

Group Name:	Group Number:	
Group Members:	Section:	
	Date:	

#### **Laboratory Activity 2**

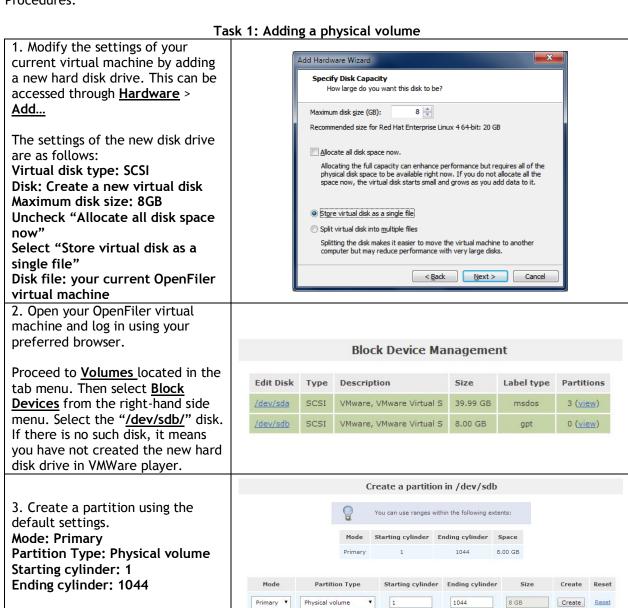
### Objective:

The activity familiarizes the student on creating volumes in OpenFiler and sharing the volumes on the network. Volume sharing over the network uses the Common Internet File System (CIFS) protocol. The activity uses a virtual machine in deploying OpenFiler on VMware workstation.

# Materials/Equipment/Setup needed:

- Desktop PC with 2GB RAM and Windows OS
- VMWare Workstation/Player
- OpenFiler virtual machine from previous laboratory activity
- Network connection

#### Procedures:

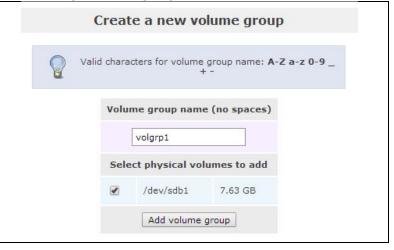




Task 2: Creating a volume group

1. Select the <u>Volume Groups</u> from the right-hand side menu.

Create a new volume group using the following settings:
Volume group name: volgrp1
physical volumes to add:



Task 3: Creating a volume

1. Select <u>Add Volume</u> from the right-hand side menu.

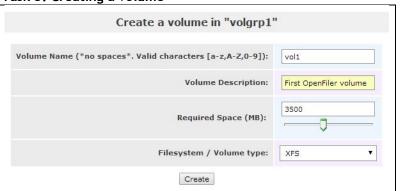
Create a new volume using the following settings:

Volume Name: vol1
Volume Description: First

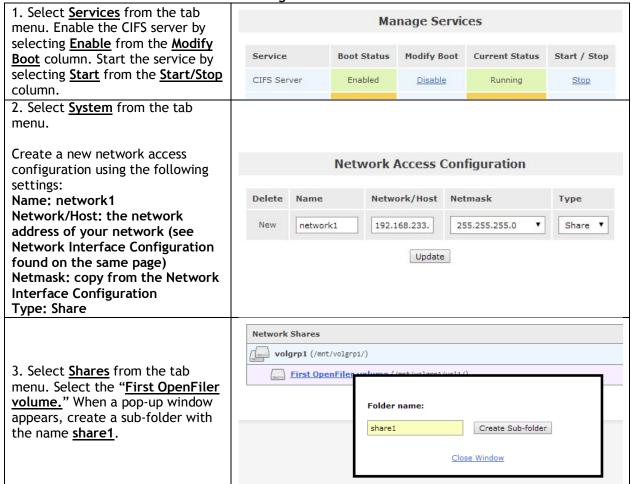
OpenFiler volume

/dev/sdb1

Required Space (MB): 3500 Filesystem/Volume type: XFS



Task 4: Creating the volume share via CIFS





4. Select the newly created <u>share1</u> then select <u>Make Share</u> on the pop-up window.

Set the <u>Share Access Control</u> <u>Mode</u> to <u>Public Guest Access</u> then <u>Update</u>.

Modify the Host access
configuration using the following

settings: SMB/CIFS: Check restart services,

select RW NFS: No HTTP(S): No FTP: No Rsync: No



Task 5: Accessing the share folder

1. Open any Windows Explorer window or open <u>Run</u> by pressing <u>■ (windows button) + R.</u>

Type \\[your OpenFiler IP address] and the share folder you created should now be accessible.



Task 6: Create your own share volume

Using the remaining partition in the volume, try to create a volume share on the network. List down the steps you did to create the share.

# Guide questions for the laboratory report:

- 1. What are the steps/stages involved in creating a volume? How are the physical volume, volume group and volume interconnected?
- 2. Is it possible to create a volume group with several disks? Why?
- 3. What is the Common Internet File System protocol or CIFS? What is it for?
- 4. What is the difference of sharing the volume on OpenFiler than sharing on a Windows machine? What are the advantages and disadvantage?
- 5. When will you recommend using a SAN/NAS than using file sharing using Windows or Linux?