Guía A5 – Creación del pool de hipervisores

Procedimiento para instalar host (hipervisores)

Paso 1. Descargar el hipervisor

1.1 Utilizar la siguiente dirección

https://xcp-ng.org/

1.2 Instalar con el asistente

La máquina virtual tiene que tener un disco SCSI de 80 GB

Paso 2. Descargar el gestor de máquinas virtuales

2.1 Utilizar la siguiente dirección https://github.com/xcp-ng

2.2 Dar clic en xenadmin



2.3 Abrir el archivo de las actualizaciones estables



2.4 Ubicar la versión más reciente

<	> N I	🛛 🕐 🍙 🧰 GitHub, Inc. [US] https://github.com/xcp ≡ 🔌 🛛 👻 🗫 where xenserv 📼 🤮 🔤 🕿 🟔 🛐 🛇	🕐 🖄 😤 🛛 🚾 🔯 🚺 🌔):
Д		Branch: master - xenadmin / updates.xml	Find file Copy path	*
<u>+</u>		Sorzel fix some issues after "merging" 7.6 into master	a196ae4 on 8 Feb	
		1 contributor		
0		11 lines (11 sloc) 1.49 KB Blame Hist	ory 🖵 🖋 🔟	
+		n="1.0" encoding="UTF-8" standalone="yes"?> rsions> value="7.4.2.7" name="XCP-ng Center 7.4.2-RC3" latest_cr="false" url="https://github.com/xcp-ng/xenadmin/releases/tag/v value="7.4.2.9" name="XCP-ng Center 7.4.2" latest_cr="false" url="https://github.com/xcp-ng/xenadmin/releases/tag/v.7.4 value="7.5.0.8" name="XCP-ng Center 7.5.0" latest_cr="false" url="https://github.com/xcp-ng/xenadmin/releases/tag/v7.5 value="7.5.1.12" name="XCP-ng Center 7.5.1" latest_cr="false" url="https://github.com/xcp-ng/xenadmin/releases/tag/v7.5 value="7.6.0.9" name="XCP-ng Center 7.6.0" latest_cr="false" url="https://github.com/xcp-ng/xenadmin/releases/tag/v7.5	77.4.2-RC3" timestam 8.2" timestamp="2018 0" timestamp="2018- 5.1" timestamp="2018 0" timestamp="2018-	
	¢	<pre>value="7.6.1.16" name="XCP-ng Center 7.6.1" latest_cr="false" url="https://github.com/xcp-ng/xenadmin/releases/tag/v7.6 value="7.6.2.17" name="XCP-ng Center 7.6.2" latest_cr="false" url="https://github.com/xcp-ng/xenadmin/releases/tag/v7.6 value="7.6.3.20" name="XCP-ng Center 7.6.3" latest="true" latest_cr="false" url="https://github.com/xcp-ng/xenadmin/releases/tag/v7.6 ensions></pre>	<pre>5.1" timestamp="2018 5.2" timestamp="2018 Leases/tag/v7.6.3"</pre>	
*				•
	0	🙆 🗖 🖂 🦘 Restab	olecer — 10	0 %

2.5 Copiar la dirección de descarga

https://github.com/xcp-ng/xenadmin/releases/tag/v7.6.3

Paso 3. Instalar el archivo ejecutable

Verificar aspectos de virtualización

Paso 1. Configuraciones de Hardware:

1.1 Activación de la máxima velocidad de los microprocesadores (trabajar en un lugar ventilado)



1.2 Monitoreo de la frecuencia de operación de los núcleos

(usar HWMonitor portable)

🛃 CPUID HWMonitor						
<u>F</u> ile <u>V</u> iew <u>T</u> ools <u>H</u> elp						
Sensor	Value	Min	Max			
🖨 💽 Hewlett-Packard 1965						
😑 🞻 Temperatures						
TZ00	56 °C (132 °F)	54 °C (129 °F)	71 °C (159 °F)			
TZ02	45 °C (113 °F)	45 °C (113 °F)	46°C (114°F)			
🖻 🔤 Utilization						
System Memory	24 %	22 %	24 %			
😑 🧧 Intel Core i7 4700MQ						
🕀 🛷 Voltages						
🖻 💣 Temperatures						
Package	59 °C (138 °F)	53 °C (127 °F)	85 °C (185 °F)			
Core #0	55 °C (131 °F)	51 °C (123 °F)	82 °C (179 °F)			
Core #1	54 °C (129 °F)	51 °C (123 °F)	82 °C (179 °F)			
Core #2	54 °C (129 °F)	51 °C (123 °F)	85 °C (185 °F)			
Core #3	53 °C (127 °F)	51 °C (123 °F)	81 °C (177 °F)			
🕀 🧭 Powers						
E Utilization						
Processor	2%	0%	49%			
CPU #0	3%	0%	46%			
CPU #1	1%	0%	76%			
CPU #2	1%	0%	55 %			
CPU #3	0%	0%	53 %			
CPU #4	1%	0%	39%			
CPU #5	9%	0%	81 %			
CPU #6	3%	0%	71 %			
CPU #7	0%	0%	51%			
E Clocks						
Core #0	2298 MHz	1494 MHz	3397 MHz	1		
Core #1	2298 MHz	1494 MHz	3397 MHz			
Core #2	2098 MHz	1496 MHz	3397 MHz			
Core #3	2298 MHz	1494 MHz	3397 MHz			
⊕ Samsung SSD 850 EVO 500€				r		
⊕ - HGST HTS541010A9E680						
⊕ ST1000LM024 HN-M101MBE	3					
E SAMSUNG HM502JX						
Intel(R) HD Graphics 4600						
E- 🐨 Primary						
						_
Keady				N N	IUM	1

1.3 Cerrar todos los programas y detener todos servicios que no se necesitan

Utilizar services.msc Usar Process Monitor Usar Process EXplorer

👜 Process Monitor - Sysinte	rnals: www.sysintern	als.com			×	
<u>File E</u> dit E <u>v</u> ent Fi <u>l</u> ter <u>T</u>	ools <u>O</u> ptions <u>H</u> el	p				
🚅 🖫 🍳 🖗 🖾 🔿	🔺 😨 🗉 🏘	5 🕺 🔂 🕰 🛥 🗷				
Time Process Name	PID Operation	Path	Result	Detail	^	
4:59:0 📝 ctfmon.exe	7988 🌋 RegOpenKey	HKCU\Software\Microsoft\Input\Settings	SUCCESS	Desired Acce	ss: I	
4:59:0 💽 svchost.exe 🛛 🔅	3256 🛃 ReadFile	C:\Users\cuchillac\AppData\Local\Con	SUCCESS	Offset: 3,743,	744	
4:59:0 🐂 Explorer.EXE 🛛 🛛	6520 🛃 QueryEAFile 🛛	C:\Users\cuchillac\AppData\Local\Te	SUCCESS			
4:59:0 📝 ctfmon.exe	7988 戱 RegQueryValı	e HKCU\Software\Microsoft\Input\Settin	SUCCESS	Type: REG_D	DWC	
4:59:0 💽 svchost.exe 🔅 🔅	3256 🛃 ReadFile	C:\Users\cuchillac\AppData\Local\Con	SUCCESS.	Offset: 3,747,	.840	
4:59:0 📝 ctfmon.exe	7988 戱 RegCloseKey	HKCU\Software\Microsoft\Input\Settings	SUCCESS			
4:59:0 📧 svchost.exe 🔅	3256 🛃 ReadFile	C:\Users\cuchillac\AppData\Local\Con	SUCCESS.	Offset: 3,751,	,936	
4:59:0 🐂 Explorer.EXE I	6520 🛃 QueryBasicInf	orC:\Users\cuchillac\AppData\Local\Te	SUCCESS	CreationTime:	: 16.	
4:59:0 📧 svchost.exe 🔅 🔅	3256 🛃 ReadFile	C:\Users\cuchillac\AppData\Local\Con	SUCCESS.	Offset: 3,756,	,032	
4:59:0 🐂 Explorer.EXE 🔰 🛛	6520 🛃 CloseFile	C:\Users\cuchillac\AppData\Local\Te	SUCCESS			
4:59:0 📧 svchost.exe 🔅 🔅	3256 🛃 ReadFile 👘	C:\Users\cuchillac\AppData\Local\Con	SUCCESS	Offset: 3,768,	,320	
4:59:0 📝 ctfmon.exe	7988 🛃 ReadFile	C:\Windows\System32\InputService.dll	SUCCESS	Offset: 4,636,	160	
4:59:0 📧 svchost.exe 🔅	3256 🛃 ReadFile	C:\Users\cuchillac\AppData\Local\Con	SUCCESS	Offset: 3,772,	,416	
4:59:0 🏊 sychost.exe 🔅 🔅	3256 🛃 ReadFile	C:\Users\cuchillac\AppData\Local\Con	SUCCESS	Offset: 3,780,	,608	
4:59:0 🐂 Explorer.EXE	6520 🎎 RegQueryKey	HKLM	SUCCESS	Query: Handle	eTa	
4:59:0 💽 svchost.exe 🔅	3256 🛃 ReadFile	C:\Users\cuchillac\AppData\Local\Con	SUCCESS	Offset: 3,788,	,800	
4:59:0 📧 svchost.exe 🛛 🔾	3256 🔜 ReadFile	C:\Users\cuchillac\AppData\Local\Con	SUCCESS	Offset: 3,796,	,992 💙	
<					>	
Showing 175,251 of 815,327 events (21%) Backed by virtual memory						

× □ -					Process Explorer - Sysint	ernals: www.sysinternals.	com [LAB4\cuchil	lac] 🂐
File Options View Process Find DLL Users	Help							
🛃 🖻 🖩 🗉 🗂 🎯 🖀 🗡 🗛 🐵								
Process	CPU	Private Bytes	Working Set	PID Description		Company Name	VirusTotal	^
 TouchpointAnalyticsClientService.exe AStorDataMgGvc.exe IntelMeFWService.exe Ini_service.exe ELMS.exe SedSvc.exe Sychost.exe 	< 0.01	44,736 K 31,780 K 1,272 K 1,528 K 3,488 K 2,764 K 2,764 K 2,764 K 2,760 K 2,760 K 6,072 K 2,792 K	15,536 K 204 K 60 K 80 K 104 K 208 K 3,072 K 396 K 1,496 K 976 K 11,352 K 28 K 28 K 28 K	12048 HP Touchpoint Analytics Clie 12132 (AStorDataSvc 12260 Intel(R) ME Service 7284 Intel(R) Dynamic Application 7636 Intel(R) Local Management 5 9648 sedsvc 10576 Servicio Agente de supervisi 9772 Proceso host para los servici 2320 Proceso host para los servici 13092 Proceso host para los servici 10172 Proceso host para los servici 828 Local Security Authority Proc 9cn	nt Service Loader Host Interface Service ón en tiempo de ejecución ios de Windows ios de Windows ios de Windows ios de Windows ess	HP Inc. Intel Corporation Intel Corporation Intel Corporation Microsoft Corporation Microsoft Corporation Microsoft Corporation Microsoft Corporation Microsoft Corporation Microsoft Corporation	0/67 0/71 0/58 0/58 0/71 0/68 0/65 0/69 0/69 0/69 0/69 0/69	
	0.16	2,500 K	3,528 K	764				
🖃 💽 winlogon.exe		2,408 K	1,676 K	1028				
fontdrvhost.exe		4,948 K	1,872 K	1084				~
Name Description (2795C005-1880-4 (4386E846-935F-4 (4386E846-935F-4 (664134CD-7688-4 (664134CD-7688-4 (4787951-4.3EE84 (4787951-4.3EE84	Company Name	Path C:\Progr C:\Progr C:\Progr C:\Virogr C:\Virod C:\Virod C:\Virod C:\Virod C:\Virod C:\Virod	amD ata\Microso amD ata\Microso amD ata\Microso amD ata\Microso (~ucchillac\AppD amD ata\Microso ows\ServiceProf ows\ServiceProf ows\SysWOW6- ows\SysWOW6- ows\SysWOW6-	ft/Windows/Caches/(2795C005-1 ft/Windows/Caches/(4388E&65-0 ft/Windows/Caches/(64F0698E-D ata/Local/Microsoft/Windows/Ca ft/Windows/Caches/(DDF571F2 lies/LocalService/AppData/Local/ iles/LocalService/AppData/Local/ iles/LocalService/AppData/Local/ iles/LocalService/AppData/Local/ iles/LocalService/AppData/Local/ iles/LocalService/AppData/Local/ iles/LocalService/AppData/Local/ iles/LocalService/AppData/Local/ iles/LocalService/AppData/Local/ iles/LocalService/AppData/Local/ iles/LocalService/AppData/Local/ iles/LocalService/AppData/Local/ iles/LocalService/AppData/Local/	VirusTotal Unknown Unknown Unknown Unknown Unknown Acceso denegado. Acceso denegado. Acceso denegado. Acceso denegado. 0/57 0/57			^
CPITIIsage: 7.03% Commit Charge: 29.26% Proces	ses: 202 Physical IIs	sage: 24.48%	21121070110110110	r renerer remét Sell				

Nota: investigar en la internet que servicios puede desconectar.

1.4 Limpiar la RAM

Utilizar Wise Memory Optimizer (portable)

🐻 Wise Memory Optimizer	* ×				
	 Minimizar a la bandeja Ejecutar al inicio de Windows Vaciar el portapapeles Buscar automáticamente nueva versión. 				
Utilizada: 3650 MB	Optimización automática				
Disponible: 12671 MB	5440 MB				
Libre:442.95 MB En4:51:11 p. m.	Ejecutar cuando esté libre la CPU (recomend				
C 🖸 🚺 Tamaños de la 16320 MB	Idioma por de Español 💌				

1.5 Desfragmentar los discos duros

Esto aplica si no son SSD

Paso 2. Configuración de VMWare Workstation

versión usada 14.04 y en Windows (para que los estudiantes tengan las mismas pantallas), se recomienda usar VMware Workstation en Linux

2.1 Configuración de la interfaz VNet8

Desconectar las interfaces que no se utilicen



2.1 Configuración del modo NAT

a. Verificar dirección del GW y las reglas de NAT

Nota: Las reglas de NAT aplicarán si hay el escenario se realiza con dos computadoras y se debe conectarlas entre ellas.

NAT Settings ×						
Network: vmnet8 Subnet IP: 192.168.50.0 Subnet mask: 255.255.0 Gateway IP: 192.168.50.254 Port Forwarding						
Host Port Type Virtual Machine IP Address Description						
Add Remove Properties						
Advanced Allow active FTP Allow any Organizationally Unique Identifier						
UDP timeout (in seconds): 30 Config port: 0						
DNS Settings NetBIOS Settings						
OK Cancel Help						

b. Configurar el servidor DNS

Para este caso se utilizará el modo Order en dónde se le consultará a los DNS defiinos, por ejemplo, el primer DNS podría ser el DNS de la red laboral, el segundo es el DNS de Google y el tercero es el DNS de la red domiciliar.

Domain Name Server (DNS) 🛛 🗙 🗙				
Auto detect	available DN	√S servers		
Policy:	Order	\sim		
Timeout (sec):	2	▲ ▼		
Retries:	3	* *		
DNS Servers				
Preferred DN	IS server:	192.168.5.19		
Alternate DN	IS server 1:	8.8.8.8		
Alternate DN	IS server 2;	192.168.20.1		
OK Cancel Help				

c. Verificar el rango de direcciones que concederá el servidor DHCP

DHCP Settings		×
Network: Subnet IP: Subnet mask:	vmnet8 192.168.50.0 255.255.255.0	
Starting IP address Ending IP address: Broadcast address:	192.168.50.21 192.168.50.25 192.168.50.25	
Default lease time: Max lease time:	Days: Hours: Minutes: 2 2 30 2 3 0	•
	OK Cancel Help	

Paso 3. Pruebas de comunicación

Establezca ping entre los equipos

Creación de un pool

Paso 1. Agregar los hipervisores

1.1 Abrir el xcp-ng center

Seleccionar infraestructura (si no estuviera seleccionada)

X 🗆 — XCP-ng Center 7.6.3 📀
File View Pool Server VM Storage Templates Tools Help
😋 Back 🝷 💿 Forward 🖃 📴 Add New Server 🏰 New Pool 👘 New Storage 🛅 New VM 🍈 Shut Down 🛞 Reboot 🕕 Suspend 🕕 Pause
Search Q XCP Center
Home Search
All Servers, VMs, Custom Templates & Remote SRs
New Search Edit Search Saved Searches Export Import
Show Columns 💌
Name CPU Usage Used Memory Disks Network (avg / max KBs) (avg / max KBs) (avg / max KBs) (avg / max KBs)
No results found
nfrastructure
Objects
- Organization Views -
O Saved Searches -
A Notifications

1.2 Dar un clic en "Add New Server"1.3 Definir los parámetros de conexión

Servidor	192.168.50.5	192.168.50.6
Username	root	root
Password	123456	123456

🐼 Add New Server ?					
Enter the host name or IP address of the server you want to add and your user login credentials for that server.					
Server:	192.168.50.5		\sim		
User login o	redentials				
Username:	root				
Password:	•••••				
	Add	Cano	el		

1.4 Dar clic en botón "Add"

1.5 Opción de verificación de funcionamiento

🦪 Health Check Over	view	? ×				
Health Check will auto schedule configured o <u>Privacy Statement</u>	omatically upload a server status report to XCP- on your XCP-ng pools.	ng Insight Services, based on a predefined				
Pool	Status	hiper01				
hiper01	Health Check not enabled	Not enrolled into Health Check				
Show this dialog when connecting to servers that are not enrolled into Health Check						

Nota: posteriormente se puede habilitar le servicio.

1.6 Dar clic en botón "Close"

1.7 Verificar que XCP-ng center reconoce al hipervisor hiper01

× □ -	XCP-ng Center 7.63 🏈
<u>File V</u> iew <u>P</u> ool <u>S</u> erver V <u>M</u> St <u>o</u> ra	age <u>T</u> emplates Too <u>l</u> s <u>H</u> elp
🕒 Back 🔻 🕥 Forward 👻 🔤 Add Ne	w Server 🏪 New Pool 🛅 New Storage 🛅 New VM 🎯 Shut Down 🛞 Reboot 🕕 Suspend 🕕 Pause
Search Q	hiper01 (Licensed with XCP-ng Free/Libre Edition) Logged in as: Local root account
Conter Conter Conter Conter Conter Conter Conter Conter Conter Conter Conter Conter Conter Conter Conter Conter Conter Conter Conter Conter Conter C	General Memory Storage Networking NICs GPU USB Console Performance Users Search
DVD drives	Server General Properties
🗃 Removable storage	Properties Expand all Collapse all
	General
	Management Interfaces
	Memory
	Version Details
	License Details
	CPUs I

1.8 Repetir proceso para hipervisor hiper02

1.9 Verificar que se ha agregado el segundo hipervisor

Nota: en la imagen aparece una máquina virtual con el nombre XOA, la cual fue descargada previamente



Paso 2. Crear el Pool 2.1 Dar clic en menú Pool 2.2 Dar clic en opción New Pool...

×		—						
File	View	Pool	Server	VM	Storage	Templates	Tools	Help
G B	ack 🕶 🌘	🏪 N	lew Pool				v Pool	💼 New Storage
Search.		Д	dd Server				F T	

2.3 Definir los parámetros del asistente

- Nombre del pool: pool-empresay
- Descripción: Pool para servicios críticos
- Hipervisor principal (Master): hiper01
- Miembros adicionales: hiper02

🔇 Create Ne	w Pool	? X
To create you like to be add	ur pool provide a name and select which servers yo ded to the pool.	u would
Name:	pool-empresay	
Description:	Pool para servicios críticos	(optional)
Servers		
Master: hi	iper01	~
Additional	members:	
✓ hiper0 ✓ hiper0	1 Master 2	
📑 Add No	ew Server	
	Create Pool	Cancel

2.4 Dar clic en botón "Create Pool"

2.5 Verificar que el pool se ha creado

× □ –							(CP-ng Center 7.6.3 🏈	
<u>F</u> ile <u>V</u> iew <u>P</u> ool <u>S</u>	erver V <u>M</u> St <u>o</u> ra	ge <u>T</u> emplates Too <u>l</u> s <u>H</u>	<u>1</u> elp					
😋 Back 🔹 💿 Forward 🕞 🐺 Add New Server 🏰 New Pool 는 New Storage 🛅 New VM 🔘 Shut Down 🛞 Reboot 🕕 Suspend 🕕 Pause								
Search	Q	😻 XCP-ng Center						
E 🔶 XCP-ng Center	□							
		All Servers, VMs, Custo	om Templates & R	emote SRs				
🐻 ход		New Search Edit Sear	rch S <u>a</u> ved Searche	es ▼ Export	Import			
							Show <u>C</u> olumns 🔹	
		Name		CPU Usage	Used Memory	Disks (avg / max KBs)	Network (avg / max KBs)	
		Pool-empresay Pool para servicios con Pool para servicios con	ríticos	-	-	-	-	
		hiper01 Default install of	f XCP-ng	3% of 4 CPUs	994 MB of 4 GB	-	2/2	
		biper02 Default install of	f XCP-ng	3% of 4 CPUs	994 MB of 4 GB	-	5/5	
		Ken Orchestra U	Inified Appliance	-	-	-	-	

2.6 Verificar por comandos

```
[root@hiper01 ~]# xe pool-list
```

[root@hiper01 ~]# xe host-list

```
uuid ( RO) : 52b590cf-bd6b-4210-9de8-a3ac8126230b
name-label ( RW): hiper02
name-description ( RW): Default install
```

Nota: Para eliminar un pool se debe:

- 1. Apagar todas las máquinas virtuales que se estuvieran ejecutando.
- 2. Sacar a los hipervisores adicionales (hiper02)
- 3. Seleccionar el pool, (solo debe estar el hipervisor master), menú Pool y escoger "Make in to Estándar alone server"

Paso 3. Crear el SR

3.1 Definir credenciales iqn

Para definir el ign en cada equipo será necesario modificar las propiedades de cada hipervisor

- a. Seleccionar el hipervisor hiper01
- b. Dar clic en el botón Properties
- c. Modificar el ign

😻 'hi	per01' Properties	?	×
-	General hiper01	📑 General	
	Custom Fields <none> Alerts</none>	XCP-ng Center provides several methods for labelling and organizing your resources. By using features such as folders and tags you can quickly group and manage resources across your connected servers.	;
	When control domain me	Name: hiper01	
	Multipathing Not active	Description: Default install of XCP-ng	
	Power On Disabled		
3	Log Destination Local	Tags: <none> Change</none>	
2005	GPU Using the integrated GPU	<mark>⊡</mark> ∞ <u>Edit tags</u>	
		iSCSI ION	
		Example: iqu:2007 11:com:cxample:my:optional-string	Cancel

d. Dar clic en botón OK

3.2 Verificar que se haya cambiado el valor iqn de cada hipervisor

```
[root@hiper01 ~]# cat /etc/iscsi/initiatorname.iscsi
InitiatorName=iqn.2019-12.sv.com.empresay:hiper01
InitiatorAlias=hiper01
[root@hiper02 ~]# cat /etc/iscsi/initiatorname.iscsi
InitiatorName=iqn.2019-12.sv.com.empresay:hiper02
InitiatorAlias=hiper02
```

3.3 Dar clic en la opción "New Storage"

×		_												
File	View	Pool	Server	VM	Storage	Templates	Tools	Help	-					
C B	ack 🕶 🌘) Form	vard 👻	🔁 Ac	ld New Se	rver 🏪	New Pool	🛅 New	Storage	🚺 New VN		Shut Dov	wn 🛞 I	Reboot
Search.					Q 🚯	pool-empr	esay (l	icensed w	ith XCP-n	g Free/Li	bre Edit	ion)		
□ 🏠	XCP-ng	Center			Gen	eral Memor	y Storag	e Network	ing New S	torage	WLB	Users	Search	
	⊕ <mark>1001</mark>	iper01	ay		Po	ool Genera	l Prope	rties						

3.4 Seleccionar iSCSI

× □ -		New Storage Repository - pool-empresay 🏈
Choose the type of i	new storage	0
Type Name Location	Virtual disk storage Block based storage isCSI Hardware HBA Software FCoE File based storage NFS SMB/CIFS ISO library Windows File Sharing (SMB/CIFS) NFS ISO	iSCSI iSCSI or Fibre Channel access to a shared LUN can be configured to host fully provisioned virtual disks using LVM or be formatted with the GFS2 cluster file system for hosting thinly provisioned virtual disks.
🍼 XCP-ng		
		< Previous Next > Cancel

Dar clic en botón "Next >"

3.5 Definir el nombre del SR

× 🗆 –		New Storage Repository - pool-empresay 🏈					
What do you want to call this Storage Repository?							
Type Name	Provide a name and a desc	iption (optional) for your SR.					
Location	Name: Almacenan	iento en ds01 para MV					
	Autogenerate descripti	n based on SR settings (e.g., IP address, LUN etc.)					
XCP-ng		< Previous Next > Cancel					

Dar clic en botón "Next >"

Nota: Tomando en cuenta que el cliente iSCSI de XCP-ng center no tiene espacio para definir la usuario DISCOVERY, se modificará la función Discovery del portal01 en FreeNAS

Sharing								
AFP (Apple) NFS ((Unix) WebDAV SAME	BA (SMB) Block (iSC	SI)					
Configuración Global del Destino Portales Iniciadores Acceso autorizado Destinos Extender Destinos asociados								
Add Portal								
Add Portal								
ID del Portal	Escuchar	Comentario	Descubrir Método de autenticación	Descubrir Grupo Autorizador				
Add Portal ID del Portal del Grupo 1	Escuchar 192.168.50.2:3260	Comentario miPortal01	Descubrir Método de autenticación None	Descubrir Grupo Autorizador				

3.6 Definir las credenciales de acceso al LUN

Usuario: usuchapinuno Contraseña: 1234561232456 Seleccionar el Target: iqn-2019-12.sv.com.empresay:ds01:mitarget01 LUN a utilizar: LUN0

× 🗆 –		New Storage Repository - pool-empresay 🧭
Enter a path for your	iSCSI storage	0
Type Name	Provide a target host for yo proceeding.	our iSCSI storage, indicating your target IQN and your target LUN before
Location	Target <u>h</u> ost name/IP addre	ess: 192.168.50.2 : 3260
	Use <u>C</u> HAP authenticatic	on
	CHAP <u>u</u> sername:	usuchapinuno
	CHAP pass <u>w</u> ord:	•••••
	<u>S</u> can Target Host	✓
	iSCSI target	
	Target <u>I</u> QN: iqn.2019-12	2.sv.com.empresay:ds01:mitarget01 (192.168.50.2:3260) 🛛 🗸 🗸
	Target <u>L</u> UN: LUN 0: 100 ⁻	11: 50 GB (FreeNAS) 🗸 🗸
-		
🍼 XCP-ng		
		< Previous Finish Cancel
Shaving		
Sharing		
FP (Apple) NFS (Unix)	WebDAV SAMBA (SMB)	Block (iSCSI)

ID del Portal 🔹 🔺 del Grupo	Escuchar	Comentario	Descubrir Método de autenticación	Descubrir Grupo Autorizador
1	192.168.50.2:3260	miPortal01	None	
2	0.0.0.0:3261	miPortal02	СНАР	1

Configuración Global del Destino Portales Iniciadores Acceso autorizado Destinos Extender Destinos asociados

Dar clic en botón "Finish"

Add Portal

3.7 Formatear el LUN



3.8 Verificar que el SR se ha creado

× □ -				XCP-ng Center 7.6.3 🦿					
Eile <u>Vi</u> ew <u>P</u> ool <u>Server</u> V <u>M</u> St <u>o</u> rage <u>T</u> emplates Tools <u>H</u> elp C Back - SForward - R Add New Server W New Pool (New Storage) New VM Shut Down Reboot (Suspend) Pause									
Search Q	, 😰 Almacenamiento en ds01 para MV in 'p General Storage Search	ool-empresay'		Logged in as: Local root account					
 Weight pool-empresay hiper01 hiper02 XOA Almacenamiento en ds01 para MV 	pool-empresay: Overview New Search Edit Search Saved Search	:hes ▼ Export.	Import	Show Columns 💌					
	Name	CPU Usage	Used Memory	Disks N (avg / max KBs) (avg					
	Pool-empresay Pool para servicios críticos	-	-	-					
	Default install of XCP-ng To hiper02	4% of 4 CPUs	994 MB of 4 GB	-					
	Default install of XCP-ng XOA Xen Orchestra Unified Appliance	2% of 4 CPUs -	994 MB of 4 GB -	-					
	Almacenamiento en ds01 para MV iSCSI SR [192.168.50.2 (ign.2019-1	-		-					

3.9 Verificar por comandos que se ha creado el SR al LUN

```
[root@hiper01 ~]# xe sr-list
```

```
uuid ( RO) : 0113893c-ac35-bc0c-8d0a-4b847dd11628
    name-label ( RW): Local storage
    name-description ( RW):
        host ( RO): hiper01
        type ( RO): lvm
        content-type ( RO): user

uuid ( RO) : 41658971-6037-0705-db5a-db77843bd14c
        name-label ( RW): Almacenamiento en ds01 para MV
        name-description ( RW): iSCSI SR [192.168.50.2 (iqn.2019-
12.sv.com.empresay:ds01:mitarget01; LUN 0: 1001: 50 GB (FreeNAS))]
        host ( RO): <shared>
        type ( RO): lvmoiscsi
        content-type ( RO):
```

: 169e0711-4aa9-0872-42cc-704c51106a30 uuid (RO) name-label (RW): DVD drives name-description (RW): Physical DVD drives host (RO): hiper02 type (RO): udev content-type (RO): iso uuid (RO) : 893bd32c-3d79-0a1e-8f13-46bbf5e160dc name-label (RW): Local storage name-description (RW): host (RO): hiper02 type (RO): ext content-type (RO): user uuid (RO) : 30cab9ce-cf5e-2ceb-8c98-79b95c15d7bf name-label (RW): XCP-ng Tools name-description (RW): XCP-ng Tools ISOs host (RO): <shared> type (RO): iso content-type (RO): iso : fbe560bc-0eb0-492f-d78d-5d4814265014 uuid (RO) name-label (RW): Removable storage name-description (RW): host (RO): hiper01 type (RO): udev content-type (RO): disk uuid (RO) : 3385c251-c402-3b58-fcc2-750febb91468 name-label (RW): Removable storage name-description (RW): host (RO): hiper02 type (RO): udev content-type (RO): disk uuid (RO) : 01c53df1-e923-97e9-3592-16c143d71b41 name-label (RW): DVD drives name-description (RW): Physical DVD drives host (RO): hiper01 type (RO): udev content-type (RO): iso

3.10 Comprobar que en FreeNAS se ha conectado el pool

root@ds01[~]# ctladm lunlist

(7:0:0/0): <FreeNAS iSCSI Disk 0123> Fixed Direct Access SPC-5 SCSI device (7:0:1/1): <FreeNAS iSCSI Disk 0123> Fixed Direct Access SPC-5 SCSI device (7:0:2/2): <FreeNAS iSCSI Disk 0123> Fixed Direct Access SPC-5 SCSI device root@ds01[~]# ctladm islist
 ID Portal Initiator name Target name
 27 192.168.50.5 iqn.2019-12.sv.com.empresay:hiper01
 12.sv.com.empresay:ds01:mitarget01
 28 192.168.50.6 iqn.2019-12.sv.com.empresay:hiper02
 12.sv.com.empresay:ds01:mitarget01
 iqn.2019-

Comandos para administrar las máquinas virtuales

```
[root@hiper01 ~]# xe host-list
uuid (RO)
                          : 4e294b92-324e-426d-bebd-c85507b6e76d
         name-label ( RW): hiper01
    name-description ( RW): Default install
host-shutdown
host-set-hostname-live
host-reboot
host-power-on
[root@hiper01 ~]# xe pgpu-list
uuid (RO)
                        : cbf246c0-86f6-49b6-b5f0-e694fc5557dd
       vendor-name ( RO): VMware
       device-name ( RO): SVGA II Adapter
    gpu-group-uuid ( RW): 182dac2f-a8c5-ac10-4e0c-b6ed6761c5e3
[root@hiper01 ~]# xe host-cpu-list
uuid ( RO)
                    : b4e0ec4b-de01-3c2e-ec64-fbc5c84b84cd
         number ( RO): 2
         vendor ( RO): GenuineIntel
          speed ( RO): 2400
    utilisation ( RO): <expensive field>
                    : da00dd45-6b2d-15e9-6480-3692ce2a44ad
uuid ( RO)
         number (RO): 1
         vendor ( RO): GenuineIntel
          speed ( RO): 2400
    utilisation ( RO): <expensive field>
uuid (RO)
                    : 3198dd33-3ed7-b18e-6b42-3e97bcc7df8b
         number ( RO): 0
         vendor ( RO): GenuineIntel
          speed ( RO): 2400
    utilisation ( RO): <expensive field>
uuid (RO)
                    : 16f1f40e-5e03-4d11-3d2a-7a1e9124a2e3
         number (RO): 3
         vendor ( RO): GenuineIntel
          speed ( RO): 2400
    utilisation ( RO): <expensive field>
[root@hiper01 ~]# xe pif-list
                            : 8c8b92f7-e8e6-36ac-f62f-5f71f11c3fe6
uuid (RO)
                device ( RO): eth0
    currently-attached ( RO): true
                  VLAN ( RO): -1
          network-uuid ( RO): e47df890-e056-f217-8b19-0ab023dd028c
```

[root@hiper01 ~]# xe pool-list : 60e7152c-1495-0cef-38fd-867c35e72f70 uuid (RO) name-label (RW): name-description (RW): master (RO): 4e294b92-324e-426d-bebd-c85507b6e76d default-SR (RW): <not in database> [root@hiper01 ~]# xe role-list : 7955168d-7bec-10ed-105f-c6a7e6e63249 uuid (RO) name (RO): vm-power-admin description (RO): The VM Power Administrator role has full access to VM and template management and can choose where to start VMs and use the dynamic memory control and VM snapshot features : aaa00ab5-7340-bfbc-0d1b-7cf342639a6e uuid (RO) name (RO): vm-admin description (RO): The VM Administrator role can manage VMs and templates uuid (RO) : fb8d4ff9-310c-a959-0613-54101535d3d5 name (RO): vm-operator description (RO): The VM Operator role can use VMs and interact with VM consoles : 7233b8e3-eacb-d7da-2c95-f2e581cdbf4e uuid (RO) name (RO): read-only description (RO): The Read-Only role can log in with basic read-only access uuid (RO) : 0165f154-ba3e-034e-6b27-5d271af109ba name (RO): pool-admin description (RO): The Pool Administrator role has full access to all features and settings, including accessing Dom0 and managing subjects, roles and external authentication uuid (RO) : b9ce9791-0604-50cd-0649-09b3284c7dfd name (RO): pool-operator description (RO): The Pool Operator role manages host- and pool-wide resources, including setting up storage, creating resource pools and managing patches, high availability (HA) and workload balancing (WLB) [root@hiper01 ~]# xe snapshot-list [root@hiper01 ~]# xe sr-list uuid (RO) : 706c6d2d-b8da-0554-8472-de51ac198217 name-label (RW): DVD drives name-description (RW): Physical DVD drives host (RO): hiper01 type (RO): udev content-type (RO): iso uuid (RO) : 23a9b8fa-e945-9db3-2cf3-fb0c7f70c3b4 name-label (RW): XCP-ng Tools name-description (RW): XCP-ng Tools ISOs host (RO): hiper01 type (RO): iso

```
uuid (RO)
                         : 33972148-a1aa-2d60-4074-a54e3e9c577f
         name-label ( RW): Local storage
   name-description ( RW):
               host ( RO): hiper01
               type (RO): lvm
        content-type ( RO): user
uuid ( RO)
                         : 9cd488f2-d3c3-7592-9b31-7d11c2c776c5
         name-label ( RW): Removable storage
   name-description ( RW):
               host ( RO): hiper01
               type ( RO): udev
        content-type ( RO): disk
[root@hiper01 ~] # xe template-list
[root@hiper01 ~]# xe vbd-list
uuid ( RO)
                     : f34ad43d-c996-3479-515c-46f144de2daf
         vm-uuid ( RO): b5004014-0aa7-8c36-2eea-3be21a1bcf5e
    vm-name-label ( RO): core
        vdi-uuid ( RO): 0f4ebd78-2621-407a-b08f-de335d91bb85
           empty ( RO): false
          device ( RO): xvdd
uuid (RO)
                      : abeae63f-9c9e-739d-937a-6ff6390ab4a1
         vm-uuid ( RO): 10a7a96f-65c7-fc9f-d753-231961160a6c
   vm-name-label ( RO): XOA
        vdi-uuid ( RO): 8c536bec-b122-492b-b936-d72ddd5c130a
           empty ( RO): false
          device ( RO): xvda
uuid (RO)
                      : fc7758f2-b2cf-1d3b-fe78-3a2cbc9b901a
         vm-uuid ( RO): b5004014-0aa7-8c36-2eea-3be21a1bcf5e
    vm-name-label ( RO): core
        vdi-uuid ( RO): 8a1527de-3cc2-4c98-a844-eb02600709fb
           empty ( RO): false
          device ( RO): xvda
             : e7aeff8d-ce54-40da-fc08-75bfd40137dd
uuid (RO)
         vm-uuid ( RO): 10a7a96f-65c7-fc9f-d753-231961160a6c
   vm-name-label ( RO): XOA
        vdi-uuid ( RO): <not in database>
           empty (RO): true
          device ( RO): xvdd
[root@hiper01 ~] # xe vdi-list
                        : 07eb4fcb-2586-4edc-a638-cf232a355370
uuid ( RO)
         name-label ( RW): guest-tools.iso
    name-description ( RW):
            sr-uuid ( RO): 23a9b8fa-e945-9db3-2cf3-fb0c7f70c3b4
        virtual-size ( RO): 7749632
```

content-type (RO): iso

sharable (RO): false read-only (RO): true uuid (RO) : 8a1527de-3cc2-4c98-a844-eb02600709fb name-label (RW): CorePlusdisco01 name-description (RW): sr-uuid (RO): 33972148-a1aa-2d60-4074-a54e3e9c577f virtual-size (RO): 2147483648 sharable (RO): false read-only (RO): false uuid (RO) : 8c536bec-b122-492b-b936-d72ddd5c130a name-label (RW): xoa name-description (RW): xoa root disk sr-uuid (RO): 33972148-a1aa-2d60-4074-a54e3e9c577f virtual-size (RO): 16106127360 sharable (RO): false read-only (RO): false : 456ee323-e777-4a9f-9234-117235881240 uuid (RO) name-label (RW): XenCenter.iso name-description (RW): sr-uuid (RO): 23a9b8fa-e945-9db3-2cf3-fb0c7f70c3b4 virtual-size (RO): 8288256 sharable (RO): false read-only (RO): true uuid (RO) : 0f4ebd78-2621-407a-b08f-de335d91bb85 name-label (RW): SCSI 1:0:0:0 name-description (RW): NECVMWar model VMware IDE CDR10 rev 1.00 type 5 sr-uuid (RO): 706c6d2d-b8da-0554-8472-de51ac198217 virtual-size (RO): 1073741312 sharable (RO): false read-only (RO): true [root@hiper01 ~]# xe vif-list uuid (RO) : 30a86b38-d567-51b6-28bf-9a1f0b3c91b9 vm-uuid (RO): 10a7a96f-65c7-fc9f-d753-231961160a6c device (RO): 0 network-uuid (RO): e47df890-e056-f217-8b19-0ab023dd028c : cb6ad15b-a911-16cb-572e-6d734fe6daff uuid (RO) vm-uuid (RO): b5004014-0aa7-8c36-2eea-3be21a1bcf5e device (RO): 0 network-uuid (RO): e47df890-e056-f217-8b19-0ab023dd028c [root@hiper01 ~]# xe vlan-list [root@hiper01 ~]# xe vm-cd-list Error: Multiple matches VMs found. --multiple required to complete the operation [root@hiper01 ~]# xe vm-cd-list vm=core CD 0 VBD: uuid (RO) : f34ad43d-c996-3479-515c-46f144de2daf vm-name-label (RO): core

```
empty ( RO): false
       userdevice ( RW): 3
CD 0 VDI:
uuid ( RO)
                     : 0f4ebd78-2621-407a-b08f-de335d91bb85
      name-label ( RW): SCSI 1:0:0:0
   sr-name-label ( RO): DVD drives
    virtual-size ( RO): 1073741312
[root@hiper01 ~]# xe vm-cd-list vm=XOA
CD 0 VBD:
                     : e7aeff8d-ce54-40da-fc08-75bfd40137dd
uuid ( RO)
   vm-name-label ( RO): XOA
          empty ( RO): true
      userdevice ( RW): 3
Error: No matching VMs found
[root@hiper01 ~] # xe vm-disk-list vm=core
Disk 0 VBD:
                    : fc7758f2-b2cf-1d3b-fe78-3a2cbc9b901a
uuid ( RO)
   vm-name-label ( RO): core
       userdevice ( RW): 0
Disk O VDI:
             : 8a1527de-3cc2-4c98-a844-eb02600709fb
uuid ( RO)
      name-label ( RW): CorePlusdisco01
   sr-name-label ( RO): Local storage
    virtual-size ( RO): 2147483648
```

Lista de comandos https://linuxconfig.org/xe-full-command-list-reference-with-description-for-xenserver

http://www.miniacademia.es/xenserver-administracion-con-la-consola-del-host-xencenter-xe-cli-y-powershell/