

Group Name: _____
 Group Members: _____

Group Number: _____
 Section: _____
 Date: _____

Laboratory Activity 1

Objective:

The activity familiarizes the student on how to install OpenFiler as the storage system for the network. The activity uses a virtual machine in deploying OpenFiler on VMware workstation/player.

Materials/Equipment/Setup needed:

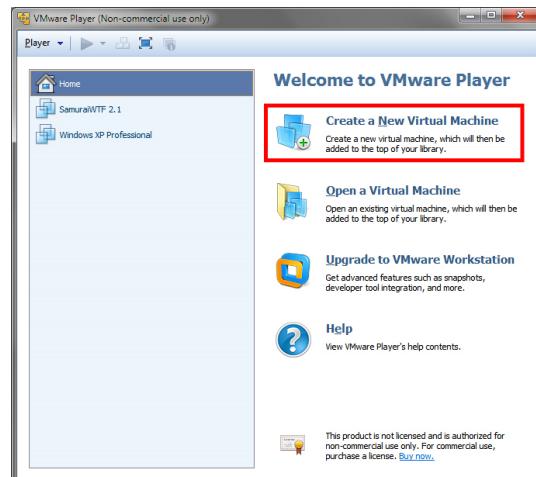
- Desktop PC with 2GB RAM and Windows OS
- VMWare Workstation/Player
- OpenFiler ISO file
- Network connection

OpenFiler system requirements:

- x86 or x64 based computer with at least 512MB RAM and 1GB storage for the OS image
- At least one supported network interface card
- A CD-ROM or DVD-ROM drive (for local installation)
- A supported disk controller with data drives attached

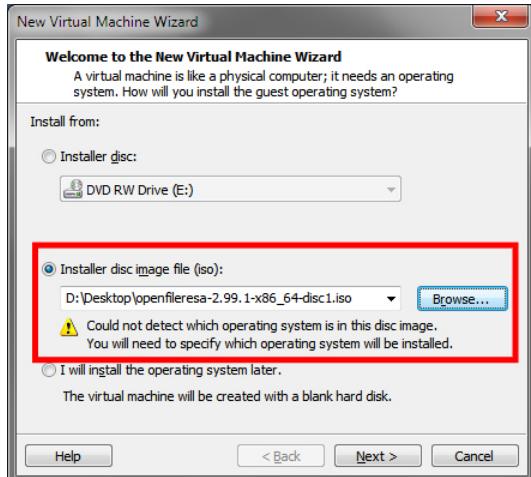
Procedures:

1. Open VMWare Workstation/Player.

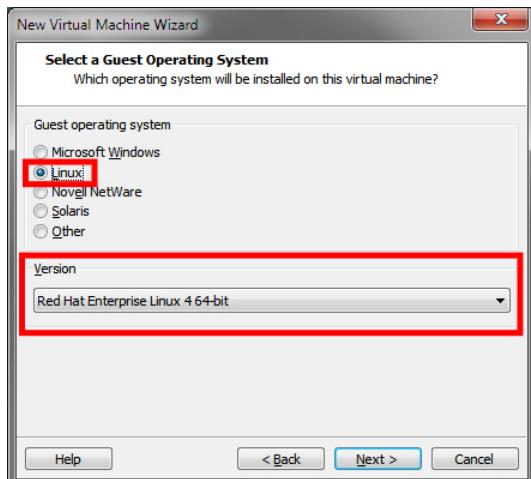


2. Select Create a New Virtual Machine.

3. Select Installer disc image file (iso) and locate the OpenFiler iso file.

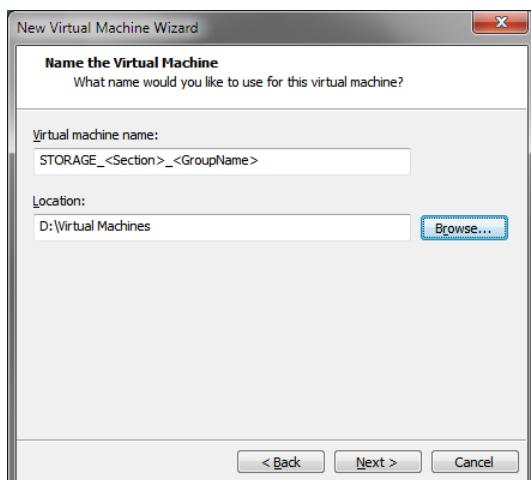


4. Set the Guest operating system to Linux and the version to Red Hat Enterprise Linux 4 64-bit.

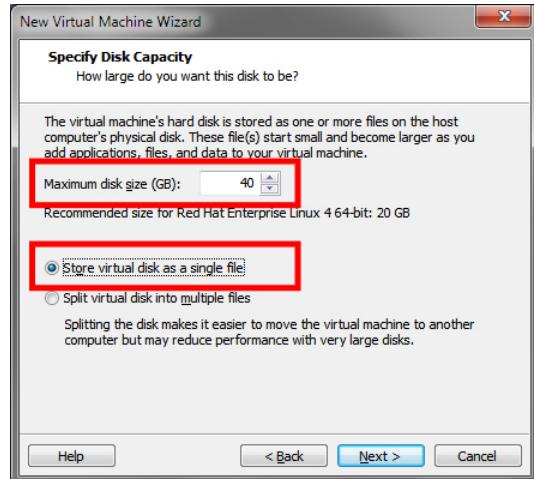


**5. Name the virtual machine using the following convention:
STORAGE_<SECTION>_<GROUPNAME>**

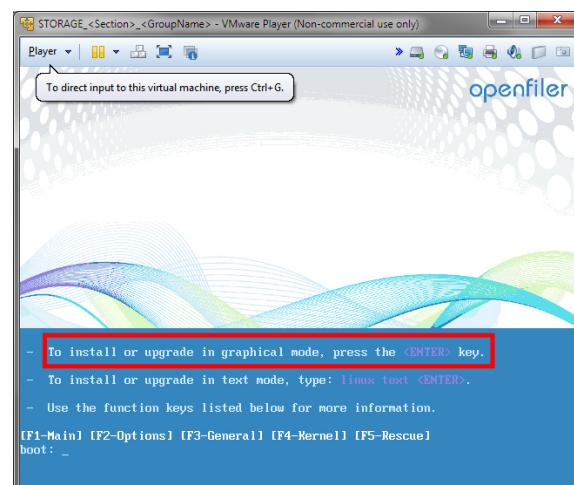
Use the default path for the location.



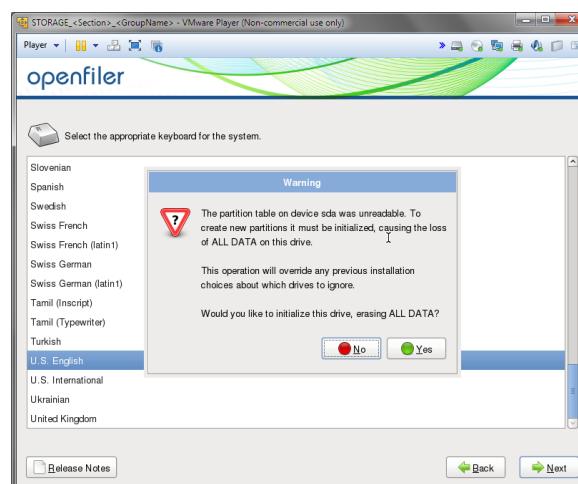
6. Set the maximum disk size to 40GB and select Store virtual disk as a single file.



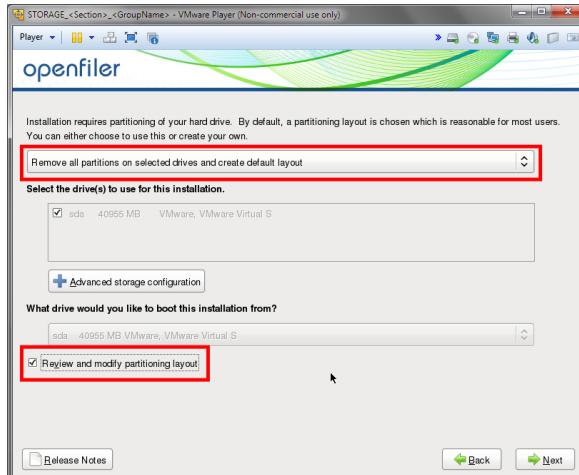
7. Boot the virtual machine you just created. Once you see the page shown in the image on the right, press the ENTER button. Make sure you are using direct input to the virtual machine.



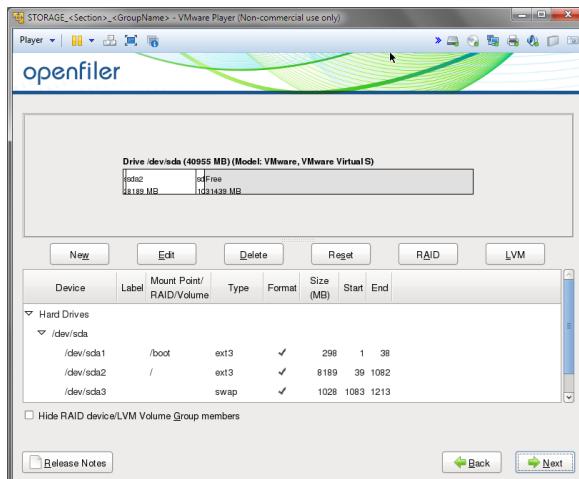
8. Start the OpenFiler installation by setting the keyboard language. If a warning message appears when you click Next, select Yes.



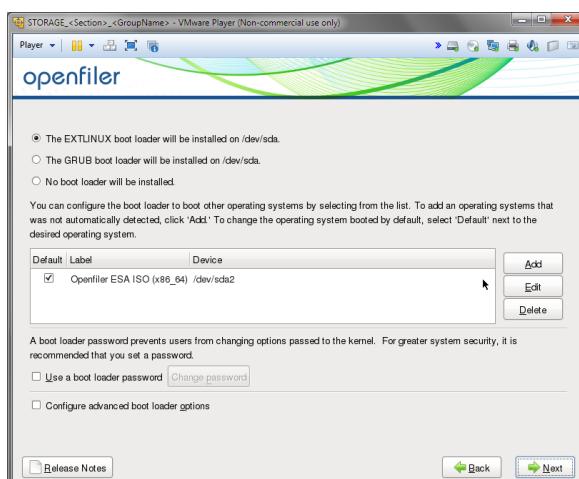
- 9.** Select Remove all partitions on selected drives and create default layout and check Review and modify partitioning layout. Select Yes if a warning message appears after.



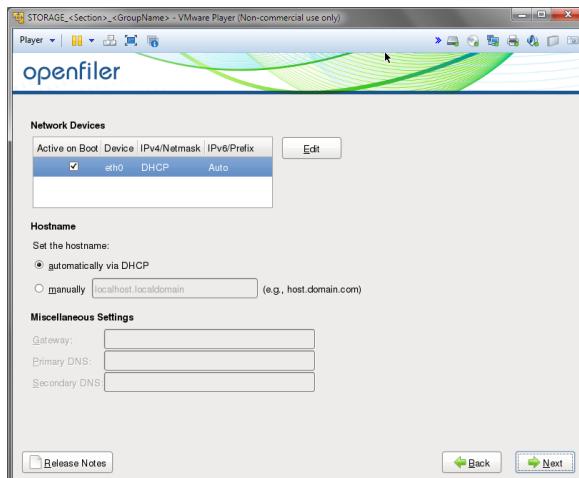
- 10.** OpenFiler creates the partition by default. Do not modify anything and just proceed to the next step.



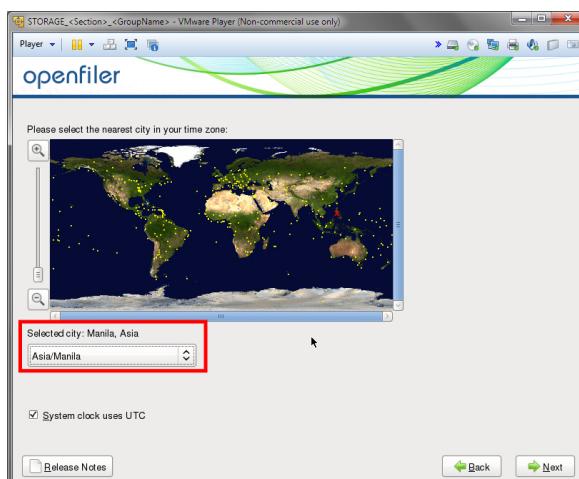
- 11.** Use the default settings when configuring the boot loader.



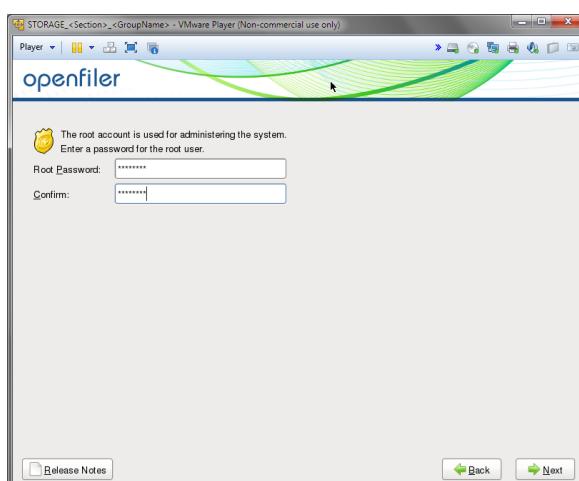
12. Use the default settings as well for the network devices.



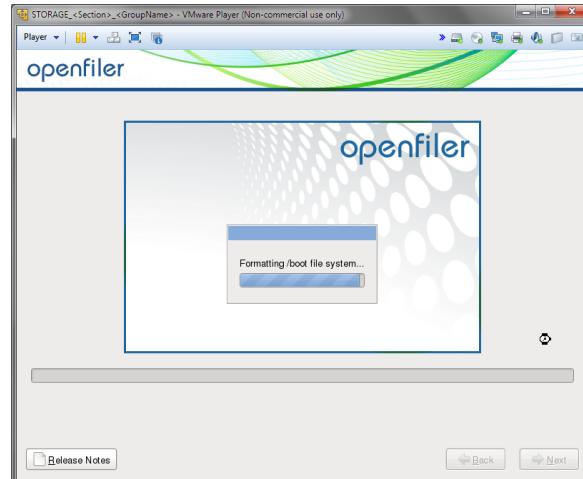
13. Set the time zone to Asia/Manila.



14. Set your default password. It is recommended that you use password, but any password will do as long as it's easy to remember.



15. Complete the installation process.
Once installing is done, click **Reboot**.



16. When the virtual machine has finished rebooting, take note of the IP address for the Web administration GUI.

Note: Make sure the virtual machine network is not bridged. If it is, remove the bridge and reset the virtual machine.

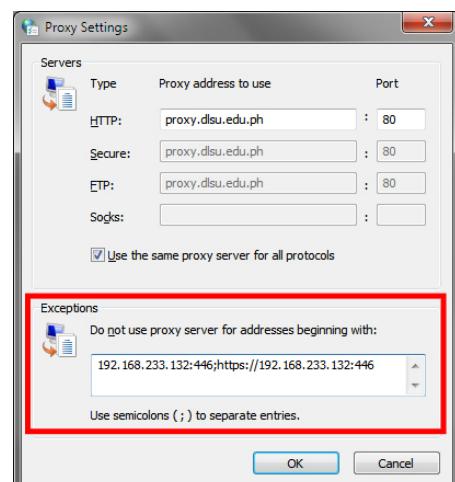
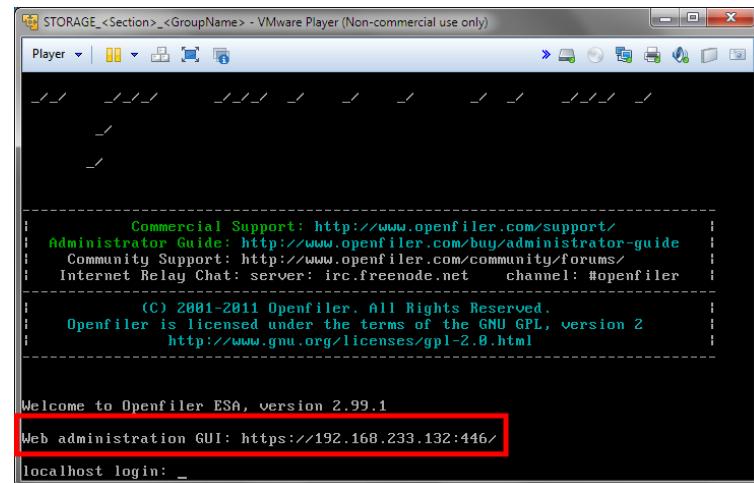
17. Return to your main machine by selecting the **CTRL + ALT** buttons.

If you are using the DLSU proxy, you need to add the IP address to the list of exceptions. Open **Internet Options** using one of the following methods:

Control Panel > Internet Options
or

Start Menu > search for Internet Options

Go to **LAN Settings**, check **Bypass proxy server for local addresses** then click **Advanced**. Under exceptions, include the IP address without the protocol first then the same IP address but using **https://** this time. The addresses must be separated by a



semicolon (;). Do not include any trailing slashes (/) in the addresses. Select **OK** on all windows to finish configuration. Check if the addresses are still included in the exception list by opening the Internet Options again. Sometimes the addresses get removed so you need to double check.

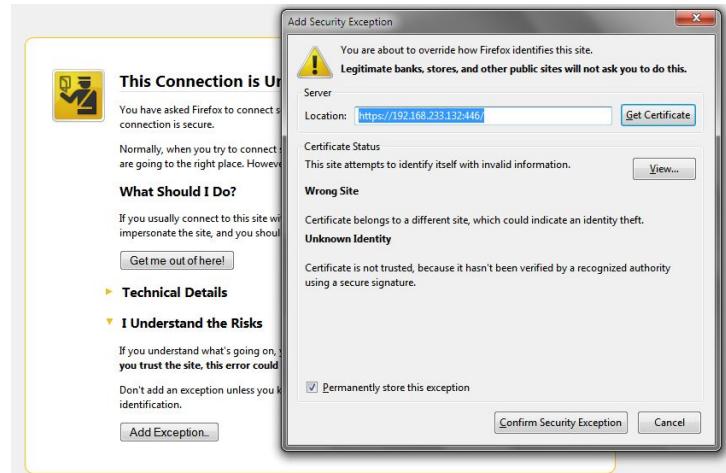
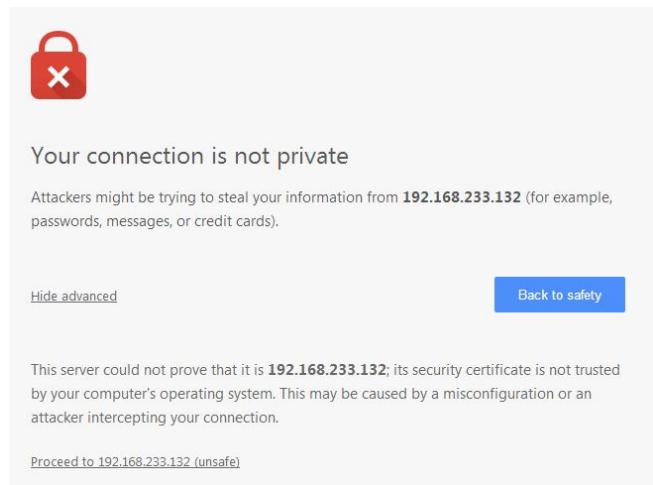
18. Open a browser, preferable Google Chrome or Mozilla Firefox.

For Google Chrome, open the IP address of the OpenFiler Web administration GUI. You should see a warning page stating that your connection is not private. Click on **Advanced** then **Proceed to <ADDRESS> (not safe)**.

Note: You must use https:// when opening the address.

18. For Mozilla Firefox, open the IP address of the OpenFiler Web administration GUI. You should see a warning page stating that your connection is untrusted. Select **I understand the risks** then **Add exception** then **Confirm Security Exception** on the pop-up window.

Note: You must use https:// when opening the address.



19. If everything is properly configured, you should now see the login page of OpenFiler. The login credentials are:

Username: openfiler
Password: the password that you set during installation

