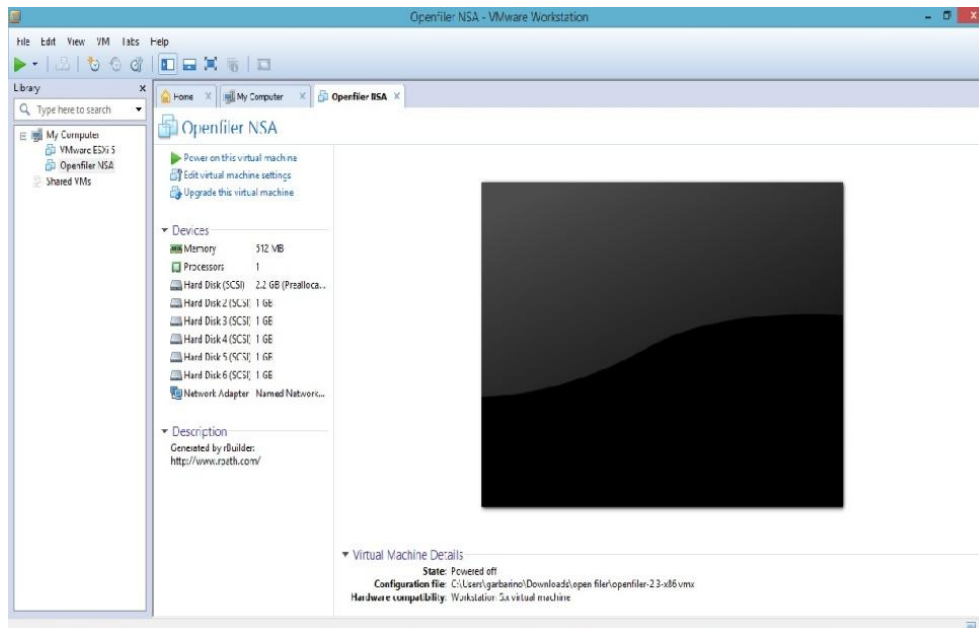


Ejercicio 2:

Configurar el almacenamiento disponible para los usuarios.

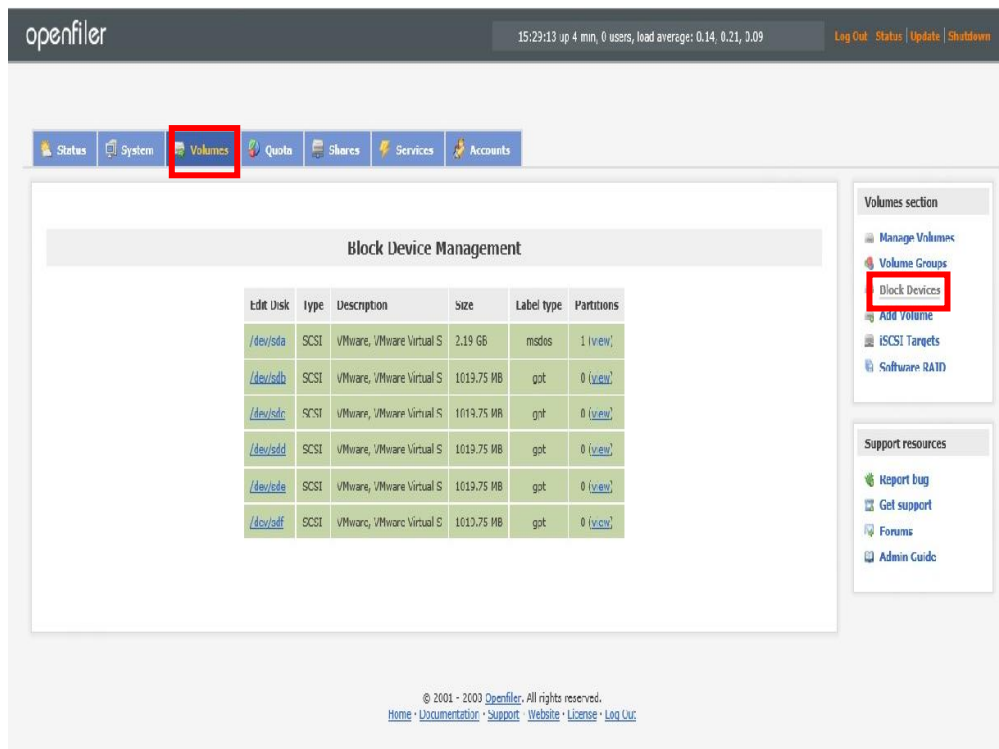
Requerimientos:

- Definir 5 discos virtuales (no importa el tamaño) para la máquina virtual del openfiler



Configuraciones:

- Asignar los 5 discos creados al openfiler como miembros de un RAID



openfiler
16:02:53 up 3 min, 0 users, load average: 0.33 0.20 0.08
Log Out Status Update Shutdown

Status System **Volumes** Quota Shares Services Accounts

Volume Group Management

Volume Group Name	Size	Allocated	Free	Members	Add physical storage	Delete VG
<div>Create a new volume group</div> <div> No existing physical volumes were found, or all existing physical volumes are used. You can create new physical volumes. </div>						

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Status System Volumes **Quota** Shares Services Accounts

Edit partitions in /dev/sdb (130 cylinders with "gpt" label)

Device	Type	Number	Start cyl	End cyl	Blocks	Size	Type	Delete
/dev/sdb1	Linux RAID Array Member (zxt4)	1	1	130	1043,84	1018,73 MB	Primary	Delete

edh1 (100%)

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Free
(100%)

[Back to the list of physical storage devices](#)

Create a partition in /dev/sdb

You can use ranges within the following extents:

Mode	Starting cylinder	Ending cylinder	Space
Primary	1	130	1019.75 MB

Mode	Partition Type	Starting cylinder	Ending cylinder	Size	Create	Reset
Primary ▾	RAID array member ▾	1	130	1019.75 MB	Create	Reset

<https://192.168.37.120:446/admin/volumes/editpartitions.html>

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Volume Group Management

Volume Group Name	Size	Allocated	Free	Members	Add physical storage	Delete VG
-------------------	------	-----------	------	---------	----------------------	-----------

Create a new volume group

Valid characters for volume group name: A-Z a-z 0-4 _ + -

Volume group name (no spaces)

iscsiraid5

Select physical volumes to add

<input checked="" type="checkbox"/>	/dev/md0	2.08 GB
-------------------------------------	----------	---------

Add volume group

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- Definir un RAID 5 conformado por 4 discos. El restante no deberá ser asignado.

openfiler 15:12:02 up 12 min, 0 users, load average: 0.27, 0.18, 0.10 Log Out Status Update Shutdown

Status System Volumes Quote Shares Services Accounts

Software RAID Management

Array	Level	Array Size	Device Size	State	Synchronization	Manage	Add	Used In	Delete
/dev/md0	RAID-5	2.58 GB	1015.52 MB	Clean & degraded & resyncing	Progressing (14%)	View members	Add members	Unknown / unused	Delete

Create a new RAID array

Please note that RAID-0 arrays need atleast 2 member devices;
RAID-1 array members need to be multiples of 2;
RAID-5 arrays need atleast 3 member devices;
RAID-6 arrays need atleast 4 member devices;
RAID-10 arrays need atleast 4 member devices and need to be multiples of 2.

chunk size

Select RAID array type: RAID-0 (striped) Select chunk size: 64 KB

Select RAID devices to add


Member devices of array "/dev/md0": RAID-5

Number	Member	Device	Faulty	Active	Synchronized	Spare	Remove
0	0	/dev/sdb1	NO	YES	YES	NO	Member
1	1	/dev/sdc1	NO	YES	YES	NO	Member
2	2	/dev/sdd1	NO	YES	YES	NO	Member
4	3	/dev/sde1	NO	NO	NO	YES	Pending

[Close Window](#)

ivo Edición Ver Favoritos Herramientas Ayuda

Software RAID Management

 No existing RAID arrays were found.

Create a new RAID array

Please note that RAID-0 arrays need atleast 2 member devices;
RAID-1 array members need to be multiples of 2;
RAID-5 arrays need atleast 3 member devices;
RAID-6 arrays need atleast 4 member devices;
RAID-10 arrays need atleast 4 member devices and need to be multiples of 2.

chunk size

Select RAID array type: RAID-5 (parity) Select chunk size: 64 KB

Select RAID devices to add

X	Device	Size	Member	Spare
<input checked="" type="checkbox"/>	/dev/sdb1	1018.73 MB	<input checked="" type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/>	/dev/sdc1	1018.73 MB	<input checked="" type="radio"/>	<input type="radio"/>
<input checked="" type="checkbox"/>	/dev/sdd1	1018.73 MB	<input checked="" type="radio"/>	<input type="radio"/>

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Select Volume Group

Please select a volume group to create a volume in:

iscsiraid5

Change

Block storage statistics for volume group "iscsiraid5"

Total Space	Used Space	Free Space
3112960 bytes (3040 MB)	0 bytes (0 MB)	3112960 bytes (3040 MB)

Free

Volumes section

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Hostname: localhost.localdomain

Primary DNS: 192.168.37.2

Secondary DNS:

Gateway: DHCP (preferred)

Update Cancel

Network Interface Configuration

Interface	Boot Protocol	IP Address	Network Mask	Speed	MTU	Link	Edit
eth0	DHCP	192.168.37.120	255.255.255.0	1500	Yes	Configure	

Create unused interface

Network Access Configuration

Delete	Name	Network/Host	Network Mask	Type
<input type="checkbox"/>	red5	192.168.37.129	255.255.255.255	Share

Non

0.0.0.0

Share

Update

HA Cluster Setup

Clock Setup

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Admin Guide

Browser address bar: <https://192.168.88.129/4b/admin/> | Error de certi... | Services Section


Navigation: Archivo | Edición | Ver | Favoritos | Herramientas | Ayuda

Menu: Status | System | Volumes | Quota | Shares | **Services** | Accounts

Manage Services

Service Name	Status	Modification
SMB / CIFS server	Enabled	Disable
NFSv3 server	Enabled	Disable
HTTP / WebDAV server	Enabled	Disable
FTP server	Enabled	Disable
iSCSI target server	Enabled	Disable
Rsync server	Enabled	Disable
UPS server	Disabled	Enable
LDAP server	Enabled	Disable
ACHL daemon	Enabled	Disable
iSCSI initiator	Enabled	Disable

Total Space	Used Space	Free Space
3112960 bytes (3040 MB)	0 bytes (0 MB)	3112960 bytes (3040 MB)



Free (100%)

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Create a volume in "iscsiraid5"

Volume Name ("no spaces", Valid characters [a-z,A-Z,0-9]):

Volume Description:

Required Space (MB):

Filesystem / Volume type: ISCSI

[Create](#)

Select Volume Group

Please select a volume group to display.

iscsiraid5
Change

Volumes in volume group "iscsiraid5" (3040 MB)

disco-raid5
(100%)

Volume name	Volume description	Volume size	File system type	File system size	FS used space	FS free space	Delete	Properties	Snapshots
disco-raid5	disco-raid5	3040 MB	iSCSI	Not applicable	Not applicable	Not applicable	Delete	Edit	Create

Manage volumes

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- Configure el servidor de iSCSI para que publique el volumen creado en el punto anterior

Hostname: localhost.localdomain

Primary DNS: 192.168.57.2

Secondary DNS:

Gateway: DHCP Controlled

Update Cancel

Network Interface Configuration

Interface	Boot Protocol	IP Address	Network Mask	Speed	MTU	Link	Edit
eth0	DHCP	192.168.37.120	255.255.255.0		1500	Yes	Configure

Create bonded interface

Network Access Configuration

Delete	Name	Network/Host	Netmask	Type
<input type="checkbox"/>	raid5	192.168.37.129	255.255.255.255	Share

☐ Non

 0.0.0.0

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openfiler 16:31:32 up 31 min, 0 users, load average: 0.33, 0.08, 0.03 Log Out Status Update Shutdown

States System **Volumes** Quota Shares Services Accounts

Target Configuration LUN Mapping Network ACL CHAP Authentication

Add new iSCSI Target

Target IQN	Add
iqn.2006-01.com.openfiler:tsn./cs32af410	Add

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openfiler 16:35:21 up 35 min, 0 users, load average: 0.16, 0.13, 0.05 Log Out Status Update Shutdown

States System Volumes **Quota** Shares Services Accounts

Target Configuration **LUN Mapping** Network ACL CHAP Authentication

LUNs mapped to target: iqn.2006-01.com.openfiler:tsn.bdd0095e2f5d

 No LUNs mapped to this target

Map New LUN to Target: "iqn.2006-01.com.openfiler:tsn.bdd0095e2f5d"

Name	LUN Path	R/W Mode	SCSI Serial No.	SCSI Id.	Transfer Mode	Map LUN
cs32af410	/dev/sda15/cs32af410	write-thru	xALed9e-2UxG-AIWD	xALed9e-2UxG-AIWD	blkio	Map

openfiler 16:35:31 up 36 min, 0 users, load average: 0.03, 0.10, 0.04 Log Out Status Update Shutdown

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Target Configuration LUN Mapping **Network ACL** iSCSI Authentication

iSCSI host access configuration for target "iqn.2006-01.com.openfiler:tsn.bdd0095c2f5d"

Name	Network/Host	Netmask	Access
rod5	192.168.37.129	255.255.255.25	<input checked="" type="radio"/> Deny <input type="radio"/> Allow

[Update](#)

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Entregables:

- Backup del openfiler.

openfiler 17:26:27 up 11 min, 0 users, load average: 0.04, 0.03, 0.01 Log Out Status Update Shutdown

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Network Configuration

Hostname: localhost.localdomain
 Primary DNS: 192.168.37.2
 Secondary DNS:
 Gateway: DHCP Controlled

[Update](#) [Cancel](#)

Network Interface Configuration

Interface	Boot Protocol	IP Address	Network Mask	Speed	MTU	Link	Edit
eth0	DHCP	192.168.37.128	255.255.255.0	1500	Yes	Configure	

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openfiler

17:27:05 up 12 min, 0 users, load average: 0.02, 0.03, 0.00

Log Out | Status | Update | Shutdown

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Backup Configuration

Click download to perform an instant backup snapshot

Download

Restore Configuration

Restore by upload

Examiner...

Upload

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