# Week 2 Windows Server Activities – Windows 11 Client

Activities

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**How to Create Screenshots:** Please use the Windows Snip and Sketch Tool or the Snipping Tool. Paste a screenshot of just the program you are working on. If you are snipping a virtual machine, make sure your focus is outside the virtual machine before you snip.

1. Press and hold down the **Windows key** & **Shift**, then type **S.** This brings up the on-screen snipping tool.
2. Click and Drag your mouse around whatever you want to snip.
3. Release the mouse button. This places the snip into the Windows Clipboard.
4. Go into Word or wherever you want to paste the snip. Hold down **CTRL**, then type **V** to paste the snip.

# Activity 2-1: Install Windows 11

Time required: 60 minutes

# Download Windows 11 Enterprise Evaluation

**DANGER!! Will Robinson!!!!**

When downloading this ISO:

* **DO NOT OPEN IT.**
* **DO NOT TOUCH IT!**

You can wipe the hard drive of your computer if you don’t pay attention. It has happened before with other students.

1. Download the evaluation copy of **Windows 11 Enterprise**.  
   <https://www.microsoft.com/en-us/evalcenter/evaluate-windows-11-enterprise>
2. Download the ISO – Enterprise. You will need to Register.
3. Download the **ISO** to a folder on your hard drive where you can find it.

# Create a Windows 11 Virtual Machine

1. Start VirtualBox.
2. Click **New.**

A screenshot of a computer

Description automatically generated

1. Name and operating system: Enter **Windows 11** for the Name. The Version should automatically be Windows 11 (64-bit). Click **Next**.

Graphical user interface, text, application, email

Description automatically generated

1. Memory Size: Accept default size of 4096 MB. Click **Next**.

Graphical user interface, application

Description automatically generated

1. Accept the default File size of 80 GB. Click **Create**.

Graphical user interface, text, application

Description automatically generated

1. Click Finish.

Graphical user interface, text, application, email

Description automatically generated

# Itall Windows 11 Enterprise

1. Click **Start** on your new virtual machine.
2. Click the drop-down menu next to DVD 🡪 Select **Other** 🡪Browse for your Windows 11 ISO file.

A screenshot of a computer error

Description automatically generated

1. Click **Start** (You will be asked to press any key to boot from CD or DVD.) 🡪 Press any key on your keyboard. Your virtual machine will boot from the ISO and start setup.
2. The Windows 11 installation screen should appear.
3. Click **Next 🡪 Install now**.
4. Accept the license terms 🡪 Click **Next**.
5. Click **Custom: Install Windows only (advanced)**.
6. Click **Disk 0 Unallocated Space 🡪** Click **Next**.
7. Windows will install. This may take some time. Windows will reboot. Work on other homework while the installation does its thing.
8. After Windows 11 boots up 🡪 Go to the **Devices** menu 🡪 **Optical Drives 🡪** **Remove disk from virtual drive**.
9. After a bit Windows will reboot again.

## Configure Windows 11

**NOTE:** These configuration steps can change without notice.

1. When the installation is complete, the screen will say **Is this the right country or region?** Click **Yes**.
2. **Is this the right keyboard layout or input method?** Click **Yes**.
3. **Want to add a second keyboard layout**? Click **Skip**.
4. **Let’s set things up for your work or school:** Click **Sign-in options**.
5. **Sign-in options 🡪 Domain join instead**
6. **Enter your name 🡪** Type in **User** for the username. Click **Next**.
7. **Create a super memorable password:** Use **Password01**. Click **Next**.
8. Confirm your password. Click **Next**.
9. Make up security answers. Click **Next**.
10. **Choose privacy settings for your device:** You can turn them all off if you wish. Click **Accept**.
11. Right Click **Start** (Power User menu) 🡪 Click **System**. This will bring up the System Properties. Click **Rename this PC**.
12. Change the computer name to **Win11** 🡪 Click **Restart Now**.
13. Log in to **Win11**. At the top of the Virtual machine window 🡪 go to the **Devices** menu 🡪 Choose **Insert Guest Additions CD image**.
14. Open **File Explorer 🡪** Click the **VirtualBox Guest Editions CD Drive 🡪** Double Click **VBoxWindowsAdditions** 🡪 Install and agree with default settings.
15. Accept all prompts. Restart when prompted.
16. Click Start🡪 Type and choose **Control Panel** 🡪 Type and choose **Network and Sharing Center**.
17. Click **Ethernet**. Click **Properties**, Click **Internet Protocol Version 4**, Click **Properties.**
18. Win10 Network Settings:  
    IP Address: 10.10.1.20  
    Subnet Mask: 255.255.255.0  
    Default Gateway: 10.10.1.1  
    DNS: 8.8.8.8
19. Google how to set the time zone to Mountain Time.
20. In VirtualBox on your VM. Go to **Settings** 🡪 **Network** 🡪 Choose the **NatNetwork** we created earlier.
21. **Insert a screenshot of your VM running on your desktop.**

Click or tap here to enter text.

Video walkthrough: [VirtualBox User Created NAT](https://youtu.be/tGUGQuC8wbY)

# VirtualBox NAT Network Troubleshooting

There can be issues using a user created NAT network in VirtualBox. Here are some steps that may help resolve issues.

1. Delete and recreate the NAT Network.

If that doesn’t work, try this.

1. Delete the NAT Network you are working on.
2. Run the following command at a command prompt to list the DHCP servers (NAT networks).

|  |
| --- |
| cd "c:\Program Files\Oracle\VirtualBox"  vboxmanage list dhcpservers |

**NOTE:** NatNetwork is the default name for the first NAT network created. Replace that name with the name of the network you wish to remove.

|  |
| --- |
| cd "c:\Program Files\Oracle\VirtualBox"  Vboxmanage.exe dhcpserver remove --network=”NatNetwork” |

1. Create the NAT network again.
2. Switch the VM to the Bridged Adapter.
3. Set the VM to the new NAT Network.

# Activity 2-2: Windows Update

Time Required: Approximately 15 minutes

Objective: Use Server Manager to start Windows Update.

Description: Plan to regularly update Windows Server 2022 to keep the operating system secure and to obtain the latest service pack when it becomes available. In this activity, you use Server Manager to access Windows Update and then check to see if there are updates waiting to be installed. The default setting for Windows Update is to automatically download updates, but to not install them until you initiate the installation. This is so that updating the operating system is not occurring automatically while users are active. In this way, you can install updates during a scheduled time when users are not on the server. For this activity, the server should already be connected to the Internet.

1. Logon to **Server1**.
2. Open **Server Manager**.
3. Click **Local Server** in the left pane.
4. Click the link to the right of Windows Update, which is Download updates only, using Microsoft Update.
5. In the Settings window under Update & security, check to see if there are updates waiting to be installed and if there are, click the Install now button. (Alternatively, if there are no updates waiting to be installed, click the Check for updates button and then if updates are downloaded, click the Install now button.)
6. **Insert a screenshot for each updated server:**

Click or tap here to enter text.

# Assignment Submission

Attach this completed document to the assignment in BlackBoard.