**SY486J: Cyber Crime Investigation: Lab One**

The goal for this lab exercise is to help us set up the lab environment we will be using. We will install Kali, Windows 2016 Server and Ubuntu 18.04 if you do not have it.

Please select a machine to be your primary machine for the semester. You'll want to keep using the same machine as much as possible, because your virtual machines will be there.

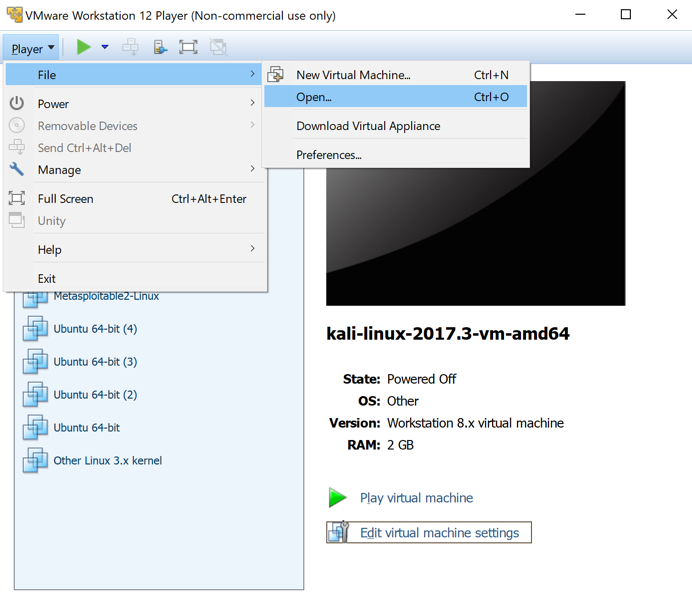
1. **Create a VM folder**

Go to “This PC”. Find Documents folder, and look for Virtual Machines folder. In a there create a new folder called “YOUR Name VMs”.

1. **Starting your Kali Virtual Machine**

Copy a folder called Kali-Linux-2018-vm-amd64 from the server into the folder you created in the previous step. Now you are ready to start your VM.

In VMware Player, at the top left, click Player, File, Open..., as shown below. Navigate to the Kali-Linux-2018-vm-amd64 folder and click on the file that displayed.



Log in to Kali with the username **root** and a password of **toor**. You should see the Kali Linux desktop as shown below:



1. **Testing your Kali Linux**

On your Kali Linux system, in a Terminal window, right-click and click Paste. If VMware tools are working, the command appears, as shown below.

https://samsclass.info/123/proj10/p1bvm26.png

1. **Power Saving**

By default, Kali 2.0 will keep locking the screen after a few seconds of inactivity, which is irritating. To fix this, on the left side of the Kali 2.0 desktop, click the bottom button to "Show Applications", as shown below.

On the right side of the Kali 2.0 desktop, click the lowest circle to show the bottom screen. Then click Settings, as shown below.



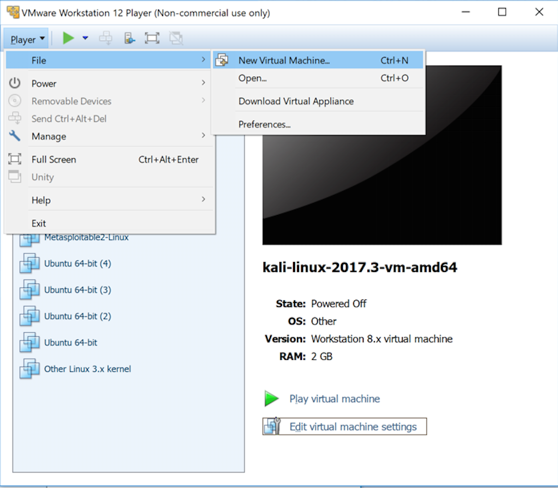
In the "All Settings" window, click Power.

Set "Blank screen" to Never, as shown below.

**Windows Server 2016 Setting up**

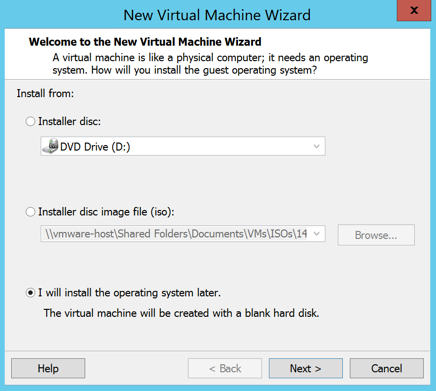
1. **Installing Windows**

Start VMware Player. Click Player, File, "New Virtual Machine...", as shown below.



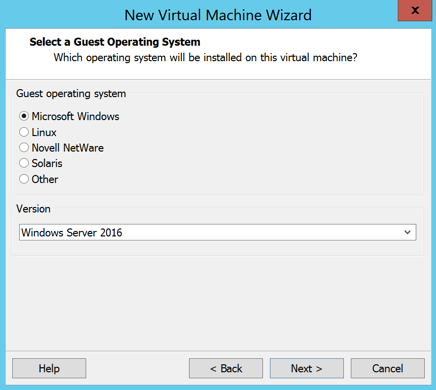
In the "Welcome to the New Virtual Machine Wizard" screen, click the "**I will install the operating system later.**" button, as shown below.

Click **Next**.



In the "Select a Guest Operating System" box, select "**Microsoft Windows**" and "**Windows Server 2016**", as shown below.

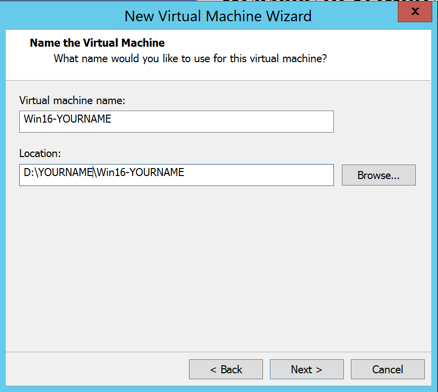
Click **Next**.



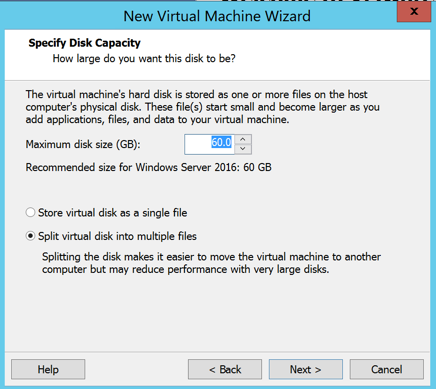
In the "Name the Virtual Machine" box, enter a Virtual machine name of **Win16-YOURNAME**, replacing "YOURNAME" with your own name, as shown below.

Click the **Browse...** button and navigate to the VMs drive and the folder with your name on it.

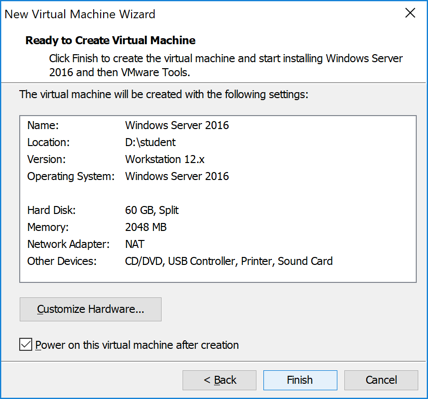
Click **Next**.



In the "Specify Disk Capacity" box, accept the default options, as shown below, and click **Next**.



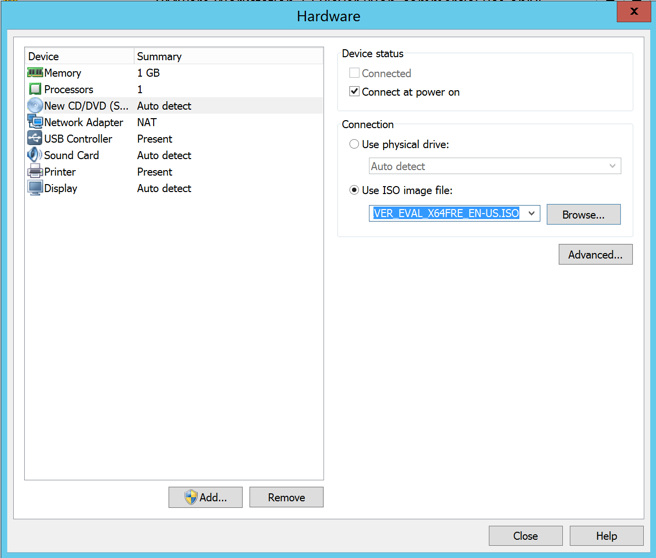
In the "Ready to Create Virtual Machine" box, click the "**Customize Hardware...**" button, as shown below.



In the "Hardware" box, on the left side, click "**New CD/DVD**". On the right side, click the "**Use ISO image file**" button.

Click the **Browse...** button. Navigate to your Downloads folder and double-click the **4393.0.161119-1705.RS1\_REFRESH\_SERVER\_EVAL\_X64FRE\_EN-US.ISO** file, as shown below.

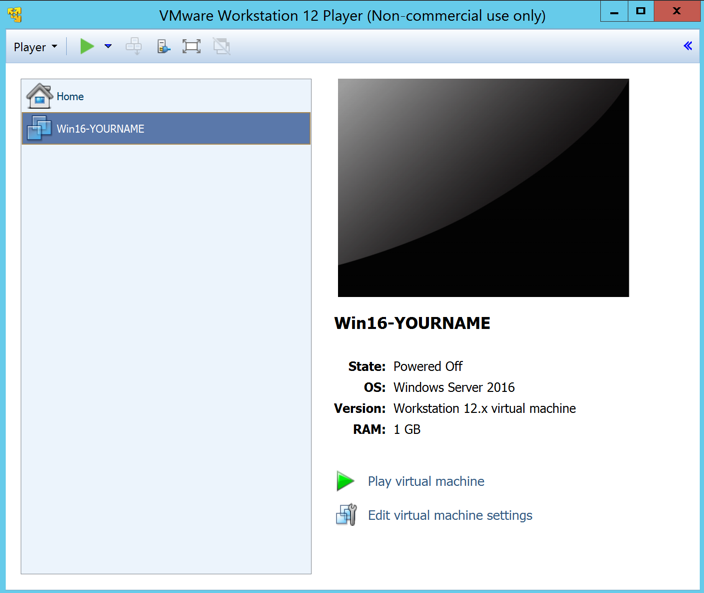
Click the **Close** button.



In the "Ready to Create Virtual Machine" box, click the **Finish** button.

VMware Workstation Player now shows a "Win16-YOURNAME" item on the left side, as shown below.

On the right side, click "**Play virtual machine**".

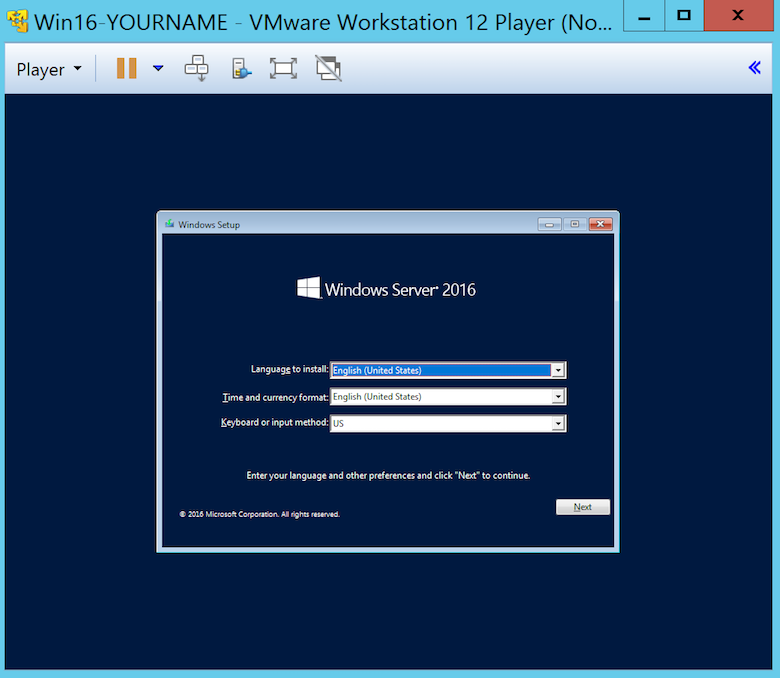


If a box pops up titled "Software Updates", click "**Remind Me Later**".

If a box pops up titled "Removable Devices", click **OK**.

A "Windows Setup" box appears, as shown below.

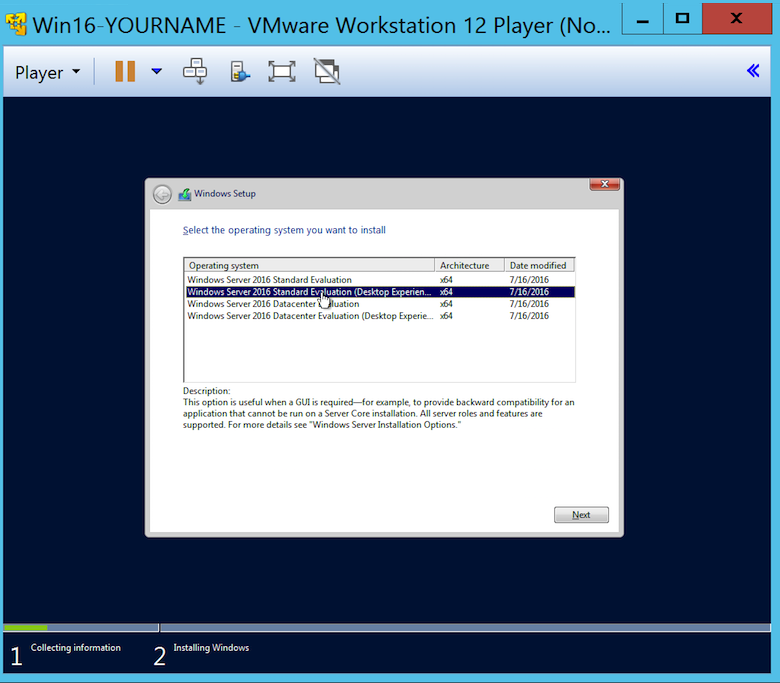
Click **Next**.



On the next screen, click the "**Install now**" button.

In the "Select the operating system you want to install" box, click "**Windows Server 2016 Standard Evaluation (Desktop Experience)**", as shown below.

Click **Next**.



On the next screen, click the "**I accept the license terms**" box, and click **Next**.

On the next screen, click "**Custom: Install Windows only (Advanced)**" box.

In the "Where do you want to install Windows" box, click **Next**.

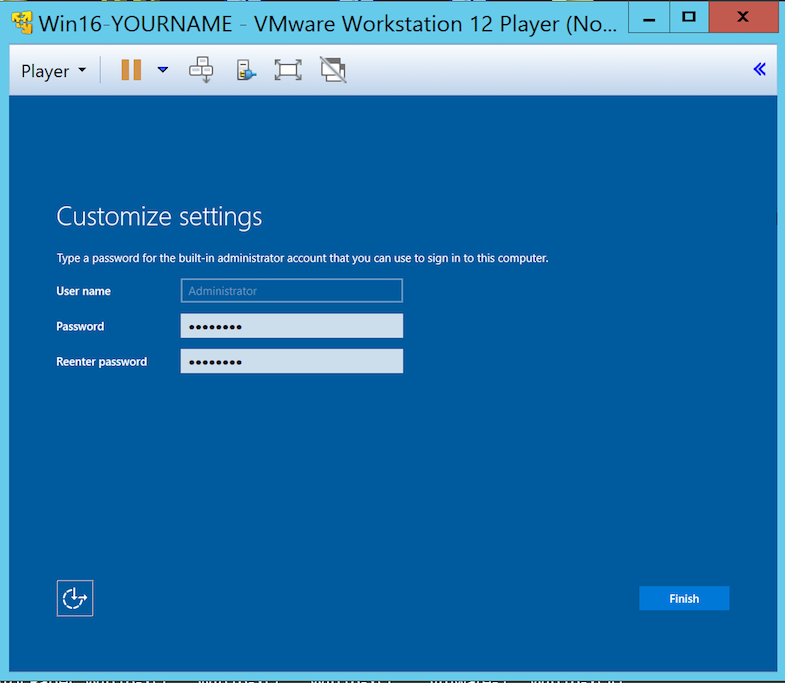
Wait a few minutes while Windows installs.

Your virtual machine restarts twice, and you see the box shown below.

Enter these values:

* Password: **P@ssw0rd**
* Reenter password: **P@ssw0rd**

Click **Finish**

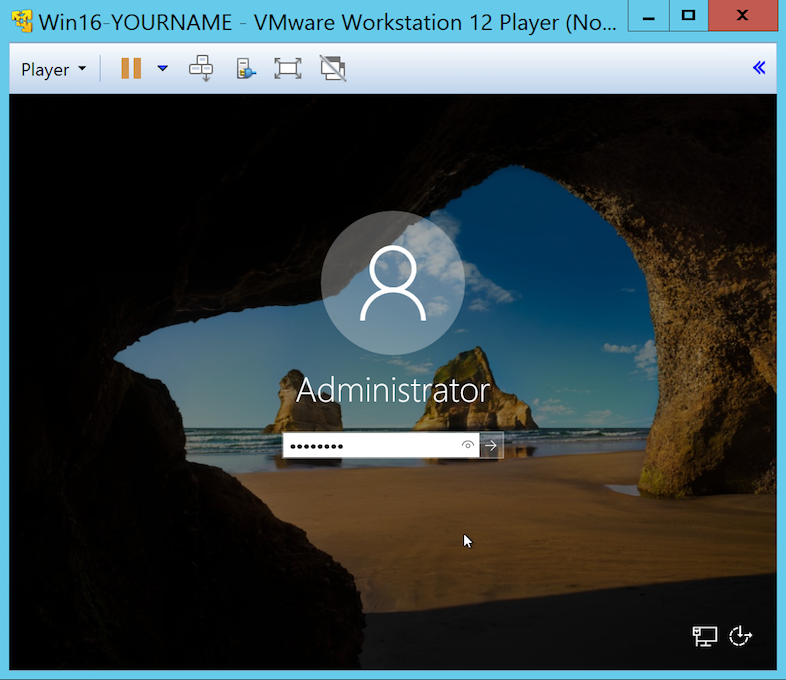


Windows starts.

1. **Logging In**

In VMware Player, at the top left, click Player, "Send Ctrl+Alt+Del".

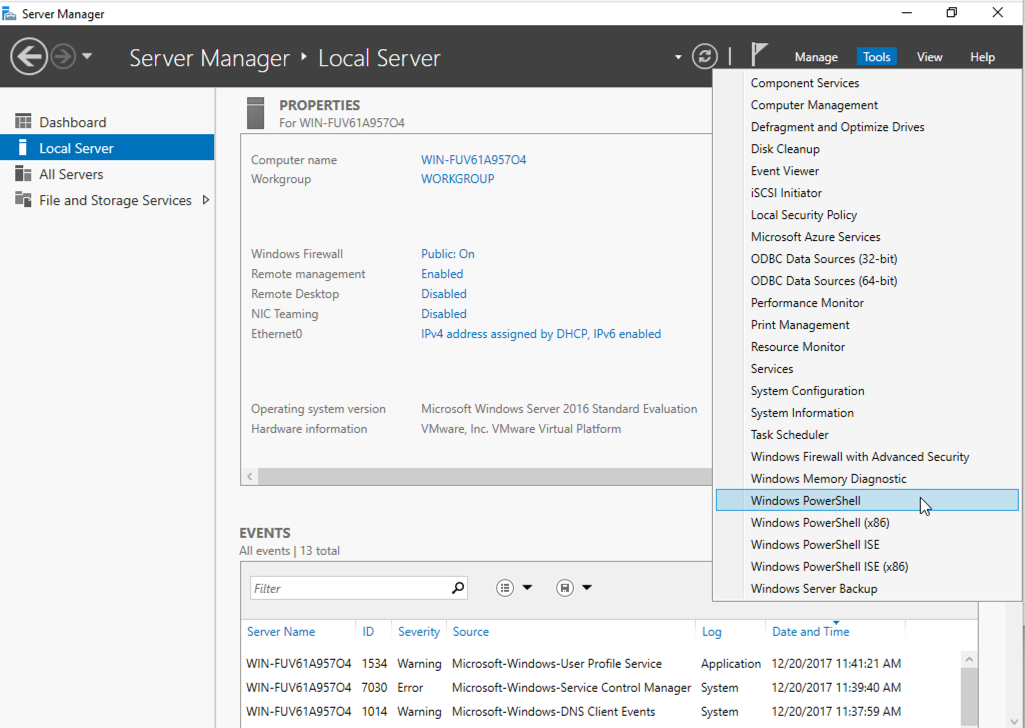
At the login screen, enter a password of P@ssw0rd as shown below. Then press Enter.



Blocking Automatic Updates

Updates are important for security, but for this class we want a vulnerable target machine, so we'll stop them.

On your Windows Server 2016 desktop, in Server Manager, on the top right, click Tools, "Windows PowerShell", as shown below.

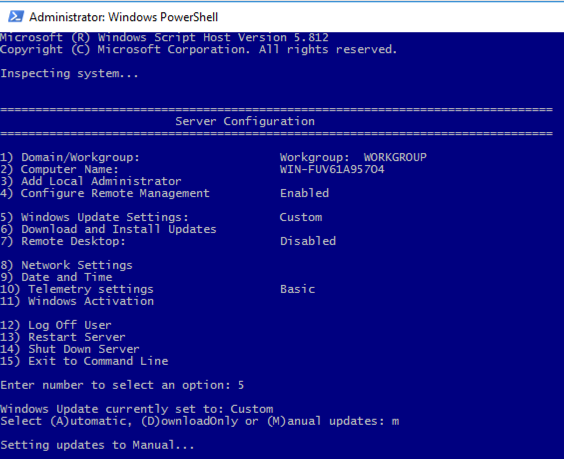


In PowerShell, execute this command:

**Sconfig**

A menu appears, as shown below. Enter these values:

* **5**
* **m**



After a minute or two, an "Update Settings" box pops up. Click OK.

I have all my VMs set up and shown to Dr.S.

MIDN name: <Type in your name here before submission>