# 1 Xestión en quente do almacenamento das MVS

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## 1.2 Introdución

- Os discos virtuais que se asocian ás MVs reciben o nome de VDI (Imaxe de Discos Virtuais).
- Grazas a ter as XenServer Tools instaladas nas MVs, agora poderase facer unha xestión máis axeitada do almacenamento das MVs sen ter que apagalas.
- No caso dos Linux para-virtualizados os dispositivos de bloque son accesibles a través dos dispositivos /dev/xvd\*
- O escenario 5.B amosa a MV coa que se vai xestionar o almacenamento en quente.



1.3 Estado do almacenamento do host

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and Barrowship strange								

Na lapela **Storage** do host XenServer pódense observar os tipos de dispositivos de almacenamento (DVD/Discos/Recursos compartidos, etc) que está usando o host. Tamén se pode ver o tamaño dos discos e o espazo consumido.

Views: Server View	<ul> <li>Excel storage on scpl</li> </ul>	00		Logged in at
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No panel de recursos do host, en Local storage e na lapela Storage pódense ver os discos virtuais creados, o seu tamaño e se están asignados a unha MV, pois a cal.

### 1.4 Xestión de discos en quente en Linux

- A continuación vaise traballar coa MV **dMySQL** no suposto de que o administrador deste servidor desexase instalar o servidor de Bases de Datos de MySQL, pero gustaríalle ter as BBDD nun disco duro distinto ao do Sistema Operativo.
- Así podería conectalo e desconectalo en quente as veces que quixera. Incluso aumentarlle o tamaño ao disco sen apagar a MV.

#### 1.4.1 Asignar un segundo disco en quente



Ao acender a MV. Cos comandos **df -h** vense os puntos de montaxe, xunto cos parámetros do espazo e co comando **ls** /**dev**/**xvd**\* vense os dispositivos de disco conectados á MV e a súa distribución de particións.

Na versión 7.X.Y de Debian os puntos de montaxe está facendo uso do **uuid** da partición. Pódese ver a asociación entre uuids e dispositivos cos comandos:

blkid

Is -I /dev/disk/by-uuid

ieneral Men	nory Store	ot Networking Consol	le Performance Snaps	hots Logs	100		
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Na lapela Storage vese que o disco actual está activo. Engadir (Add...) un

Name	dmysql-HD2	
Description:	1	
ize:	5.0 + GB +	
ocation:	Local storage on xcp00 67.9 GB free of 100 GB	

... segundo disco de 5 GiB, con nome dmysql-HD2. O nome pode conter espazos.

Veni	Server View	•	to employ	on 'scp00'				Logged in a	e Local cont a	coreard.
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Vese que aparece o segundo disco e ademais activo. Aproveitamos para cambiar tamén o nome do primeiro disco.

2



Na mesma consola anterior, volver a executar o comando Is /dev/xvd\*, e agora vese que hai un novo disco xvdb. Este disco aínda non ten



Con fdsik -l vese que xvdb non ten táboa de particións.

### 1.4.2 Uso dun segundo disco pola MV

Montaxe do disco



Nesta ocasión non se van crear particións e creamos un sistema de ficheiros ext4 directamente en todo o disco xvdb: mkfs.ext4 /dev/xvdb. Quen desexe afondar en como administrar particións en Linux pode consultar o seguinte enlace Administración de discos e particións en Linux

root@dmysql:"# n	nkdir	/nysq1	-db			I
root@dmysql:~#	nount	/deu/x	udb ∕r	nysql-a	łb	
root@dnysql:"# (	df −h					
Filesystem		Size	Used	Auail	Use%	Mounted on
/deu/xuda1		7.6G	685M	6.5G	10%	1
tmpfs		123M	Θ	123M	0%	/lib/init/rw
udev		109M	76K	109M	1%	/dev
tmpfs		123M	Θ	123M	θ%	/deu/shm
/deu/xudb		5.0G	138M	4.66	3%	/mysgl-db
root@dmysgl:"#						
root@dmysgl:"# n	nkdir	/mysq1	-db/p	roba		
root@dnysgl:"#						
root@dnysql:"#	ls /m	isq1-db	/			
lost+found prol	ba					
root@dnysql:"#						

Creamos na raíz do sistema un directorio para realizar nel o punto de montaxe do disco xvdb: mkdir /mysql-db ...

root@dmysql:~# mkdin root@dmusgl:~#	r ∕mysql	-db			I
root@dmysql:"# mount root@dmysgl:"#	t ∕deu∕x	udb /1	nysql-o	đb	
root@dmysql:"# df -1	1				
Filesystem	Size	Used	Auail	Use%	Mounted on
/deu/xuda1	7.66	685M	6.5G	10%	1
tmpfs	123H	Θ	123M	0%	/lib/init/rw
udev	109M	76K	109M	1%	/deu
tmpfs	1231	Θ	123M	0%	/deu/shm
/deu/xudb	5.0G	138M	4.66	3%	/mysql-db
root@dmysql:"#					
root@dmysql:"# mkdin	· /mysql	-db/p	roba		
root@dmysql:~#					
root@dmysql:~# ls /m	nysql-db	1			
lost+found proba					
root@dmysql:~#					

... tamén realizamos a montaxe:

.

mount /dev/xvdb /mysql-db



Facemos o punto de montaxe permanente no /etc/fstab engadindo a liña: /dev/xvdb /mysql-db ext4 defaults 0 0.

#### 1.4.3 Aumento do tamaño do disco duro

- Nesta caso vaise apagar a MV para realizar o proceso de aumento de tamaño do disco.
- Pero poderíase realizar con ela acesa:
  - Desmontar o disco en dMySql: umount /mysql-db
  - Desactivar o disco na lapela Storage,
  - ♦ Cambiarlle o tamaño
  - Volver activar o disco.
  - Montar o disco en dMySql con mount ("mount -a" se está a entrada no fstab)
  - Executar resixe2fs /dev/xvdb
- Cambio tamaño do disco





1	General dmysiql-HD2	🛢 Size	and Location		
	Custom Fields <nove></nove>	You can in disk is not	crease the size of ; supported.	your disk to n	nore space is available for your VM. Reducing the size of your
9	Size and Location 10 GB, Local storage e	Size		10,000 👌	62
	dMySQL Device 1, Flexil / Writel	Location:	'Local storage'	Da	

Aumentarlle o tamaño a 10 GiB. Este proceso é irreversible unha vez que se aumenta o tamaño do disco non se pode decrecer, pero si volver aumentar.



Acender a MV e vese ao executar **df -h** que xvdb está montado pero que segue con 5.0 GiB. Vese o seu contido e tamén os puntos de montaxe con **mount**.



Sen desmontar o disco (non todos os sistemas de ficheiros o soportan) executar o comando: resize2fs /dev/xvdb.

root@dmysql:"# resiz resize2fs 1.41.12 ( Filesystem at /dev/: old desc_blocks = 1 Performing an on-lin	ze2fs /d 17-May-2 cudb is , new_de ae resiz	eu/xu 010) nount sc_bl	db ed on . ocks = /deu/x	/nysq 1 udb_t/	I-db; on-line resizing required	
The filesystem on /	deu/xudb	is n	ow 262	1440	blocks long.	
root@dmysql:~#						
root@dmysql:"# df -	h					
rilesystem	Size	Used	Auail	UseX	Nounted on	
/deu/xuda1	7,66	685M	6.56	10%	·	
unprs	1230	0	1230	02	/lib/init/rw	
udeu	109M	76K	109M	12	Zdeu	
tmpfs	1231	0	1231	62	/dev/shn	
/deu/xudb	9.9G	140M	9.3G	Z2.	/nysq1-db	
root@dnysql:"#						
root@dmysql:"# ls //	nysq1-db	4				
lost+found proba						
root@dmysql:~#						
Ao executar df -h ve	se que i	o tam	año au	ment	ou e que o contido do disco seque sendo o m	esmo
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C Dis scall	Virtual Div					
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Na imaxe pódense ver os discos virtuais que hai no host e as MVs ou Templates aos que está asignados.

8 GB

### 1.4.4 Activar / desactivar un disco en quente

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ooted	nysq1:‴	# umount	/nysq	1-db					
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ooted	nysq1:"	# df -h							
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deu/x	uda1		7.66	685M	6.56	10%	1		
npfs			123M	θ	123M	0%	/11	vinit.	/ru
deu			109M	76K	109M	1%	/deu		
npfs			123M	Θ	123M	0%	/deu	1/shm	
ooted	nysq1:~~	#							
oot@d	nysq1:‴	# ls /deu	v/xud*						
deu/x	uda /d	eu/xuda1	/deu	/xuda2	2 /de	u/xuda	a5 /	deu/x	udb
ooted	nysql:"	#							
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and an	(Querry)	ne un le	104	Terre					
DVD Drive 1:	<ul> <li>«empty»</li> </ul>								• Eest
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1	droysel HD2			Local storag	peron scp00-1	GB No		0 (Lowest)	Yes
*									
	1000				1.1				

Na lapela **Storage** desactivar o disco. Agora se se desexase poderíase incrementar o tamaño do disco sen apagar a MV e tal e como se fixo enriba.



Volver a activar o disco... E agora executando mount -a xa se volvería a ter o disco accesible a través de /mysql-db.

#### 1.4.5 Conectar / Desconectar un disco en quente

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Activar /desactivar disco

Aviso de que a desconexión do disco vai romper a asociación coa MV pero que se van preservar os datos que contén.

	· igt Local storage on	acp00				togged in as
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dMySQL on 'xcp00'				Logged in a	in Local in	of account
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Position Nerre denysgi HD SO	Description Granted by hempfuls previo	99 Henner Local Monage on scp	00 3 03 No		O (Lowert)	Yes
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Position Name denysqLHD SO 1	Description	98 Iener Local Bonege on Icp	00 8 0.8 No		0 (Lowed)	Yes 2
Position Name  denysqLHD 50	Description	98 Ieren Local storage on scp	00 8 CB No		0 (Lowed)	Yes
Position Name a denysql HD SO 1	Description	98 Iener Local storage on scp	00 8 CB No		0 (Lowed)	Yes
Position Name denysqLHD SO 1	Description	98 Ional dorage on sop	oo a cua Ne		a (Lowert)	Yes
Position Name  denysqLHD 50	Description	98 Ieren Local storage on scp	oo a caa Ne		a (Lowert)	Tes

Ese disco podería agora conectarse a calquera outra MV. Neste caso vaise conectar á mesma MV da que procedía.

Sele	ct a disk t	to add	from the l	SEDEIOW.				
		rtorage						-
-	Local	storage	-	1000				
	db	ase 0	Created by	y template	provision	er - 8 GB		
	😸 db	ase 0	Created by	y template	provision	er - 8 GB		
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	Attach as	read-o	only		Attach		Cancel	-
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eleccio dMySQ intual Dia WD Drive 1	Attach as onar o disc Lon xcp00' mary Storage sks ks	read-o	nectar.	marce   Snapshots	Attach	Legged	Cancel	ot .
eleccio dMySQ intuel Di WD Drive 1 Position	Attach as onar o disc L on 'scp00' mary Storage Storage Storage Name	read-o	nectar.	mance Seapshots	Attach	Logged Read Only	Cancel is as: Local re Prierity	est .
eleccio dMySQ intual Dis WD Drive 1 Pesition	Attach as onar o disc L on 'xcp00' more Storage Storage Storage Name dmysal HD SD	read-o co a co Networking Descriptio	nectar.	mance   Snapshots 58 ner Local storage o	Attach	Legged Read Only No	Cancel in as Local re Priority 0 (Lowest)	-

Disco conectado e activo.

Filesystem	Size	Used	Avai1	Use%	Mounted on
/deu/xuda1	7.66	685M	6.56	18%	
tmpfs	1231	0	1238	0%	/lib/init/ru
udeu	109M	76K	1058	18	/deu
tepfs	1238	0	1238	8%	/deu/shm
rootRdmysql:"#					
root0dmysql:"# ls	: /deu/xud+				
/deu/xuda /deu/x	cuda1 /deu	/xudai	Z /det	u/xuda	15 /deu/xudb
A COLOR OF					
root0dmysql:"#					
root0dmysql:"# root0dmysql:"#					
root0dmysql:"# root0dmysql:"# root0dmysql:"# Is	: /deu/xud+				
root0dmysql:"# root0dmysql:"# root0dmysql:"# Is /deu/xuda /deu/)	: /deu/xud* cuda1 /deu	zeudai	Z /de	u/xuda	x5
rootRdmysql:"# rootRdmysql:"# rootRdmysql:"# is /deu/xuda /deu/x rootRdmysql:"#	: /deu/xud× cuda1 /deu	zeudai	2 ∠de	u/xuda	15
rootRdmysql:"# rootRdmysql:"# rootRdmysql:"# is /deu/xuda /deu/x rootRdmysql:"# rootRdmysql:"# m	: ∕deu/xud∺ oda1 /deu mnt -a I	zoudai	2 ∠de	u/xudi	<b>N</b> 5
root0degsql:"# root0degsql:"# root0degsql:"# Is root0degsql:"# root0degsql:"# root0degsql:"# dd	s ∠deu∕xud× ouda1 ∠deu mnt -a I 7 -h	zrudai	Z ∠des	u-xudi	NS
root0degsql:"# root0degsql:"# ! >deu/xuda /deu/x root0degsql:"# root0degsql:"# m root0degsql:"# m Filesystem	s ∠deu/xud× uda1 ∠deu unt -a I 7 -h Size	vxuda: Used	2 ∠de Avail	u/xuda Use%	n5 Mounted on
rootRdnysgl: # rootRdnysgl: # 1s >deuxxuda _deux rootRdnysgl: # 1s rootRdnysgl: # 1s rootRdnysgl: # 1s Filesysten >deuxxuda1	s ∕deu/xud× cuda1 ∕deu umt -a I 7 -h Size 7.66	Used 685M	Z ∠dev Avail 6.5G	uzxuda Use% 10%	n5 Mounted on ∕
rootRdnysgl:" rootRdnysgl:"# rootRdnysgl:"# rootRdnysgl:"# rootRdnysgl:"# rootRdnysgl:"# filesysten /deu/xuda1 tmpfs	ant -a I Size 7.66 7.21	Used 685M 0	2 ∠der Ausil 6.5G 123M	Use% 10% 0%	NS Mounted on //iib/init/rw
rootRdmysgl:" rootRdmysgl:"% is /deu/xuda /deu/x rootRdmysgl:"% is rootRdmysgl:"% is rootRdmysgl:"% di Filesystem /deu/xuda1 tmpfs udeu	: /deu/xud* auda1 /deu aunt -a I 7 -h Size 7.66 123M 109M	Used 685M 9 76K	Auail 6.56 123M 169M	Use% 10% 8% 12	Mounted on
rootRAnysq1:" rootRAnysq1:"% is rootRAnysq1:"% is rootRAnysq1:"% for rootRAnysq1:"% di Filesysten rootRAnysq1:"% di Filesysten radev. tmpfs udev tmpfs	z /deu/xud* uda1 /deu unt -a I 7 -h Size 7.66 123M 109M 123M	Used 685M 9 76K 0	Avail 6.56 123M 109M	Usex 10% 0% 12 0%	Nounted on // /lib/init/rw /deu /deu/shn

Con mount -a o disco volve a estar conectado e conserva os datos.

# 1.5 Xestión de discos en quente en Windows

- Visto o anterior o participante pode practicar coa MV con Windows engadindo e retirando discos, activándoos, desactivándoos, crecéndoos, etc.
- Todo iso sen apagar a MV e dende o Administrador de discos de Windows formatando os volumes e expandíndoos.

-- Antonio de Andrés Lema e Carlos Carrión Álvarez (Maio-2013, Rev1: Feb 2014 - Rev2: Nov 2014)