# Installing and Configuring OpenFiler

By Justin Mah

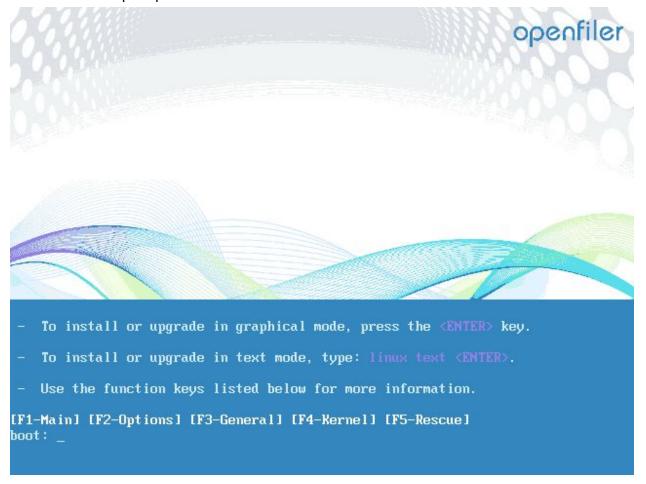
## Requirements

- VMware Workstation
- Copy of OpenFiler

### Instructions

Know how to create a virtual machine? If not please see the tutorial on how to create a virtual machine before proceeding.

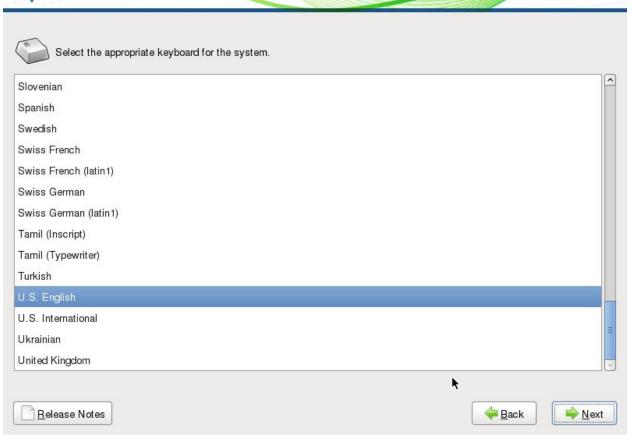
- 1) Open VMWare and create a custom virtual machine with the following specifications
  - Guest OS set as FreeBSD 11
  - 2 GB RAM
  - 2 HDD (1 60 GB (C:\) 1 (size depends on storage needs) (SCSI) )
  - 2 CPU with 1 core each
  - LSI Logic
  - Network setting depends on what type of environment (if managing from host leave settings at NAT. If managing from another virtual machine configure it within that subnet and set the VM's NIC to the appropriate VMNet)
- 2) Attach the OpenFiler ISO to the virtual machine and power on the virtual machine
- 3) Push enter when prompted



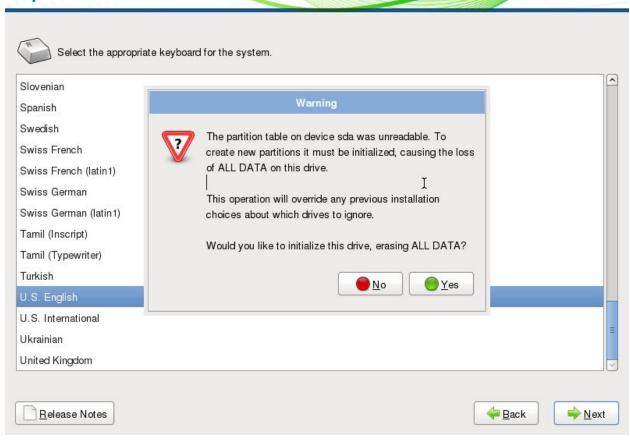
### 4) Click next



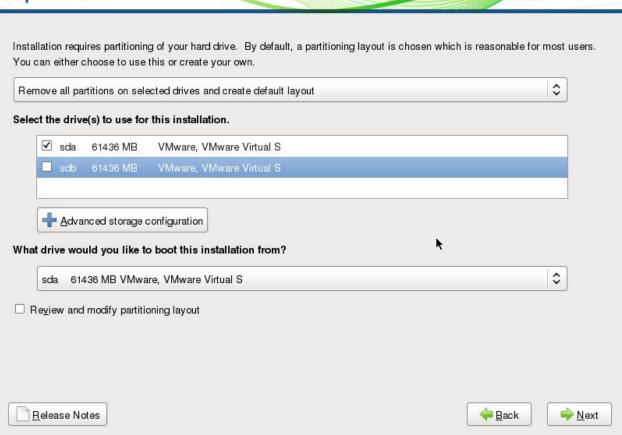
5) Select language (in this case US English)



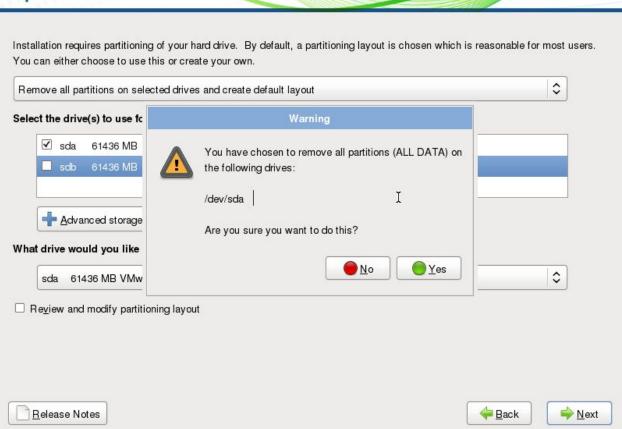
### 6) Click yes when prompted



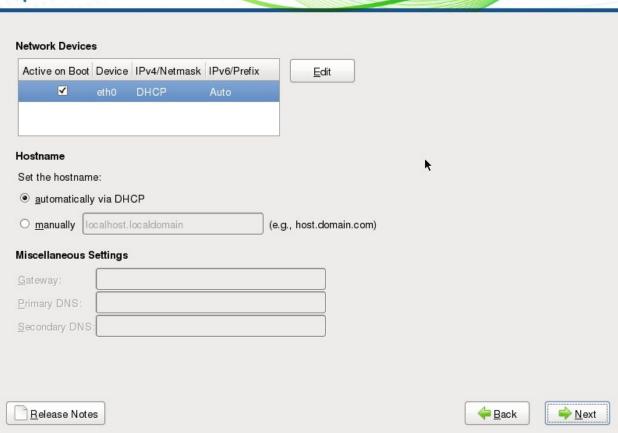
7) Deselect sdb (this will be the storage drive) click next



#### 8) Click next



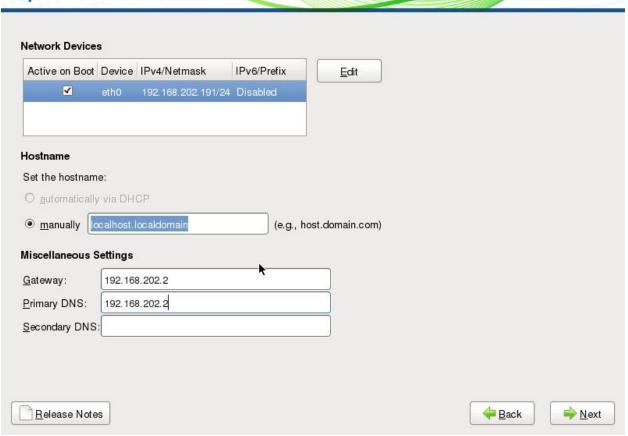
### 9) Click edit

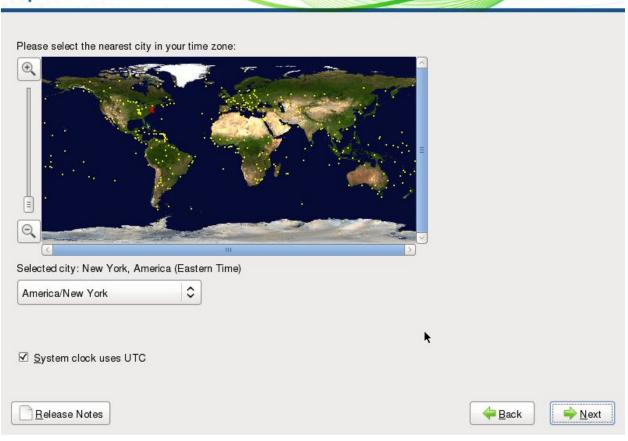


10) Select manual configuration and set the IP address and subnet mask within the range of your desired network

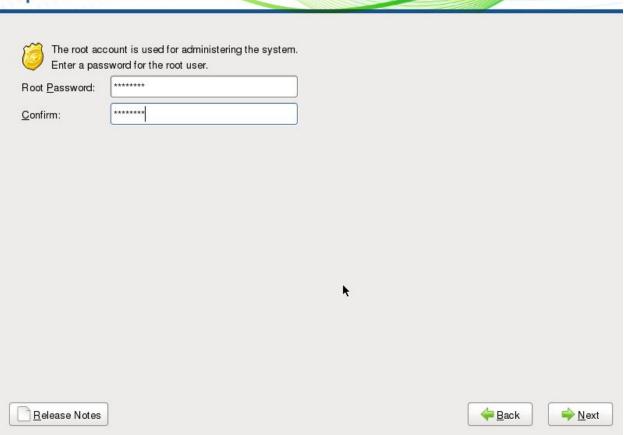


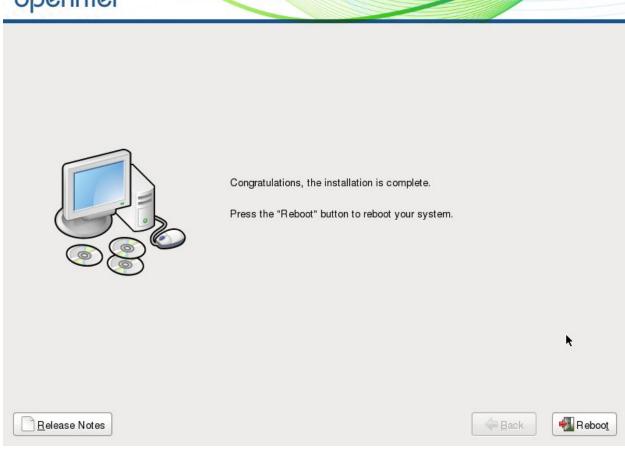
### 11) Set the Default Gateway and DNS



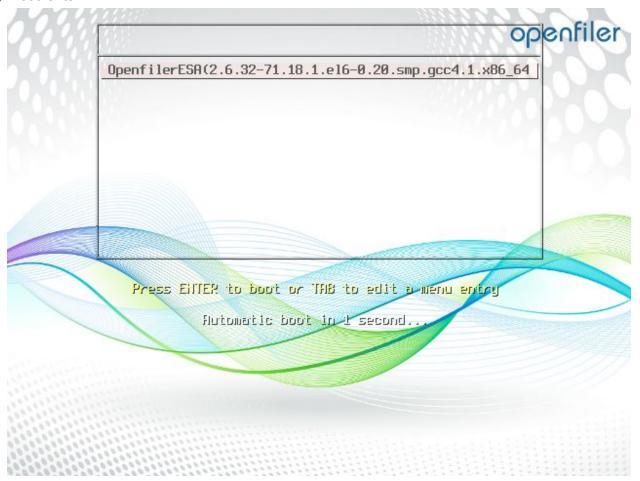


### 13) Set the root password





### 15) Press enter

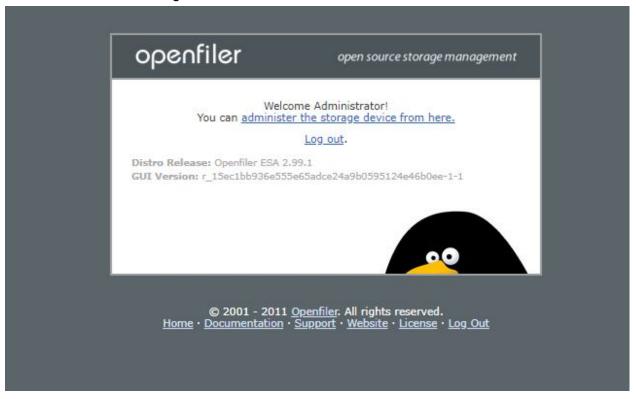


- 16) On controlling host/virtual machine open a web browser and type in the search bar the https://ip address of the OpenFiler Server followed by a :446
- 17) On warning page click proceed to web page (not recommended/unsafe)

18) Enter openfiler as the username and password as the password



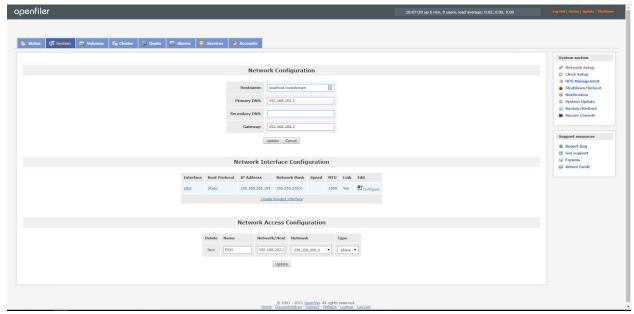
19) Click "administer the storage device from here"



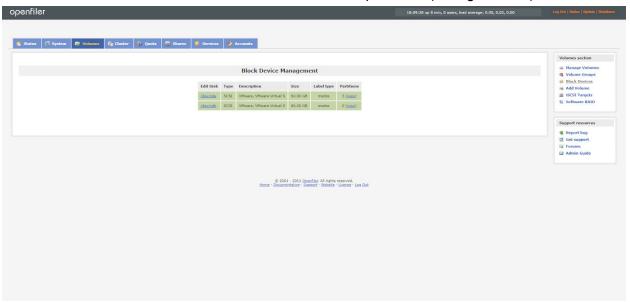
20) Click system



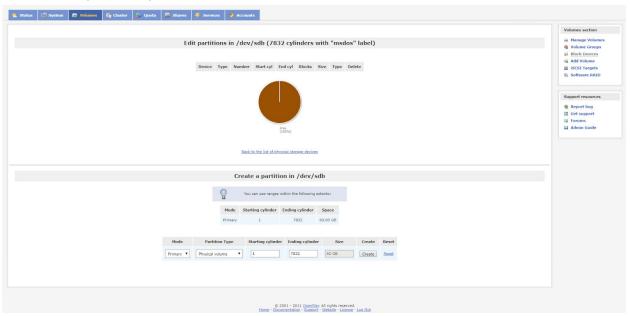
21) Under Network Access Configuration set the name, IP address and subnet mask to the appropriate subnet, and type to share. Click update



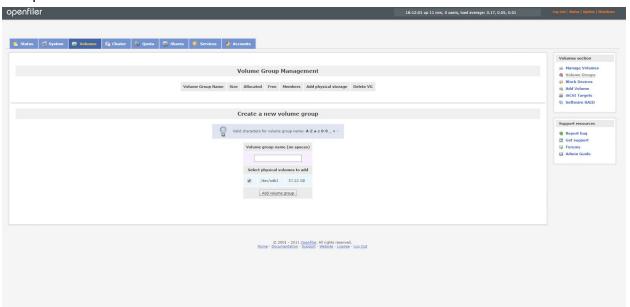
22) Click Volumes > Block Devices > select the disk with no partitions (storage device)



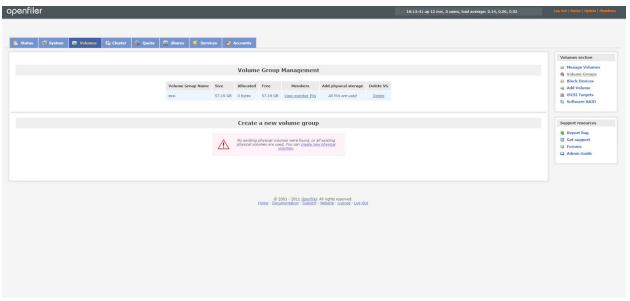
23) Set partition type to Physical Volume > click create



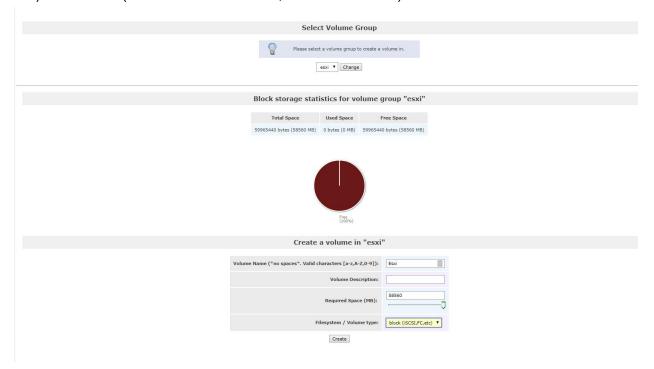
## 24) Click volume group > select the physical volume created in step 23 > click Add Volume Group



#### 25) Click add volume



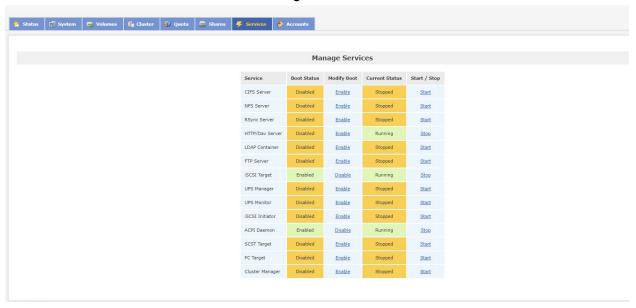
26) Set Volume Name, Required Space (as needed) and File System to Block (iSCSI, FC, etc.) click create (note: if it doesn't create, restart the server)



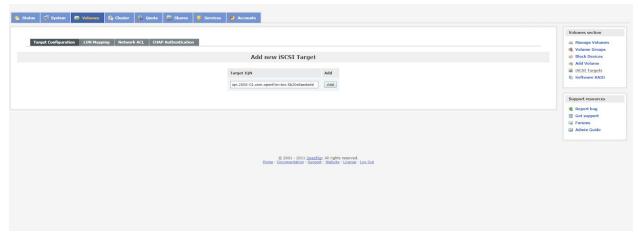
The screen should look like this afterwards



#### 27) Click services and enable and start iSCSI target

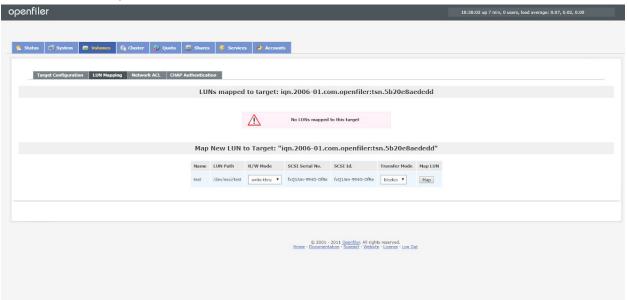


### 28) Click volumes > iSCSI targets > click Add

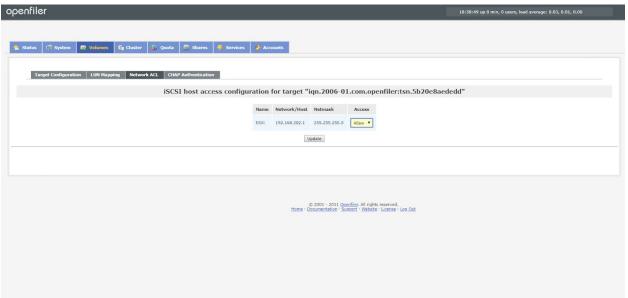


Note: remember the target IQN, this will be needed for attaching OpenFiler as an iSCSI target

#### 29) Click LUN mapping > accept defaults > click Map



#### 30) Click Network ACL > set Access to Allow > Click Update



#### References

http://techhead.co/how-to-configure-openfiler-v23-iscsi-storage-for-use-with-vmware-esx/

https://www.thegeekdiary.com/vcs-cluster-6-0-lab-using-vmware-workstation-installing-openfiler/