Installation de configuration de base du module **iSCSI** dans **Openfiler**,

et paramétrage de la connexion depuis **Windows 7 avec l'initiateur**

Ici test en machine virtuelle à l'aide de Virtualbox, Openfiler version 2.3 en x86

1. Lancement de l'installation d'Openfiler - http://www.openfiler.com -



2. Partitionnement du disque dur.

Ici un disque de 60Gio est utilisé :

- > 100Mo pour /boot
- > 10Go pour le système /
- > 2Go de swap

> le reste on n'y touche pas pour l'instant ! Ce sera l'espace de stockage pour l'iSCSI dans mon cas.



3. La configuration du réseau

Installatio

Network	Network I	Devices					
Configuration	Active	on Boot	Device I	P/Netma	sk	Edit	
		*	eth0 [DHCP	_		
Any network devices you ha	ave						
detected by the installation	Hostname	2					
Network Devices list.		Edit Inte	rface eth	0			
To configure the network							
device, first select the dev	Configure eth0	DHCD				omain.com")	
and then click Edit. In the	Activate on bog	UNCP					
choose to have the IP and	(d) Activate on boo	•					
Netmask information	Hardware address	5:	08:00:2	7:5E:3D:	17		
can enter it manually. You	IP Address:	192	. 168	. 1	. 150		
also choose to make the	Netmask.	255	. 255	. 255	.0		

Network Configuration Any network devices you have on the system are automatically detected by the installation program and shown in the Network Devices list. To configure the network device, first select the device and then click Edit. In the Edit Interface screen, you can choose to have the IP and Netmask information configured by DHCP or you can enter it manually. You can also choose to make the device active at boot time.	<u>ឲ</u> openfiler [En fonction] - Oracle V	M VirtualBox						
Network Configuration Network Devices Any network devices you have on the system are automatically detected by the installation program and shown in the Network Devices list. Active on Boot Device IP/Netmask Edit Hostname Set the hostname: Imanually openfiler.minoshome.loc (ex. "host.domain.com") Imanually openfiler.minoshome.loc (ex. "host.domain.com") Netmask information configured by DHCP or you can enter it manually. You can also choose to make the device active at boot time. Imanually 192 Intel 8	openfiler							-8
Program and shown in the Network Devices list. Hostname To configure the network device, first select the device and then click Edit. In the Edit Interface screen, you can choose to have the IP and Netmask information configured by DHCP or you can enter it manually. You can also choose to make the device active at boot time. Miscellaneous Settings	Network Configuration Any network devices you have on the system are automatically detected by the installation	Network Devices	Device eth0	IP/Net 192.16	mask 8 1 15	0/255.255.25	55.0	Edit
and then click Edit. In the Edit Interface screen, you can choose to have the IP and Netmask information configured by DHCP or you can enter it manually. You can also choose to make the device active at boot time.	To configure the network	Set the hostname	: via DHC enfiler.mi	P noshom	e.loc	(ex. "host.	domain.com")	
choose to have the IP and Netmask information configured by DHCP or you can enter it manually. You can also choose to make the device active at boot time. Gateway: 192 168 1 .1 Primary DNS: 192 .168 .1 .1	and then click Edit . In the Edit Interface screen, you can	Miscellaneous Set	ttings		10		-1 ⁻¹	
	choose to have the IP and Netmask information configured by DHCP or you can enter it manually. You can also choose to make the device active at boot time.	<u>G</u> ateway: <u>P</u> rimary DNS: <u>S</u> econdary DNS: <u>T</u> ertiary DNS:	192 192	168]. 1]. 1].	. 1 . 1]]]	
If you do not have DHCP client	If you do not have DHCP client						Back	Next

Installation en cours...



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Installation complète puis reboot, on arrive ici.



4. <u>Mettre à jour le système !</u> Alors soit se connecter à l'interface web, ou bien SSH ou encore directement dans cette console.

En mode console, le logger en root avec son pass, puis taper conary updateall

Enfin le reboot une fois la m-a-jour terminée (taper reboot dans la console)



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5. Connexion à l'interface web

login : openfiler

pass : password

Firefox *						- 🗆 🗙
Openfiler St	orage Control	Center +				~
(+)	92.168.1.150	https://192.168.	1.150:446/	 ☆ ♥ C	∛ → Google	۹
-					E	Marque-pages
		filor				
		riier	open s	ource storage i	management	
		Userman				
		Username:	opennier			
		Password:	•••••			
			Log In			
	Distro Rele GUI Version	ase: Openfiler NSA 1: r1653-1-1	(32-bit PAE) 2	.3		
			C 1 1 1			
	Ho	© 2001 - 2010 <u>O</u> me • Documentati	penfiler. All rig on • Support •	Mebsite · Lice	ense	
*		III				*

6. <u>Paramétrage du disque dur, utilisation de l'espace restant pour créer l'espace de</u> <u>stockage iSCSI</u>

Volumes >

create new physical volumes.

Firefox * O Volumes : Volume Groups		- - - .
⊙oenfiler	446/admin/volumes_vgmanage.html ?? ♥ 1	C Google P Ar
😤 Status 🛛 🗊 System 📾 Volumes	🗿 Quota 🛛 🚍 Shares 🛛 🍹 Services 🛛 🍰 Accounts	
Volume Group Name Size Alloca	ne Group Management	Volumes section Manage Volumes Volume Groups Block Devices
Create	e a new volume group	Add Volume ISCSI Targets Software RAID
No existing physical vo	physical volumes were found, or all existing lumes are used. You can <u>create new physical</u> <u>volumes</u> .	Support resources Report bug Cet support Forums Admin Guide
	© 2001 - 2010 <u>Openfiler</u> . All rights reserved. <u>Home</u> - <u>Documentation</u> - <u>Support</u> - <u>Website</u> - <u>License</u> - <u>Log Out</u>	

Création de l'espace de stockage, Tout d'abord, créer un volume physique

		Cre	ate a partiti	on in /dev/ho	la		
		Y	ou can use ranges	within the following e	extents:		
	Mod	le St	arting cylinder	Ending cylinder	Space		
	Prima	ary	24689	124830	48.13 GB		
				-			
Mode	Partition Typ	e	cylinder	cylinder	Size	Create	Rese
Primary 💌	Physical volume		24689	124830	48.13 GB	Create	In

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Menu de droite, Volume groups

Volume Group Name Size Allocated Free Members Add physical storage Delete VG	 Manage Volumes Volume Groups Block Devices Add Volume iSCSI Targets Software RAID
Create a new volume group	
Valid characters for volume group name: A-Z a-z 0-9 + -	Support resources * Report bug Get support Forums Admin Guide
Menu de droite, Add volume	
Select Volume Group Please select a volume group to create a volume in. stockage Change	 Manage Volumes Volume Groups Block Devices Add Volume iSCSI Targets Software RAID
Block storage statistics for volume group "stockage"	Support resources
Total SpaceUsed Space50462720 bytes (49280 MB)0 bytes (0 MB)	 Report bug Get support Forums Admin Guide
Free (100%)	
Create a volume in "stockage"	
Volume Name (*no spaces*. Valid characters [a-z,A-Z,0-9]): vol1	
Volume Description: volume1	
Required Space (MB):	
Filesystem / Volume type: iSCSI -	
Create	

onglet Services, demarrer iSCSI target server (enable) onglet System, configurer le réseau qui aura accès au iSCSI, ou la machine avec son IP

Delete	Name	Network/Host	Netmask	Туре
New	lan	192.168.1.0	255.255.255.0	Share 🗸

onglet volumes, iSCSI Targets a droite

ዾ Status	🗊 System	📾 Volumes	🐌 Quota	🗐 Shares	Services	🤌 Accounts	
							Volumes section
Target	Configuration	LUN Mapping	Network	ACL CHAP A	uthentication		Manage Volume
			Add new	iSCSI Targ	et		 Block Devices Add Volume
		Target IQN			Add		iSCSI Targets Software RAID
		iqn.2006-01.0	com.openfiler:t	sn.dd2ac2f639f4	Add		

Targe	t Configuration	UN Mapping N	etwork ACL CH	AP Authentication		
	LUNs mapped	to target: iqn	.2006-01.com	n.openfiler:tsn.o	ld2ac2f639f	4
		A				
	-	<u> </u>	o LUNs mapped to	this target		
M	ap New LUN to	o Target: "iqr	n.2006-01.com	m.openfiler:tsn.	dd2ac2f639f	4"
Name	LUN Path	R/W Mode	SCSI Serial No.	SCSI Id.	Transfer Mode	Map LUN
volume1	/dev/stockage/vol1	write-thru 💌	UzyM3a-GJ7d-vrGl	b UzyM3a-GJ7d-vrGb	blockio 💌	Map

I	UNs mapped t	o target: iqr	n.2006-01.co	m.openfiler:	tsn.dd2ac2f63	39f4
UN Id.	LUN Path	R/W Mode S	SCSI Serial No.	SCSI Id.	Transfer Mode	Unmap LUN
0	/dev/stockage/vol1	write-thru Uz	yM3a-GJ7d-vrGb	UzyM3a-GJ7d-vrGb	blockio	Unmap
	1	All mappa	able iSCSI LUNs for mapped	this target have be	en	
	2		mapper			
	Target Configurat	tion LUN Mapp	oing Network	ACL CHAP Aut	hentication	
	Target Configurat	ion LUN Mapp	ping Network	ACL CHAP Auti	hentication	
	Target Configurat	ion LUN Mapp iSCSI h iqn.2006	oing Network	ACL CHAP Auth	hentication for target 12ac2163914"	1
	Target Configurat	ion LUN Mapp iSCSI f iqn.2006	Network	ACL CHAP Auth configuration enfiler:tsn.do Netmask	hentication for target 12ac2f639f4" Access	1
	Target Configurat	ion LUN Mapp iSCSI h iqn.2000 Name lan	Network Access of Contract of	ACL CHAP Auth configuration co	hentication for target 12ac2f639f4" Access	k
	Target Configurat	tion LUN Mapp "iQN.2000 Name lan	Network / Host 192.168.1.0	ACL CHAP Auth	Allow	
	Target Configurat	tion LUN Mapp iSCSI f iqn.2000 Name lan	Network/Host	ACL CHAP Auth configuration centiler:tsn.do Netmask 255.255.255.0 Update	Allow	
7. <u>_Aı</u> I'a	Target Configurat	tion LUN Mapp "iqn.2006 Name lan	Network/Host 192.168.1.0	ACL CHAP Auth configuration enfiler:tsn.do Netmask 255.255.255.0 Update lisateurs et m	hentication for target l2ac2f639f4" Access Allow 💽	bour avoir
7. <u>_Aı</u> <u>l'a</u> oisir u	Target Configurat	tion LUN Mapp "ign.2006 Name lan ar CHAP, created	Network/Host 192.168.1.0	ACL CHAP Auth configuration centiler:tsn.do Netmask 255.255.255.0 Update lisateurs et m	Access	oour avoir
7. <u>Au</u> <u>l'a</u> oisir u s 2 uso	Target Configurat	tion LUN Mapp "ign.2006 Name lan ar CHAP, creation e d'au moins ir un login dif	Network/Host 192.168.1.0	ACL CHAP Auth configuration Config	Allow v	bour avoir
7. <u>Aı</u> <u>l'a</u> bisir u s 2 uso our in our ou	Target Configurat	tion LUN Mapp "ign.2006 Name lan ar CHAP, created e d'au moins ir un login dif	Network/Host 192.168.1.0	ACL CHAP Auth Configuration Netmask 255.255.255.0 Update lisateurs et m S !	hentication for target l2ac2f639f4" Access Allow 💌	bour avoir

User Type	Username	Password	Update	Delete
Incoming User	userchapin	thepasswordkitue	Update	Delete
Outgoing User	userchapout	thepasswordkitue	Update	Delete
CHAP user to	target "ig	n 2006-01.com.o	nenfilertsn	dd2ac2f63

VOILA !

La target iSCSI est maintenant open et attend son client !

Voyons dans le document suivant la configuration de l'initiateur iSCSI de Microsoft sous win7, et l'initialisation du disque iSCSI pour enfin l'utiliser sous Windows comme un stockage physique.