# CS350 Lab01

VM Assignment Process Creation 08/29/2017

#### **CS350 Course Website**

https://oscourse.github.io

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## VMWare vSphere and vSphere Client

- VMWare vSphere aggregates and virtualizes the underlying physical resources. It provides the virtual resources to the VMware vSphere datacenter.
- Users can access the VMWare vSphere datacenter through vSphere Client.

#### How to Connect to VM in CSVB?

- Web Console in vSphere Client.
- SSH.
- TeamViewer.

## Connect to the VM Using Web Console

- 1. Open a web browser.
- If a student is connecting from the off-campus, he should establish the SSL connection via Binghamton University SSL VPN (<a href="https://ssl.binghamton.edu">https://ssl.binghamton.edu</a>).
- 3. Go to this URL: <a href="https://csvb-html5.pods.bu.int/ui/">https://csvb-html5.pods.bu.int/ui/</a>
- Login with the PODS username and password. Enter PODS\ before the user name. For example, PODS\wick.
- 5. Click on the "Menu" drop down.
- 6. Select VM and Templates.
- 7. Expand the tree on the left panel.
- 8. Find the VM, whose name is based on the PODS ID.
- 9. Open a remote console to access the VM.

## Connect to the VM Using SSH Client

- 1. Open an SSH client.
- 2. [Optional, if SSL connection to campus doesn't work] First, we need to connect any on-campus server, such as bingsuns.cc.binghamton.edu or remote.cs.binghamton.edu
  - a. \$ ssh username@bingsuns.cc.binghamton.edu
- 3. Connect using this address and format, you will use your PODS ID for username
  - a. \$ ssh username@csvb-access.pods.bu.int
- 4. Use your PODS Password to login
- 5. You can then SSH to your VM using it's IP address that you can get from the "Summary" page in the vSphere-Client.
  - a. ssh csvb@192.168.0.x or ssh root@192.168.0.x
  - b. Once logged in, **CHANGE THE PASSWORD** for both the root and csvb accounts.

## Connect to the VM Using TeamViewer

- 1. To use TeamViewer, we need to have a TeamViewer Account.
- 2. Check if TeamViewer is installed: \$ which teamviewer
  - If TeamViewer is installed, please skip to "Setup the TeamViewer"
  - b. If TeamViewer is not installed, please start the installation process.
- 3. Download the TeamViewer installation file from the <u>Teamviewer Website</u>. From the terminal, we can issue the wget command to download the installation file.
  - \$ wget https://download.teamviewer.com/download/teamviewer\_i386.deb
- Start the installation.
  - a. \$ sudo dpkg -i teamviewer\_i386.deb
  - b. If there are missing dependencies, please issue the following command.
    - \$ sudo apt-get install -f
- 5. Setup the TeamViewer: **\$ teamviewer setup.**
- 6. Accept the licence agreement.
- 7. Enter the Login credentials for your TeamViewer Account.
- 8. Confirm the assignment.
- 9. The assigned device will appear in Computer & Contacts on the local TeamViewer.

## Create a child process for a specific task

- man 2 fork
- man exec
- man 2 wait