

## Lab 0 - PreLab – preparing for your online course

In this class, we will be using VMWare Workstation Pro to create virtual machines where we will install Windows Server multiple times in different configurations. You will need to install VMWare Workstation Pro on your own personal computer or laptop. You need enough hard drive space and enough RAM to support the VMs in the upcoming labs.

Upon completion of this lab you will have everything prepared to install Windows Server 2012 R2 and Windows 8.1 on your computer.

Approximate completion time: 120 minutes.

### 1.0 Obtaining Course Resources

You need the following resources for this course:

- a computer that meets the minimum hardware requirements
- VMWare license downloaded and installed on your computer
- Windows Server 2012 R2 ISO file downloaded
- Fill out the Prelab Chart from this lab and keep to use during labs.
- There is no textbook for this course.

### 1.1 Minimum Hardware Requirements:

In order to be successful in this class you will need a computer with the following minimum hardware requirements:

- a processor that supports hardware virtualization (usually it can be configured in the computer's BIOS)
- 16GB memory (we can make some alterations to the labs if you only have 8GB, but the VMs will not run very well)
- 200GB available hard drive space, preferably SSD (or you can use an external SSD drive attached to your computer. It must use USB 3.0 or higher connector.)
- Windows 10 is the preferred operating system, but Windows 8.1 will work. If you are using a Apple computer, you will need to use VMWare Fusion instead of VMWare Workstation Pro.

## 1.2 Download and install VMWare Workstation Pro

Seneca provides all students with a free license to use VMWare Workstation Pro, downloadable from **VMWare On TheHub**.

1. Sign in. Your **username** will be your **Seneca email address**. Use the forgot password link if you forgot your password or never set one.
2. Once signed in, click **Start Shopping**. Select **VMWare Workstation Pro 15**, **add to cart** and Checkout, the **serial key** will be generated and the download option will be listed.



- 3.
4. Download the software and install it and then enter the serial key under **Help/About** menu in VMWare Workstation.

If you ever need to download the software again, you do not re-purchase it. Login to VMWare OntheHub and click on your name next to the Cart. Select **Account/Orders** and you will see your previous order and you can download again from there.

## 1.3 Downloading Windows Server 2012 R2 and Windows 8.1 ISO files.

Since we are using virtual machines in this course, we do not need to use an installation DVD, but instead we can install directly from an ISO file (disk image file). We will be using a 180 day evaluation copy of Windows Server 2012 R2 and a 90 day evaluation copy of Windows 8.1 so that we do not require the use of a product key to install and run our servers.

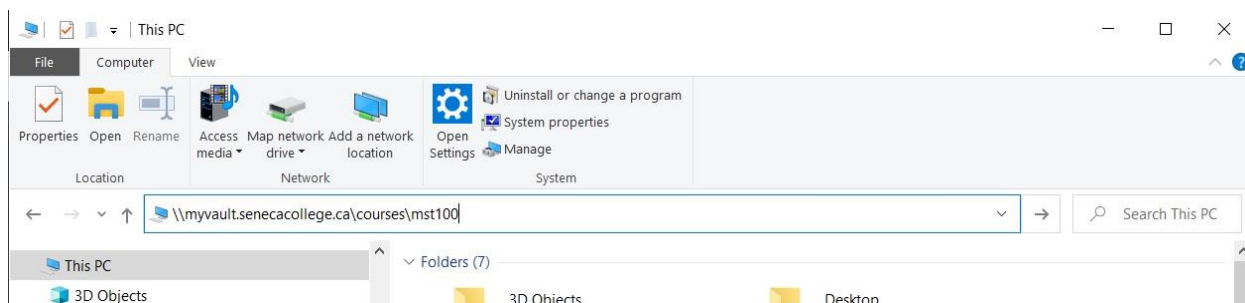
### Connect to the Seneca VPN

The ISO files are being accessed from a special server at Seneca and require that you connect to Seneca through the student VPN. Use the instructions here for installing the VPN and connecting to Seneca:

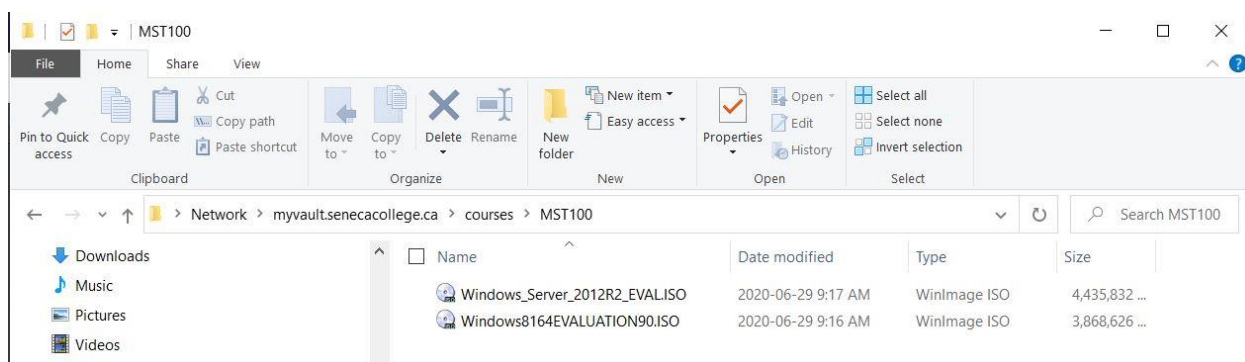
<https://inside.senecacollege.ca/its/services/vpn/>

## Copy the ISO Files to Your Computer

1. Once you are connected through the Seneca VPN, open the File Explorer and type the following path into the address bar: `\\myvault.senecacollege.ca\courses\mst100`



2. Once connected to MyVault, you will see the ISO files listed:



Copy both files to the hard drive on your computer. It would be best to put the ISO files into their own folder. Name the folder MST100 Operating Systems or Software. These are large files and will take some time to download depending on your Internet connection speed.

## 1.4 Gathering Information and Answers for Lab Activities

Several of the labs will require you to enter computer names or IP addresses. The following steps help you assemble all this information in one location.

Print the **PreLab Chart** that can be found in the **Week 1 Course Module**.

Use the instructions below to fill out all information in the chart. Keep this chart with you at all times, as you will need this information throughout the semester to complete the labs.

Alternatively, take a photo with your smart phone and save it someplace that you can access it.

1. To obtain the number to be filled in the *IP address*, *Default Gateway* and *DNS* boxes, go to **My Seneca**. Click on the **MST100** course link. Click **MyGrades** from the menu. One of the first "grades" that will be listed is named **IP address** and it will be a 3 digit number. Write that number in every blank in the table below that relates to the IP address configuration. For example: if the number you find is **125**, then your IP address, etc will be **10.0.125.10**.

2. Next, fill in the **computer name** and **domain name** with your **SenecaID**.  
For example: If your **SenecaID** is **kmjames2**, then your computer name will be **KMJAMES2-S1** and your domain name will be **kmjames2.com**.  
If your SenecaID is long, shorten it to 10 characters. Keep a copy of the table with you when completing the labs.

**To prove you have completed this lab:**

- Create a Microsoft Word document (or use Google docs), with a name of *YourSenecaID-PreLab.docx*.
- Take a screenshots to show you have completed the following:
  - the Prelab chart, filled in with your 3 digit number and SenecaID (this can be a scan or a photo from your phone)
  - VMWare downloaded and installed on your computer – take a screenshot using the Snipping tool or another screen capturing tool)
  - downloaded ISO files (screenshot using Snipping Tool or another digital screen capture tool)
- Paste each screen shot from above into theMSWord document, and label them clearly.
- Save the document as a PDF file (or Print as PDF) using the same name as the document file, and upload it to Learn@Seneca. The link will be in the Weekly Course module.