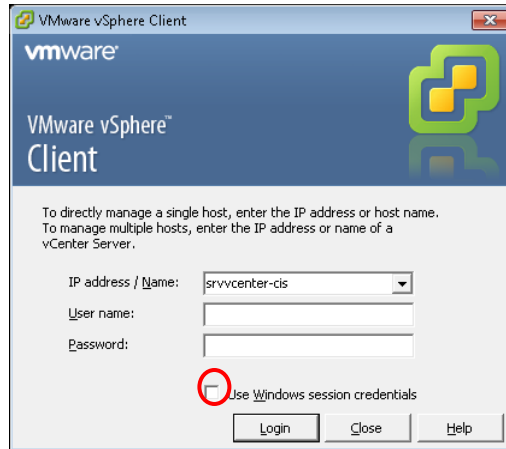# CIS133 – Installation Lab #1 - DESKTOP CLIENT OpenSUSE Install.

CIS133 – Installation Lab #1 - DESKTOP CLIENT
OpenSUSE Install.

Before beginning the installation, create a virtual machine in which you will install the operating system.

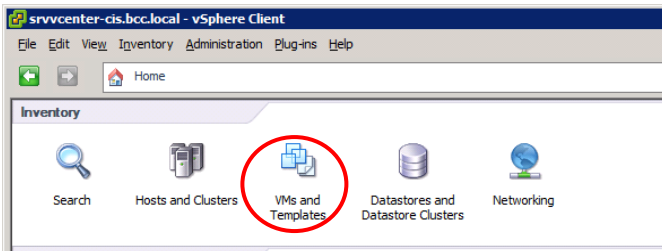1) Open the VMware vSphere Client. Be patient, it may take awhile to open. Use Windows session credentials to Login.

The Ip address / Name value should be: srvvcenter-cis

2) At the Certificate Warning screen, Click Ignore to continue using the current SSL certificate.

3) From the Home / Inventory screen, select "VMs and Templates".

(If you don't see the above screen after logging in, click on the Home Icon in the address bar.)

4) In the left pane navigate to the CIS133 folder and **select the folder within that folder that was assigned to you**.

5) Right-click on the folder and select "**New Virtual Machine**".

6) Select **Typical** on the Configuration page and click **Next**.

7) **Assign a name to your Virtual Machine**. Use your initials followed by 133-SuseServer. (i.e,: if your initials are JMT then your virtual machine's name would be: JMT-133-SuseServer.

8) Click **Next**

9) Select **K Building** as the Host/Cluster and click **Next.**

10) Select *EQL-CIS-Volume1* for the destination storage and click **Next**

11) Select **Linux** as the Guest Operating System and use the drop down menu to select **SUSE OpenSuse (64 bit) – it's towards the bottom of the list – after the last Debian.**

12) Click **Next.**

13) Accept the Network Connections presented – click **Next.**

14) The next screen requires that you configure the virtual disk size. Change the Virtual Disk size to **30** GB, **Change the provision to Thin Provision** and then click on **Next.**

15) Review the Virtual machine settings. If necessary, make changes otherwise click **Finish.**

Install OpenSuse Leap 42.1

1) **Right-Click** on the **Virtual Machine** that you just created and select **Power/ Power On**

2) **Right-Click** on the **Virtual Machine** again and select **Open Console**

3) Click on the **cd icon**, then select **CD/DVD drive 1** and choose **Connect to ISO image on a datastore**
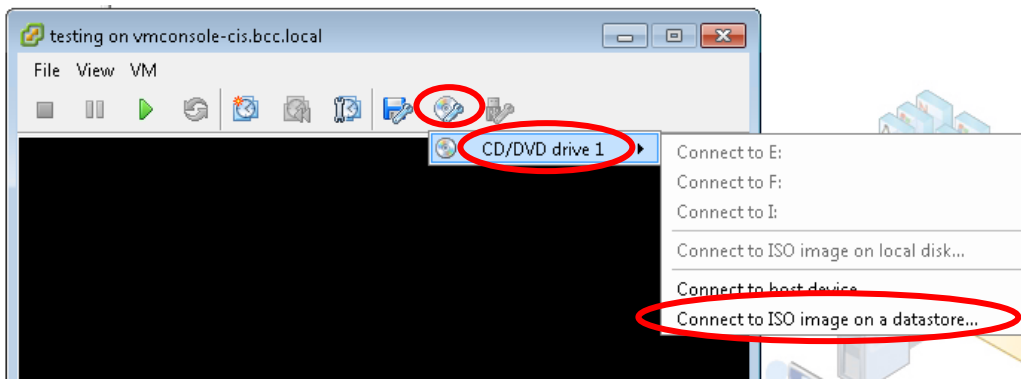

4) Browse to the appropriate ISO file by following the path:

EQL-CIS-Images \ Image Files \ Linux\ OpenSuse\   Widen the name column so that you can read the full name of the folder and browse to the appropriate folder and within the folder select the openSuse-Leap-42.1-NET-x86_64.ISO and click on **Ok.**

5) You will eventually see a Symantec Ghost Window…. This is not what we want but it will be what you get. To get past this screen,
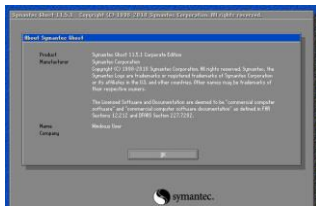
- Ensure the ISO file is still selected.   If it's not selected, re-select it. If necessary, refer to step 3 for instructions.
- With the ISO selected, "Send Ctrl-Alt-Del" from the VM / Guest Menu
-
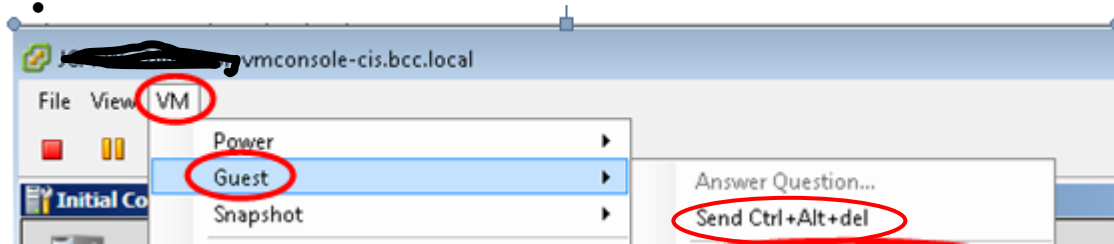
6) You will eventually see a see a window like the one displayed below. Click inside the window and use the down arrow key to move to **Installation** and **press Enter.**
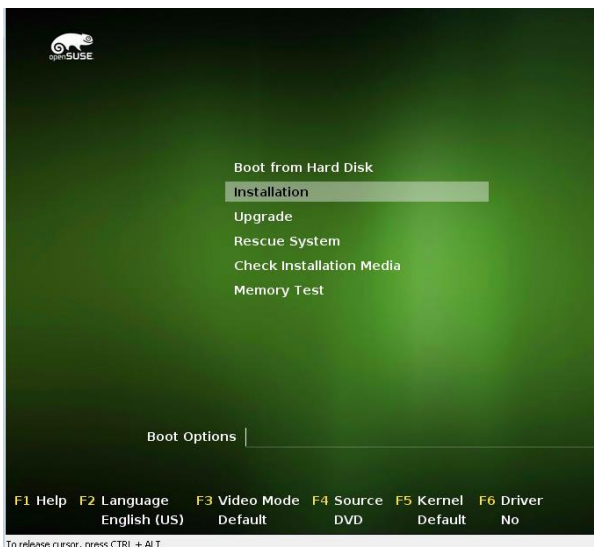
NOTE: If your mouse gets 'locked' in the window, release it by holding the Ctrl and the Alt keys.

7) Accept English as the language and keyboard layout and, if desired, read through the license agreement (yeah, right!) and then click **Next.**

8) At the *Installation Options* screen, add a check mark in the box near "**Add Online Repositories Before Installation"** and click on **Next.**

9) At the *Suggested Partitioning* screen:
- Select **Expert Partitioner**
- Right-click on the last partion **/dev/sda3 s**elect **Delete** and select **Yes** to confirm the deletion .
- Right-click on **/dev/sda2** partition. Select **Resize**, select **Custom Size** and enter **20 GB** as the size and click **OK**
- Right-click on **/dev/sda2** partition. Select **Edit**. Change the File system to **Ext4** and make sure the Mounting option is to **/**. Click **Finish**
- Expand the **Hard Disks** in the left pane and click <u>on</u> **sda**. Select **Add**.
- Accept Primary partition as the partition type and click **Next**
- Accept the size presented by clicking **Next**
- Accept **Data and ISV Applications** as the Role type and click **Next.**
- Change the File system to **Ext4** and make sure the Mounting option is to **/home**. Click **Finish**
- Click **Accept**
- This should bring you back to the *Suggested Partitioning* screen. Confirm the following settings and then click **Next.**
  - Create swap volume /dev/sda1(2.01GB)
  - Create root volume /dev/sda2 (20 GB) with ext4
  - Create volume /dev/sda3 (7.99 GB) for /home with ext4

10) At the *Clock and Time Zone* screen, confirm that the *Region* is set to **USA** and the *Time Zone* is set to **Eastern (New York).** After you confirm that all is appropriately configured, click **Next.**

11) Click **Next** to accept the *List of Online Repositories. (*If the *Main Repository License Agreement* screen is presented, click **Next** to accept it.)

12) At the *Desktop Selection* screen, select **Kde Desktop** and click **Next.**

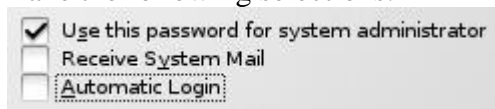13) At the *Create New User* screen fill in the following:
   User's Full Name: cis133 student
   Username: cis133
   Password: novell
   Confirm Password: novell

   Make the following selections:

   ✔ Use this password for system administrator
   ☐ Receive System Mail
   ☐ Automatic Login

   Leave the authentication and password encryption methods as-is and click **Next.**

14) Click **Yes** at the message indicating that the password is too simple.

15) At the *Installation Settings* screen, click <u>on</u> **Software**:

   Under Graphical Environment, select: **Gnome Desktop Environment and select XFCE Desktop Environment.**
   Under Development, select: **C/C++** and **Linux Kernel Development** (You'll have to scroll down for the Development Section)
   Click **OK**

16) Click **Install**

17) At the *Confirm Installation* prompt, click **Install.**

18) The installer will now install OpenSUSE.   Several progress bars will come and go and you'll eventually see an Installation Slideshow.
During the installation you'll notice 3 tabs along the top of the screen: Slide Show, Details, and Release Notes. The Slide Show is where the installation will place you, by default. If you'd like a more detailed view of what's happening, select the Details tab.   (about 20 minutes?)

19) When the installation is complete, the computer will automatically reboot. The system will run a one-time automatic configuration of your hardware and network connection after which time you'll have the opportunity to login. Login using the cis133 student account.

CHANGE THE DESKTOP RESOLUTION
- Click on the **Application Menu / Settings** /**Configure Desktop**
- Select "**Display and Monitor**" within the Hardware section of the screen.
- Scroll down on this screen to view the Resolution 'gauge'.   Change the resolution. Try 1024x768. The overall objective is to select a resolution that will work within the web browser so you may want to set this and then open the machine in the web browser to ensure you're able to click on items in the lower portion of the screen.
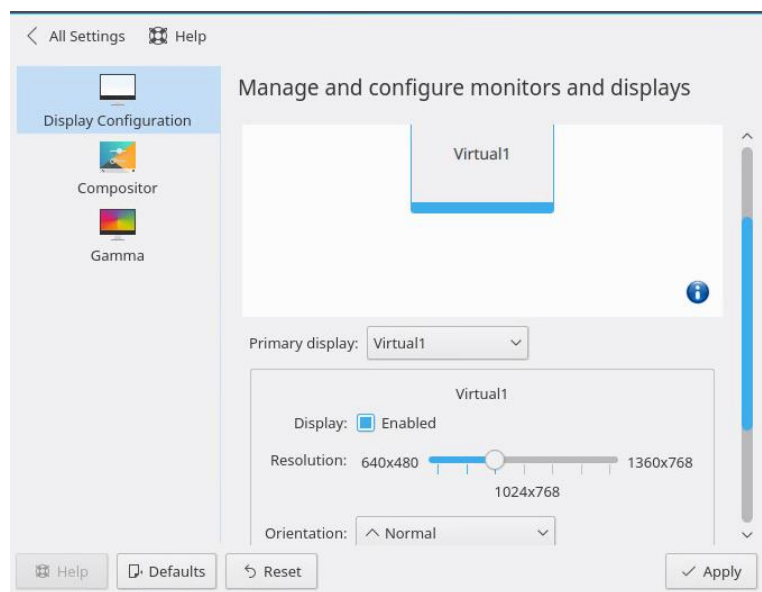
Note:
If, after changing the resolution on campus, you can't access the application menu via the web client at home, try the following:
- Right-click on the desktop
- Select Add panel / Default Panel
  - This will add the panel that you currently have along the bottom of the screen to the top of the screen giving you access to the application menu and allowing you to change the resolution.

RENAME HOST

Since we selected the automatic configuration during the installation, your virtual operating system was assigned a randomly generated name.   To change the system's name:

Click on the **Application Menu**
- Select **Settings** / **Yast**
- When prompted for authentication, use the root user's (administrative) password and click OKnovell.
- At the Yast screen, select:
  - **System** from the left pane and then select
  - **Network Settings** from the right pane.
  - Select the **Hostname/DNS** tab along the top of the screen and enter the following:
    - **Hostname:** *YourInitials*-SuseServer
    - **Domain Name:** cis133.bcc
    - Uncheck **Change Hostname via DHCP**.
  - **Click OK**