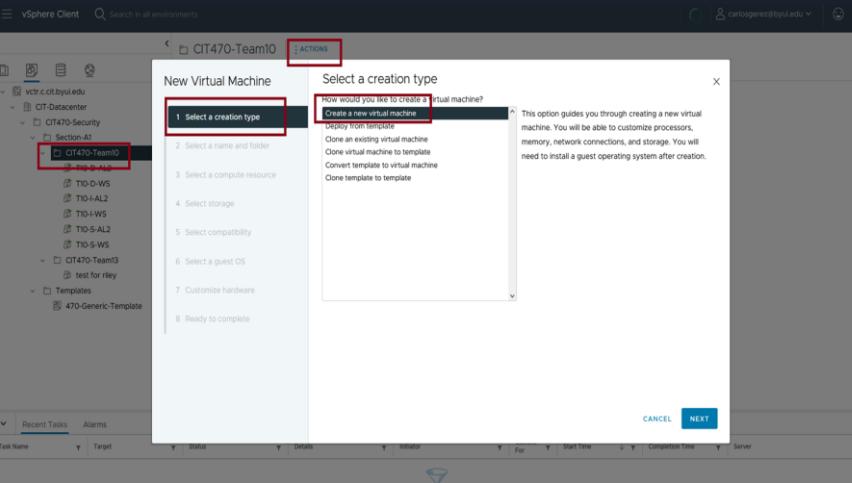


How to Setup an Alma Server

Step 1.

Click on Actions and select Create a new virtual machine

Give the new machine a name according to the teams chosen naming schematic. In this case it is T10-D-AL3



Step 2.

Select CIT-470 as the compute resource then select CIT as the storage area

The screenshot shows the 'New Virtual Machine' wizard in progress, specifically Step 2: Select a compute resource and Step 4: Select storage.

Left Panel (Compute Resource Selection):

- Step 3: Select a compute resource is highlighted.
- Compute resources listed:
 - 10.11.175.109
 - 10.11.175.110
 - 10.11.175.111
 - CIT-470 (selected)
 - CIT-151
 - CIT-225
 - CIT-326
 - CIT-352
- Compatibility section: Compatibility checks succeeded.

Right Panel (Storage Selection):

- Step 4: Select storage is highlighted.
- Storage area selection table:

Name	Storage Compatibility	Capacity	Provisioned	Free
CIT	--	64 TB	40.07 TB	23.92 TB
- Compatibility section: Compatibility checks succeeded.
- Buttons at the bottom: CANCEL, BACK, NEXT.

Step 3.

Select compatibility to ESXi 7.0 U2 and later

Select Linux as the guest OS Family and RedHat Enterprise Linux 8 (64-bit) as the Guest OS Version

New Virtual Machine

5 Select compatibility

Select compatibility for this virtual machine depending on the hosts in your environment

The host or cluster supports more than one VMware virtual machine version. Select a compatibility for the virtual machine.

Compatible with: ESXi 7.0 U2 and later

Virtual machines using hardware version 19 are compatible with ESXi 7.0 U2 and later. Some virtual machine hardware features are unavailable with this option.

1 Select a creation type
2 Select a name and folder
3 Select a compute resource
4 Select storage
5 Select compatibility
6 Select a guest OS
7 Customize hardware
8 Ready to complete

CANCEL BACK NEXT

New Virtual Machine

6 Select a guest OS

Select a guest OS

Choose the guest OS that will be installed on the virtual machine

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Guest OS Family: Linux
Guest OS Version: Red Hat Enterprise Linux 8 (64-bit)

Compatibility: ESXi 7.0 U2 and later (VM version 19)

1 Select a creation type
2 Select a name and folder
3 Select a compute resource
4 Select storage
5 Select compatibility
6 Select a guest OS
7 Customize hardware
8 Ready to complete

CANCEL BACK NEXT

Step 4.

Customize hardware settings and check the Connect At Power On box

Select NEXT and then FINISH

New Virtual Machine

- 1 Select a creation type
- 2 Select a name and folder
- 3 Select a compute resource
- 4 Select storage
- 5 Select compatibility
- 6 Select a guest OS
- 7 **Customize hardware**
- 8 Ready to complete

Customize hardware

Virtual Hardware | VM Settings | Advanced Features

ADD NEW DEVICE ▾

> CPU *	2
> Memory *	4 GB
> New Hard disk *	96 GB
> New SCSI controller *	LSI Logic Parallel
> New Network *	470-VL710-dmz
> New CD/DVD Drive *	Datastore ISO File
> Video card *	Specify custom settings
> New SATA Controller *	New SATA Controller
> Security Devices *	Not Configured
> Other	Additional Hardware

Compatibility: ESXi 7.0 U2 and later (VM version 19)

CANCEL BACK NEXT

T10-D-AL3

Summary Monitor Configure Permissions Networks Snapshots ACTIONS

Guest OS: Powered Off

Virtual Machine Details

Power Status: Powered Off
Guest OS: Red Hat Enterprise Linux 8 (64-bit)
VMware Tools: Not running, not installed
DNS Name:
IP Addresses:
Encryption: Not encrypted

ACTIONS

LAUNCH REMOTE CONSOLE LAUNCH WEB CONSOLE

Step 5.

Under Summary open the Actions menu and select Edit Settings

Select the VM options Tab

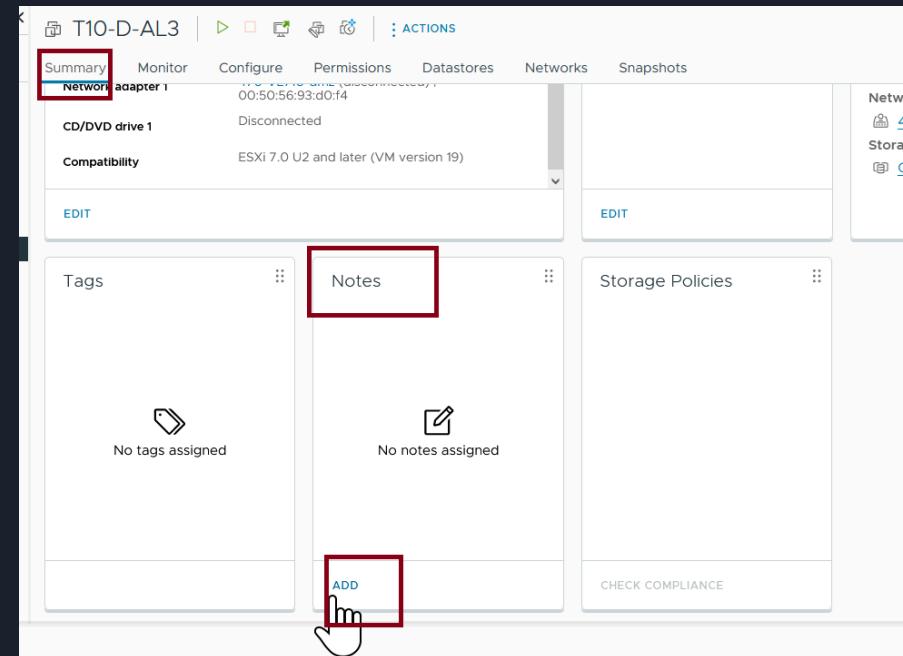
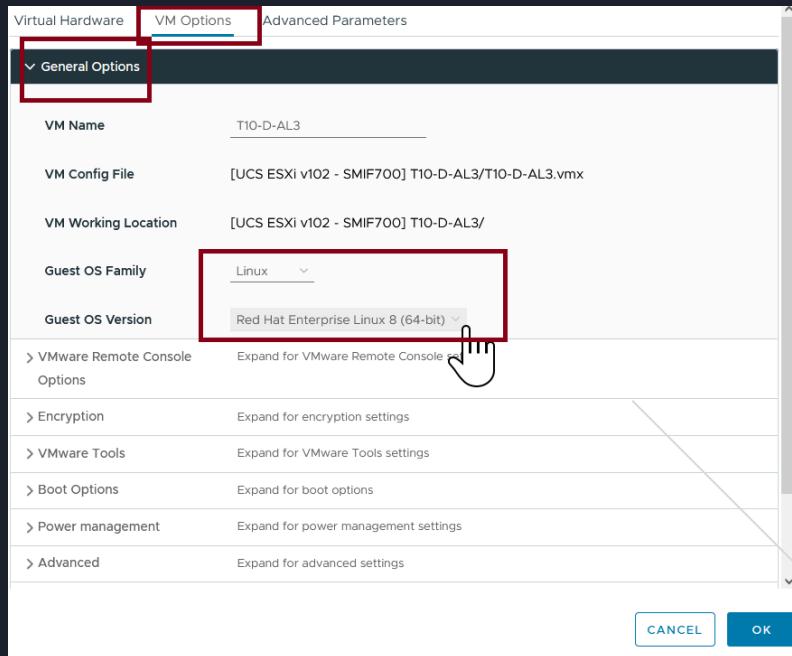
The screenshot illustrates the steps to edit VM settings in vSphere Client:

- Left Panel:** Shows the environment tree with "CIT-Datacenter" selected. Under "CIT470-Team10", the VM "T10-D-AL3" is highlighted and selected.
- Summary Tab:** The "Summary" tab is selected in the main pane. A red box highlights the "Actions" menu icon.
- Actions Menu:** The "Actions - T10-D-AL3" menu is open, showing options like Power, Guest OS, Snapshots, etc. A red box highlights the "Edit Settings..." option, which is being clicked by a mouse cursor.
- Edit Settings Dialog:** The "Edit Settings" dialog for "T10-D-AL3" is open. A red box highlights the "VM Options" tab, which is also being clicked by a mouse cursor.
- VM Options Tab Content:** The "VM Options" tab displays configuration details for the VM, including:
 - CPU: 2 CPU(s), 0 MHz used
 - Memory: 4 GB, 0 GB memory active
 - Hard disk 1: 96 GB
 - SCSI controller 0: LSI Logic Parallel
 - Network adapter 1: 470-VL710-dmz (Connected)
 - CD/DVD drive 1: Datastore ISO File (Connect At Power On checked)
 - Video card: Specify custom settings
 - SATA controller 0: AHCI
 - Security Devices: Not Configured
 - Other: Additional Hardware

Step 6.

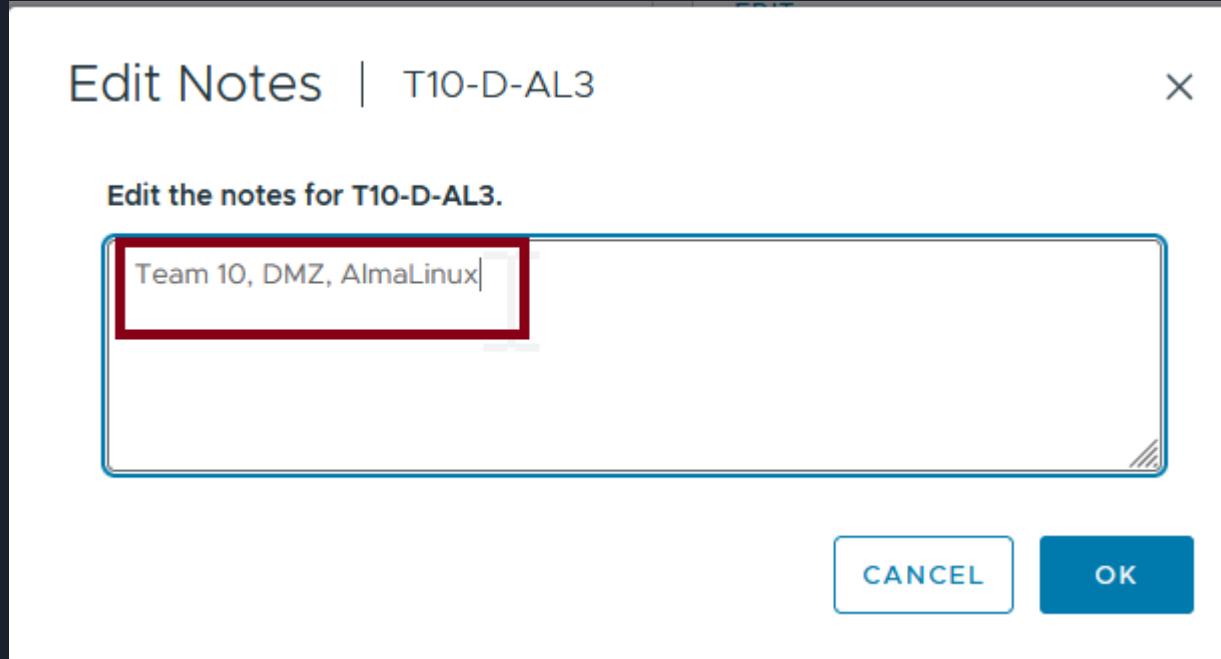
Under General Options, Select Guest OS family and select Linux then Under Guest OS Version select Red Hat Enterprise Linux 8 (64-Bit) Click OK

Under the Summary tab, scroll down to the notes section and click ADD



Step 7.

Enter the Team name, Zone, and OS

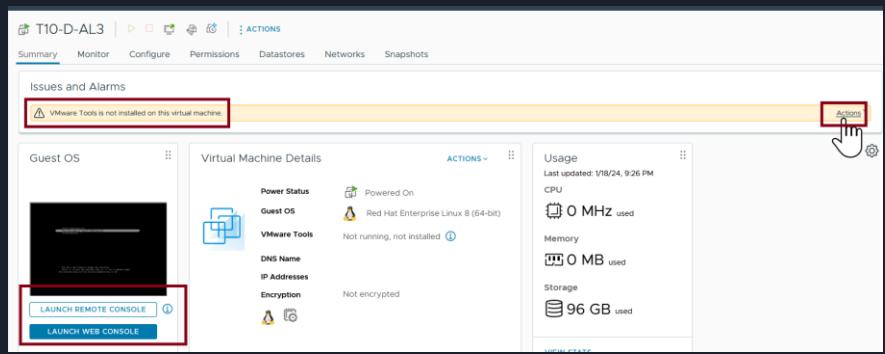
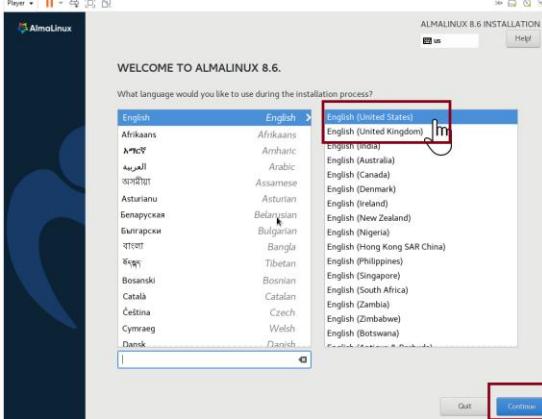
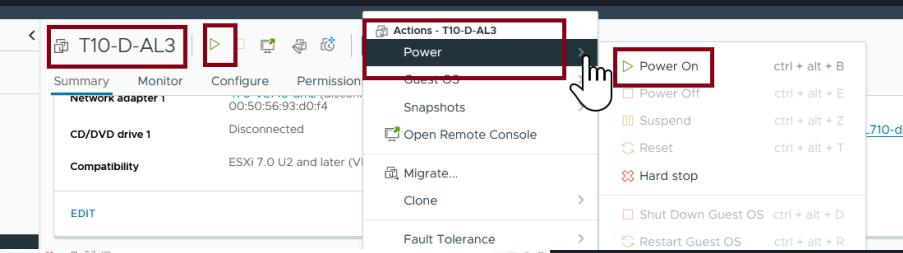


Step 8.

Power on the machine

When the vmWare tools is not installed warning pops up, click actions and then install vmware tools

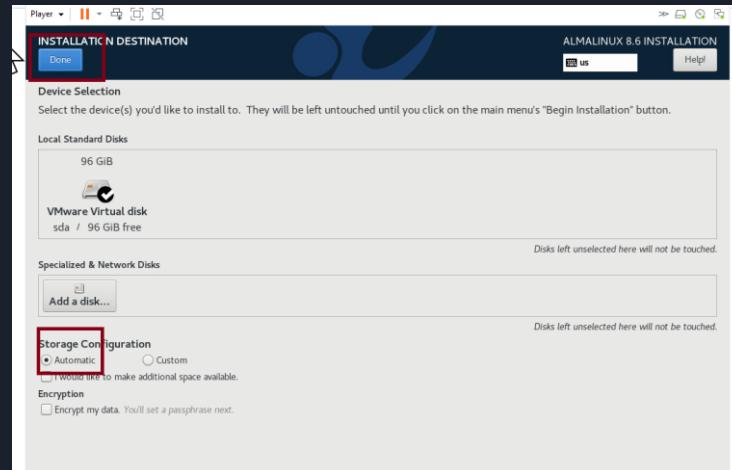
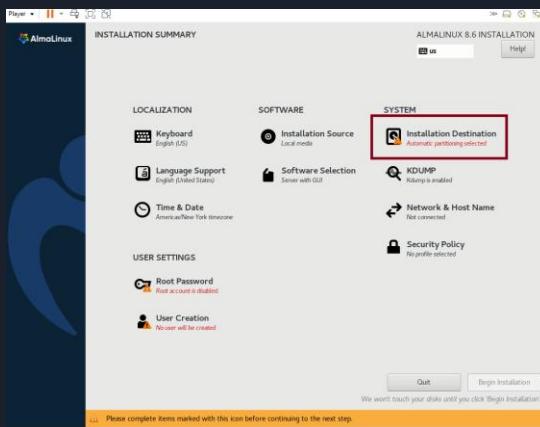
Choose a language and click next



Step 9.

Click on Installation Destination

Set Storage Configuration to Automatic and click done

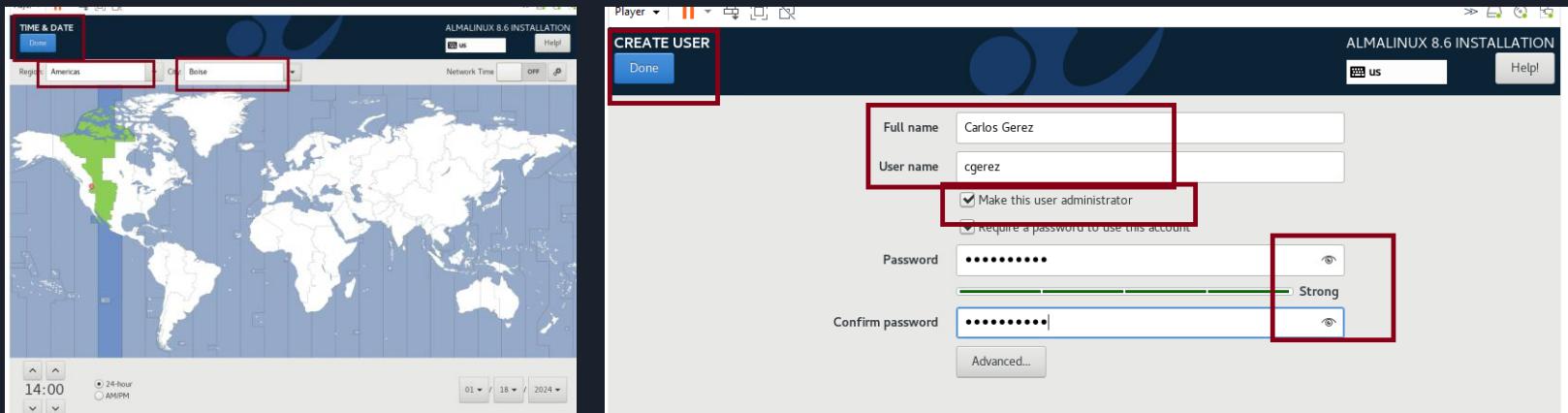


Step 10.

Select Time Zone

Create a user by filling in the needed information and checking the make Administrator box.

Make sure to create a strong password

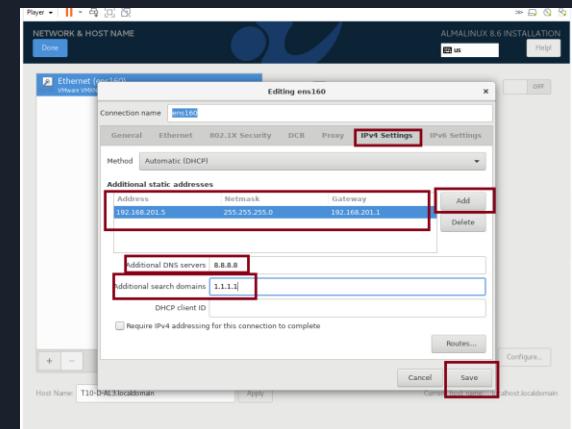
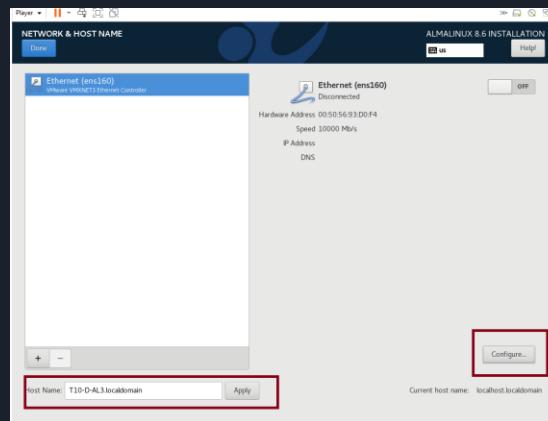
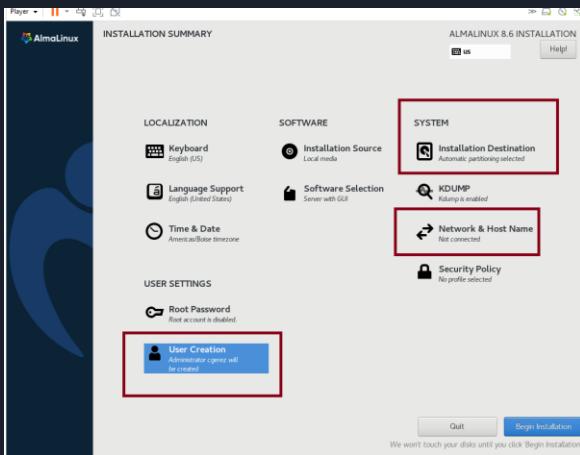


Step 11.

Click on Network & Hostname add the (machine name).localdomain to the host name field, click apply, and then click on Configure

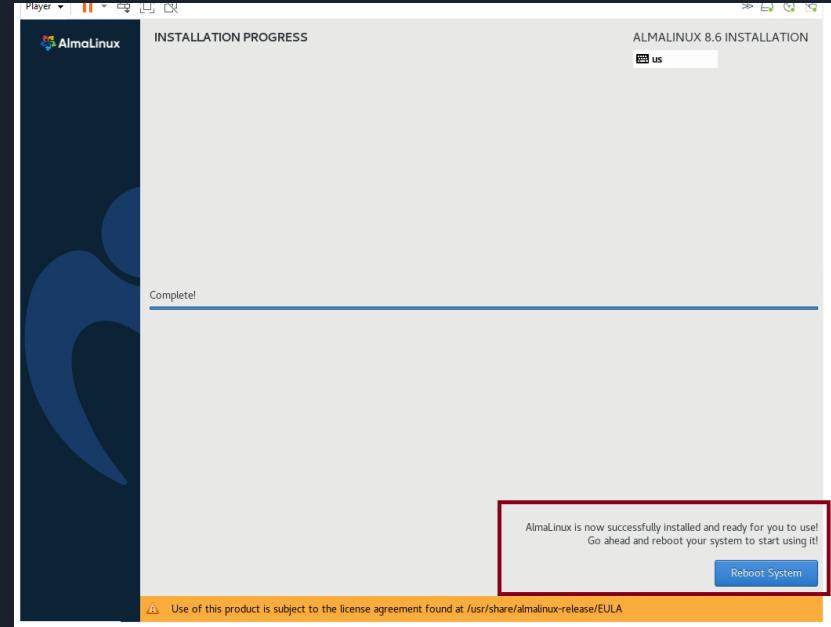
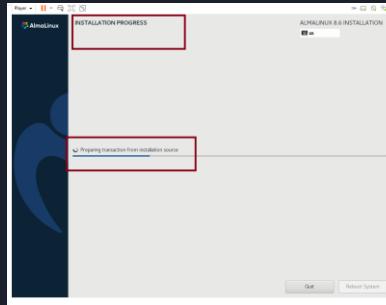
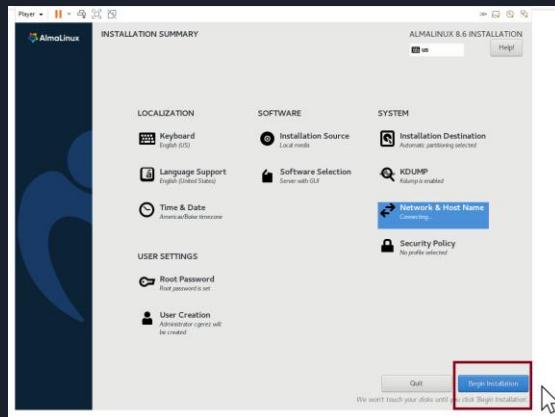
Select IPv4 setting and add ip address, netmask, gateway then click Add

Add DNS addresses then click next



Step 12.

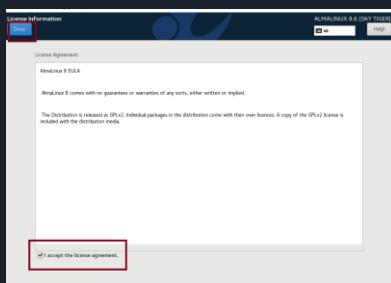
Select Begin Installation Process, wait for completion, and then reboot the system



Step 13.

Accept the licensing agreement

Go Back to vSphere Client and select the Settings icon



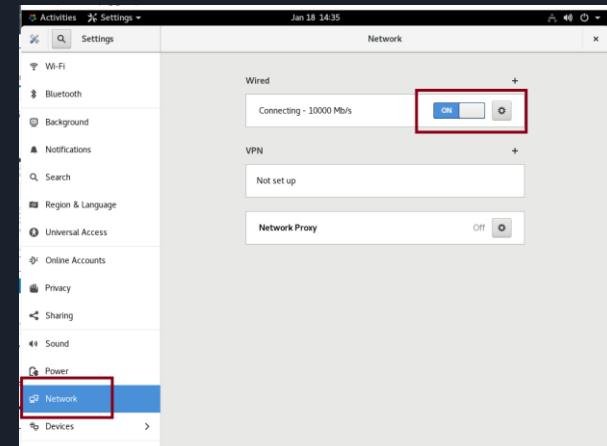
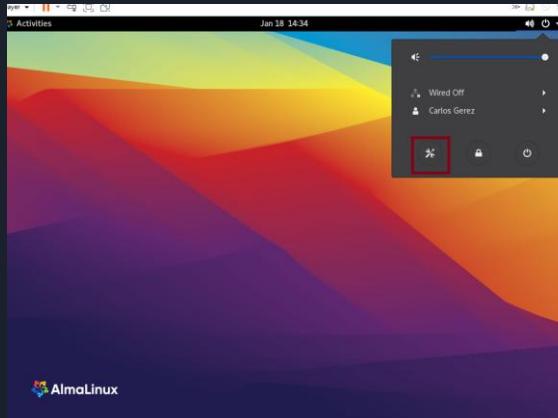
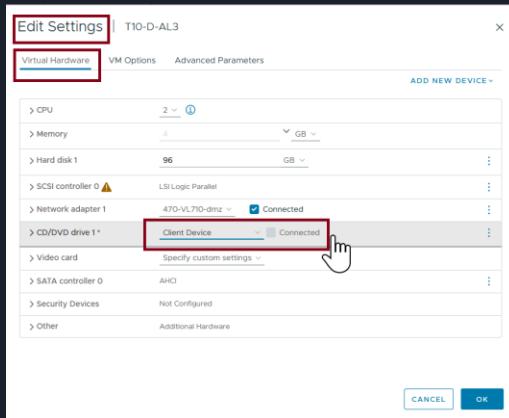
The screenshot shows the vSphere Client interface for a virtual machine named 'T10-D-AL3'. The 'Summary' tab is selected. In the top right corner, there is an 'ACTIONS' menu with a red box around it. A hand cursor is pointing at the 'Settings...' option in the dropdown menu. The main pane displays 'Virtual Machine Details' including Power Status (Powered On), Guest OS (Red Hat Enterprise Linux 8 (64-bit)), VMware Tools (Running, version:11365 (Guest Managed)), DNS Name, IP Addresses, and Encryption (Not encrypted). To the right, there is a 'Usage' summary showing CPU (0 MHz used), Memory (0 MB used), and Storage (96 GB used). Buttons for 'LAUNCH REMOTE CONSOLE' and 'LAUNCH WEB CONSOLE' are also visible.

Step 14.

Under the Virtual Hardware tab > CD/DVD drive 1 use the dropdown arrow to remove the iso image and select Client Device

Go to the Alma Linux workstation and select settings from the dropdown then select network

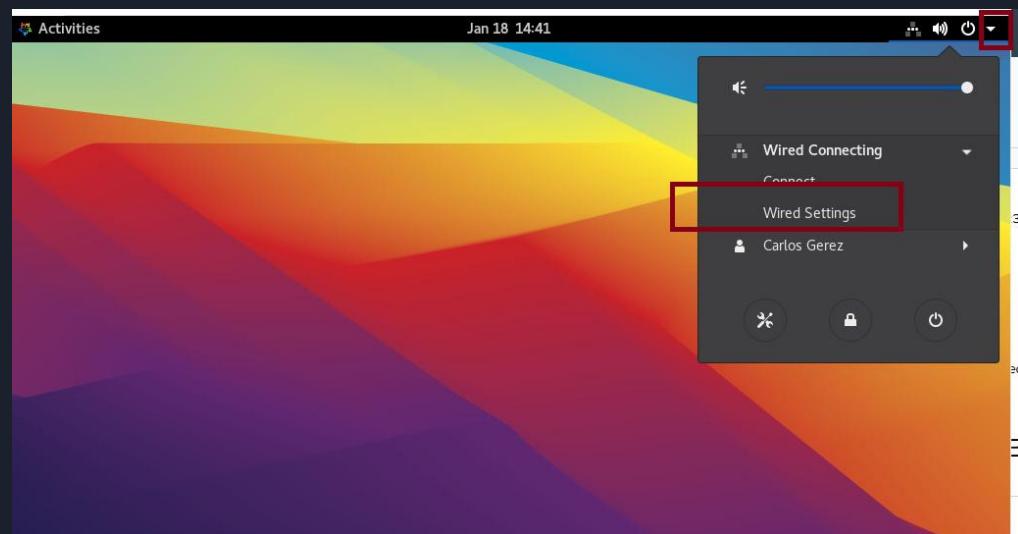
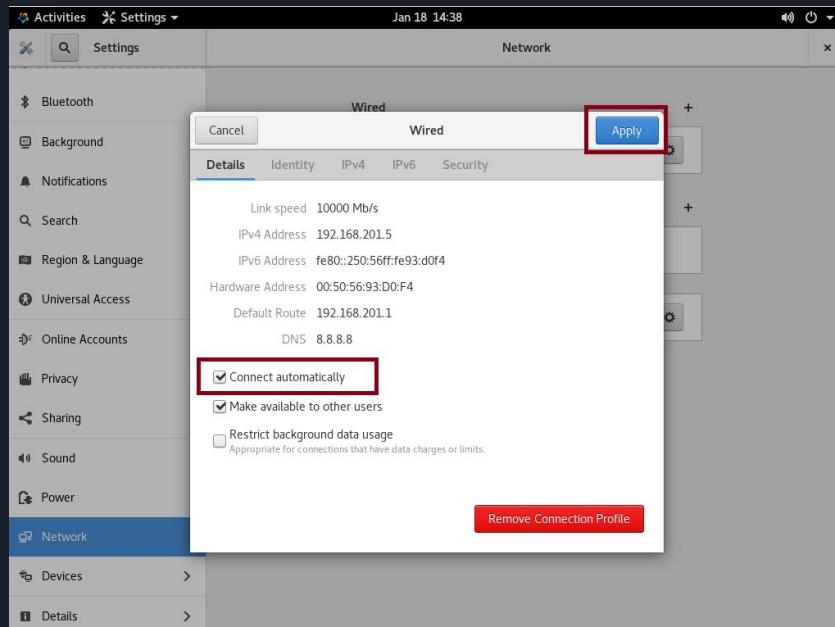
Switch the Wired Selection on then click on the settings gear icon



Step 15.

Check the Connect Automatically box and click Apply

Click on the Network Icon and go to Wired Settings

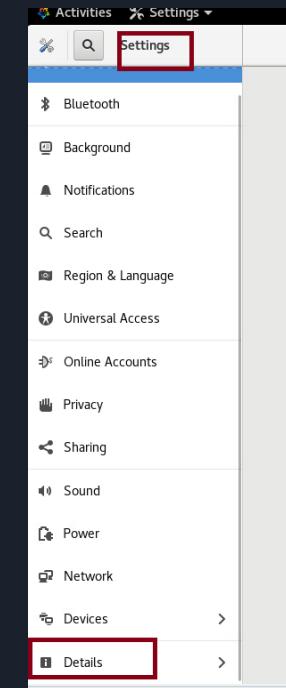
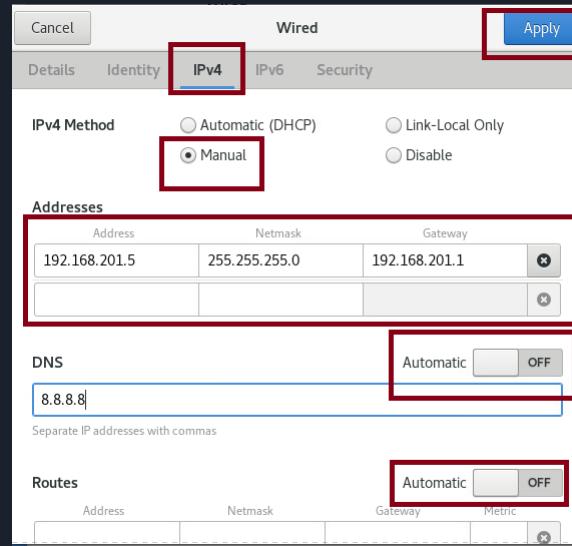
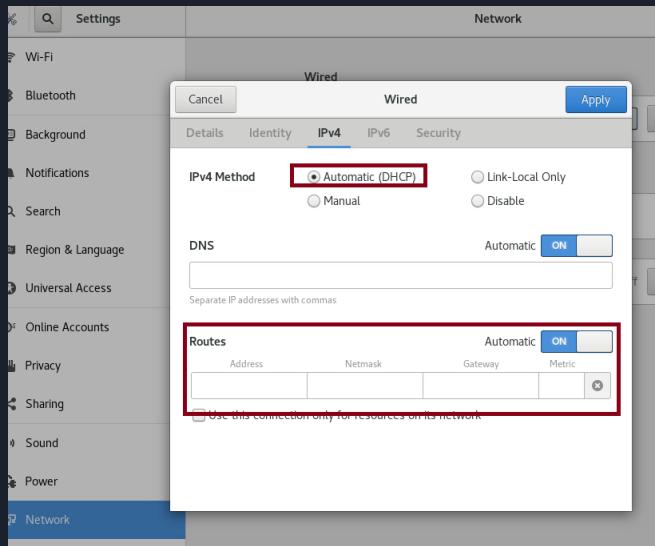


Step 16.

Under IPv4 settings change from Automatic (DHCP) to Manual

Make sure IP and DNS addressing is correct and click apply

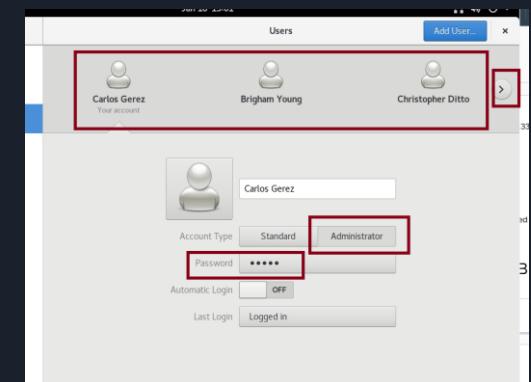
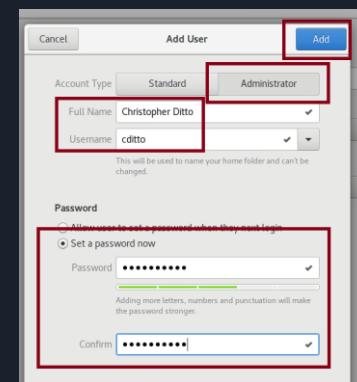
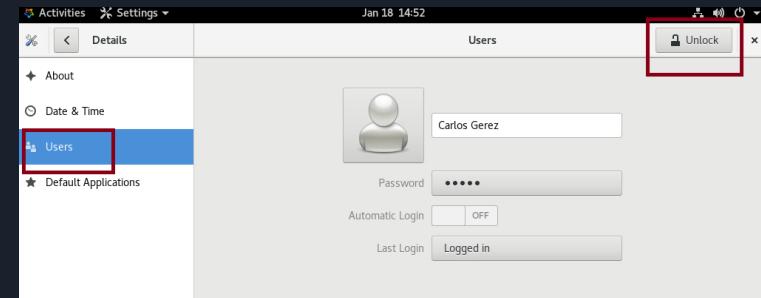
Click on Settings and select Details



Step 17.

Click About and enter (machine name).localdomain to the Device Name Field

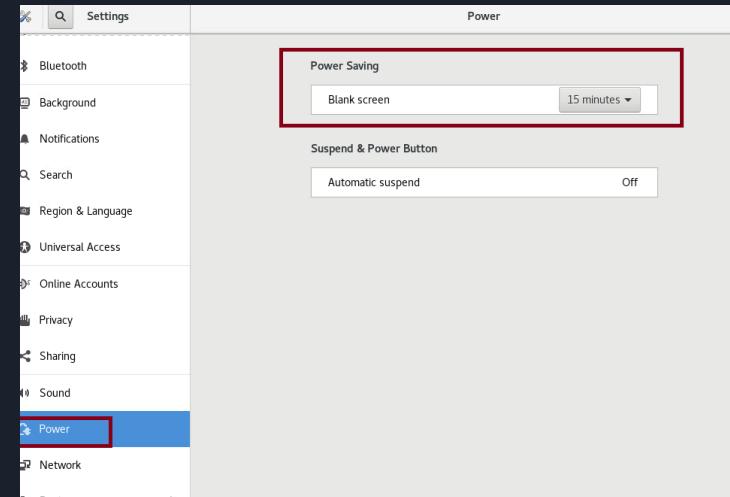
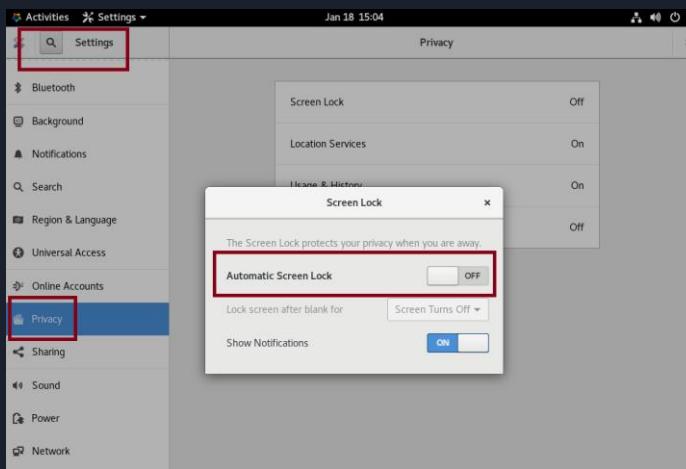
Click on Users Create a user with administrative authority for each team member and then one for The BYU instructor using the username youngb and Name: Brigham Young



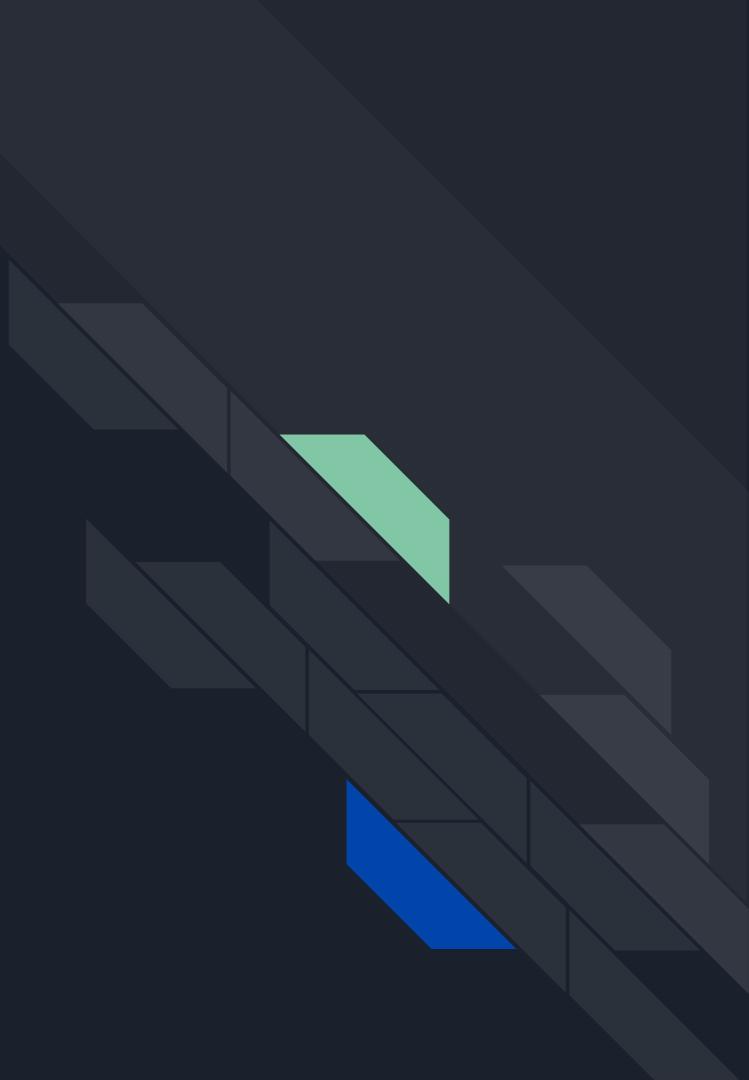
Step 18.

Under Settings Click on Settings>Privacy turn off Automatic Screen Lock

Under Settings>Power adjust Power Saving to desired specification

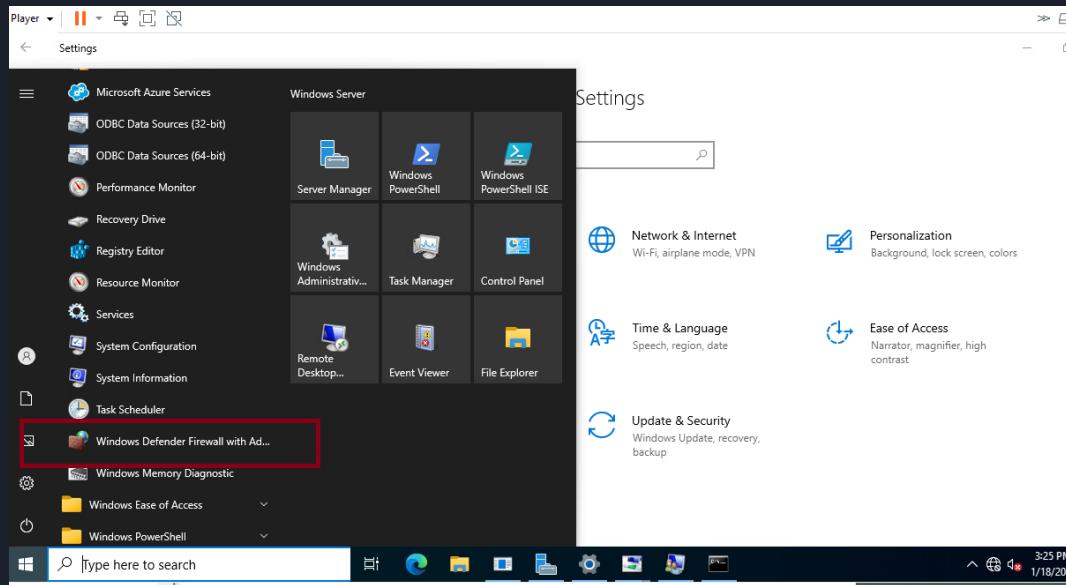


Challenges we faced



Inbound rule for Windows to accept ping requests.

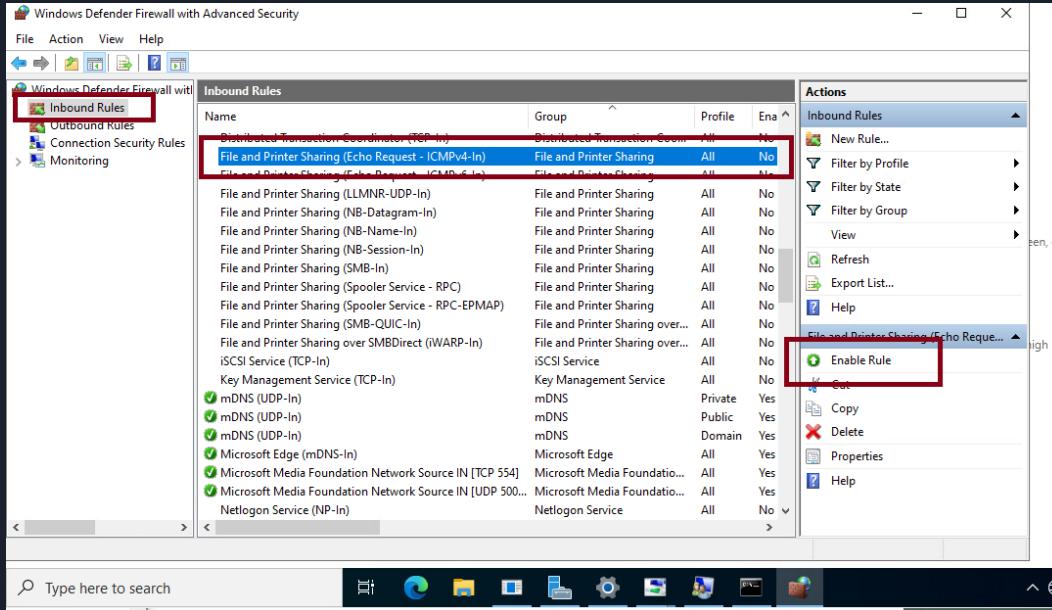
Open Windows Defender Firewall



Inbound rule for Windows to accept ping requests.

Click on Inbound Rules then select File and Printer Sharing(Echo Request - ICMPv4 in)

Select Enable Rule



Inbound rule for Windows to accept ping requests.

The rule is now showing Enabled

The screenshot shows the Windows Defender Firewall with Advanced Security interface. The left navigation pane has 'Inbound Rules' selected, highlighted with a red box. The main area displays a table of inbound rules. One specific rule, 'File and Printer Sharing (Echo Request - ICMPv4-In)', is highlighted with a red box and has its 'Enabled' status set to 'Yes'. The right side of the window shows a context menu for this rule, also with a red box around it. The menu options include 'New Rule...', 'Filter by Profile', 'Filter by State', 'Filter by Group', 'View', 'Refresh', 'Export List...', 'Help', 'Disable Rule', 'Cut', 'Copy', 'Delete', 'Properties', and 'Help'.

Name	Group	Profile	Enabled
Distributed Transaction Coordinator (TCP-In)	Distributed Transaction Co...	All	No
File and Printer Sharing (Echo Request - ICMPv4-In)	File and Printer Sharing	All	Yes
File and Printer Sharing (Echo Request - ICMPv6-In)	File and Printer Sharing	All	No
File and Printer Sharing (LLMNR-UDP-In)	File and Printer Sharing	All	No
File and Printer Sharing (NB-Datagram-In)	File and Printer Sharing	All	No
File and Printer Sharing (NB-Name-In)	File and Printer Sharing	All	No
File and Printer Sharing (NB-Session-In)	File and Printer Sharing	All	No
File and Printer Sharing (SMB-In)	File and Printer Sharing	All	No
File and Printer Sharing (Spooler Service - RPC)	File and Printer Sharing	All	No
File and Printer Sharing (Spooler Service - RPC-EPMAP)	File and Printer Sharing	All	No
File and Printer Sharing (SMB-QUIC-In)	File and Printer Sharing over...	All	No
File and Printer Sharing over SMBDirect (iWARP-In)	File and Printer Sharing over...	All	No
iSCSI Service (TCP-In)	iSCSI Service	All	No
Key Management Service (TCP-In)	Key Management Service	All	No
mDNS (UDP-In)	mDNS	Private	Yes
mDNS (UDP-In)	mDNS	Public	Yes
mDNS (UDP-In)	mDNS	Domain	Yes
Microsoft Edge (mDNS-In)	Microsoft Edge	All	Yes
Microsoft Media Foundation Network Source IN [TCP 554]	Microsoft Media Foundation...	All	Yes
Microsoft Media Foundation Network Source IN [UDP 500...]	Microsoft Media Foundation...	All	Yes
Netlogon Service (NP-In)	Netlogon Service	All	No

Ping from machines inside DMZ successful.



Ping from T10-D-AL3 to T10-D-AL2 and T10-D-WS

```
[cgerez@T10-D-AL3 ~]$ ping 192.168.201.3
PING 192.168.201.3 (192.168.201.3) 56(84) bytes of data.
64 bytes from 192.168.201.3: icmp_seq=1 ttl=64 time=0.438 ms
64 bytes from 192.168.201.3: icmp_seq=2 ttl=64 time=0.338 ms
64 bytes from 192.168.201.3: icmp_seq=3 ttl=64 time=0.328 ms
64 bytes from 192.168.201.3: icmp_seq=4 ttl=64 time=0.298 ms
64 bytes from 192.168.201.3: icmp_seq=5 ttl=64 time=0.244 ms
^C
--- 192.168.201.3 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4076ms
rtt min/avg/max/mdev = 0.244/0.329/0.438/0.064 ms
[cgerez@T10-D-AL3 ~]$ ping 192.168.201.2
PING 192.168.201.2 (192.168.201.2) 56(84) bytes of data.
64 bytes from 192.168.201.2: icmp_seq=1 ttl=128 time=0.486 ms
64 bytes from 192.168.201.2: icmp_seq=2 ttl=128 time=0.368 ms
64 bytes from 192.168.201.2: icmp_seq=3 ttl=128 time=0.372 ms
64 bytes from 192.168.201.2: icmp_seq=4 ttl=128 time=0.286 ms
^C
--- 192.168.201.2 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3102ms
rtt min/avg/max/mdev = 0.286/0.378/0.486/0.071 ms
[cgerez@T10-D-AL3 ~]$
```



Ping from T10-D-WS to T10-D-AL2 and T10-D-AL3

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Administrator> ping 192.168.201.3

Pinging 192.168.201.3 with 32 bytes of data:
Reply From 192.168.201.3: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.201.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
PS C:\Users\Administrator> ping 192.168.201.5

Pinging 192.168.201.5 with 32 bytes of data:
Reply From 192.168.201.5: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.201.5:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
PS C:\Users\Administrator>
```

Ping from machines inside DMZ successful.



```
Activities Terminal ▾ Jan 18 15:45
cditto@T10-D-AL2:~$ ping 192.168.201.5
PING 192.168.201.5 (192.168.201.5) 56(84) bytes of data.
64 bytes from 192.168.201.5: icmp_seq=1 ttl=64 time=0.392 ms
64 bytes from 192.168.201.5: icmp_seq=2 ttl=64 time=0.297 ms
64 bytes from 192.168.201.5: icmp_seq=3 ttl=64 time=0.302 ms
^C
--- 192.168.201.5 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2056ms
rtt min/avg/max/mdev = 0.297/0.330/0.392/0.046 ms
[cditto@T10-D-AL2:~]$ ping 192.168.201.2
PING 192.168.201.2 (192.168.201.2) 56(84) bytes of data.
64 bytes from 192.168.201.2: icmp_seq=1 ttl=128 time=0.506 ms
64 bytes from 192.168.201.2: icmp_seq=2 ttl=128 time=0.482 ms
64 bytes from 192.168.201.2: icmp_seq=3 ttl=128 time=0.376 ms
64 bytes from 192.168.201.2: icmp_seq=4 ttl=128 time=0.445 ms
^C
--- 192.168.201.2 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3063ms
rtt min/avg/max/mdev = 0.376/0.452/0.506/0.051 ms
[cditto@T10-D-AL2:~]$
```

Ping from T10-D-AL2 to T10-D-AL3 and T10-D-WS



Useful links for sharing passwords databases:

1. This is a video about how to sync KeePass using Google Drive in Android and Windows devices.
<https://www.youtube.com/watch?v=-txzWZhZm9c&t=450s>
1. Documentation about Google Drive synchronization between devices.
<https://support.google.com/drive/answer/10838124?hl=en#zippy=%2Csync-a-folder-with-google-drive-or-google-photos%2Cdownload-drive-for-desktop>