# Manual

# ALMACENAMIENTO ADICIONAL PARA NUBE PÚBLICA EMPRESARIAL





# **Objetivo:**

Dar a conocer para los servicios Almacenamiento Gold y Alto Desempeño en la "Nube Pública Empresarial", los procedimientos de:

- a. Contratación/aprovisionamiento
- b. Incremento de Capacidad
- c. Cambio de política de almacenamiento
- d. Eliminación de disco

### Procedimiento contratación/aprovisionamiento

1.- Acceda a su panel de control introduciendo sus credenciales.

vCloud Director	
asitorg admin	
LOGIN	

2.- Seleccione el DCV en donde se encuentra la máquina virtual en la que se requiere el almacenamiento adicional.

Virtual Datacenters	3						
ASITORG-Analytic ASITORG, 0 put	:s am-nube-stg.telmex.com			△ ASITORG-VDC	bm-nube-stg.telmex.com		
Applications	CPU	Memory	Storage	Applications	CPU	Memory	Storage
0 vAops	O MHZ	0 MB	O MB	2 vApps	12 GHz	10 GB	310 GB
0 of 0 Rubbing VMs	play-an your-go unimited allocation	pay-as-you-go unimitad allocation	pey-as-you-go unimited allocation	3 of 3 Running title	pay 45 you go usimbed alocation	oky-es-ynu-go unimtrd alocation	pay-as-youngo unimted allocation
v Appa O of O Rubning VMs	O MHz phy-miyourge uninitiest allocation	0 MB Bity-thi-you-go unimited allocation	C MB sky-stryorige unlimited allocation	vApps 3 of 3 Running VMs	12 GHz ony-stryourge unimited allocation	10 GB sky-45 yeu-go unimited allocation	210 - Dey 45-j Lyninsted J



3.- Seleccione "DETAILS" en la máquina virtual a la que se le añadirá el almacenamiento adicional.

	~	Virtual Machin	ies		
Compute vApps	÷	Look in All VMs	∆ ît C		
Virtual Machines		Virtual Machine	-	Virtual Machine	
Affinity Rules		vmwindows01		vmlinux01	
Networking	~	Microsoft Windows Powered on	Server 20.	CentOS 7 (64-bit) Powered on	-
Networks		0 000	Lease	C ceus	Lease
Edges		2	Never Expires	2	Never Expires
Security		4096 MB	VMware Tools	2048 MB	VMWARE Tools
Storage	×	🚫 Netivona	Snapshot	Ø Networks	Snapshot
Independent Disks		LAN	020	LAN	3.0
		ACTIONS~ D	ETAILS	ACTIONS~ D	ETAILS

4.- En la sección "Hardware", apartado "Hard Disks" de clic en "ADD"

arwade .									
Compute Policy *	PG2.2vCPU-40	BRAM WI	idows.						
CPU									
Number of virtual CPUs	2					Virtual CPU hot add	0		
ores per socket xpose hardware-assisted CPU	0					Number of sockets	3		
irtualization to guest 05						Removable Media			
Memory						CD/DVD drive	Disconnected		
otal Memory	40%5 MB					Concernent and and and a second second			
lemory hot add						Floopy drive	Not installed		
Hard Disks									
- Solaria - Sola	Size		Policy		Bus Type		Bus Number	Unit Number	
Name Disk 0	sta# 51200	MB	Policy VM default policy	w.	Bus Type LSI Logic S	AS (SCS))	Bus Number	Unit Number	¢



5.- Aparecerá una nueva línea con el disco añadido:

- a. Introduzca en "Size" el tamaño del disco en Mega bytes.
- b. Seleccione el tipo de almacenamiento requerido del menú desplegable "Policy".

Policy	Tipo de Almacenamiento	Características de desempeño (IOPS)*
GOLD	Gold	1IOPS/GB
AD	Alto Desempeño	0.5IOPS/GB

\* Para mayor detalle de las características de almacenamiento consulte el siguiente enlace: https://telmex.com/web/empresas/almacenamiento.

- c. Seleccione el tipo y el número de bus de los menús desplegables "Bus Type" y "Bus Number".
- d. Haga clic en "Save".

	Size	Policy		Bus Type	Bus Number	Unit Number	
o	51200	MB VM default pol	cy u	LSi Logic SAS (SCSI) 🔗	0 ~	<u>o ~</u>	G
t	a	MB AD Storage to	b)	Paravirtual (SCSI)	<b>C</b>	0	٥
2	100000	MB GOLD Storage	Policy	Paravirtual (SCSI)	. <u>1 v</u>	<u>1 v</u>	0
		AD Storage Pol VM default poli	rolicy cy cy				
Non-	i tin	Relay .		- Ber Tota	Returned	i sait kembar	
Disk D	1220			Construction of the second sec			
	5'200	WD VM default p	sicy	LS Lope \$45 (\$25) -	0	0	0
Disk.)	0000	Mil AD Storage F	huley -	Perevistuel (SCS) -	<u> </u>	0	0
D194.2	100000	MB GOLD Storag	e Palicy -	Paravistual (SCS) -	<u>(1)</u>	<u>1</u>	0
ACS ACC							
Romany NOC	NC.	Connected	Natarok Adapter Type	Month.	ar wode	W AND WAS AND WAS ADD WAS	
•	0		74004673	LAN -	Matic - P Post -	00.50.50	0 0
est 05 Customan	ion						
vest OS Customigat Inanced	b						



# Configuración del disco en Sistema Operativo Windows

1.- Inicie sesión en la maquina virtual con sistema operativo Windows



2.- En versiones Windows Server 2012 y posteriores, en la barra de tareas, haga clic con el botón derecho en el logotipo de Windows y, a continuación, elija "Disk Management".



En Windows Server 2008, siga la siguiente ruta: Inicio> Herramientas administrativas>Administración de equipos>Administración de discos.



3.- Compruebe que el disco que se esta configurando aparezca en el listado de discos, y de clic derecho sobre el disco a configurar para inicializarlo

			Disk Mana	igement				
ew Help								
Layout Type Simple Basic	File System NTFS	Status Healthy (B	Capacity 49.65 GB	Erree Spa 39.09 GB	79 %	T		
i Simple Basic	NTES	Healthy (S.,	350 MB	63 MB	18 %			
Curtam Reconved		L re						
350 MB NTFS Healthy (System, Δctive, Pr	nmary Partition]	49.6 Hea	i6 GB NTES ithy (Boot, Page	e File, Crach Du	mp, Prenary I	Partition)		
Offline Detach VHD								
Properties Help								
97.65 GB Unellocated								
	System Reserved     System Reserved     System Reserved     Some Basic     System Reserved     System	Sor Telp Time Type File System Simple Basic NTFS Simple Basic NTFS Simple Basic NTFS System Reserved Sol MB NTFS Healthy (System, Δctive, Permary Partition) Initialize Disk Offline Detach VHD Propetties	System Reserved System Reserved System Reserved System Reserved Offline Deach VHD Properties	Sor Picip       Tagout     Type       File System     Statue       Simple     Basic       NTFS     Heably (G	Sor Field     Sor Field     Soro Field     Soro Field     Status     Sta	Diff       Tope       Pite System       Statue       Capacity       Pres Syst., %: Pres         Simple       Basic       NTFS       Heathy (B., 4365 GB       50:00 GB       79 %         Simple       Basic       NTFS       Heathy (B., 4365 GB       50:30 GB       100 %         Simple       Basic       NTFS       Heathy (B., 4365 GB       50:30 GB       100 %         Simple       Basic       NTFS       Heathy (S., 350 MB       63:MB       100 %         System Reserved       350 MB MTFS       Heathy (S., 350 MB       63:MB       18 %         System Reserved       36:06 B MTFS       Heathy (Boor, Page File, Clash Dump, Primary)         Initiative Disk       Offline       Deach VHD       Properties	System Reserved System Reserved Solve Disk     RCd 40.65 GB     25.07 GB     73 %       System Reserved Solve Disk     NTFS     Healthy (SL- 40.65 GB     35.07 GB     73 %       System Reserved Solve Disk     NTFS     Healthy (SL- 40.65 GB MTFS)     18 %       System Reserved Solve Disk     RCd 40.65 GB MTFS     40.65 GB MTFS Healthy (System, Active, Primary Partition)	Dist       Fries         Tayout       Type         Simple       Basic         NTFS       Heakhy (Ds. 40.66.08         Simple       Basic         Basic       NTFS         Heakhy (Ds. 40.66.08       26.09.08         Simple       Basic         Basic       NTFS         Heakhy (S. 30.08.08       26.37.08         Simple       Basic         NTFS       Heakhy (S. 30.08.08         Simple       Basic         NTFS       Heakhy (S. 30.08.08         Add GB MIFS       Heakhy (S. 30.08.08         Heakhy (System, Active, Premary Partition)       42.65.08.0175         Heakhy (System, Active, Premary Partition)       Heakhy (Bost, Page File, Crath Dump, Primary Partition)         Interact WHD       Properties

4.- Seleccione el tipo de partición (GPT o MBR)\* y de clic en "OK"

(+ +) 📰 🚺			
Volume	Initialize Disk	Free Spa	%
■ (C:) ■ New Volume (E: ■ System Reserver)	You must initialize a disk before Logical Disk Manager can access it. Select disks:	39.09 GB 58.37 GB 63 MB	79 10 18
Carlosk 0 Basic 50.00 GB Online	Use the following partition style for the selected disks:	Partition	> < =
© Disk 1 Basic ■ Unallocated ■ P	New Volume (F-)		v

6

\*GPT permite volúmenes que superan los 2TB MBR es mas antiguo y es comúnmente usado por equipos de 32 bits



5.- Haga clic con el botón derecho en el espacio sin asignar de la unidad y, a continuación, seleccione "New Simple Volume".

F					Disk Manage	ement		
File Action V	iew Help					1000540040		
= =\$ == []	E 2 6	1¢						
/olume	Lavour	Type	File System	Status	Capacity	Free Spa	% Free	
⇒ (C)	Simple	Basic	NTES	Healthy (B	49.66 GB	39.09 GB	79 %	
i≆ New Volume (E	a) Simple	Basic	NTES	Healthy (P	58.47 GB	58.37 GB	100 %	
- giorneuro	o ompe				550 110			
Disk 1 Basic	New Volume	(E-)						-
Disk 1 Basic 58.47 GB Gnline	New Volume 58,47 GB NTPS Healthy (Prima	(E) ry Partition)						
Disk 1 Bosic S8.47 GB Gnline Disk 2 Basic 97.53 GB Cnline	New Volume 58.47 GB NTPS Healthy (Prima 97.53 GB Unallocated	(E) ry Partition)						
Disk 1 Bosic S8.47 GB Gnline  Disk 2 Basic S7.53 GB Online	New Volume 58.47 GB NTFS Healthy (Prima 97.53 GB Unallocated	(E) ny Partition)				New Sin	sple Volume	
Disk 1 Basic S8.47 GB Gnfine Disk 2 Basic S7.53 GB Gnfine Gran Basic Gnfine Gran Ba	New Volume 58.47 GB NTPS Healthy (Prima 97.53 GB Unallocated	(E) ry Partition)				New Sin Plew Spi	sple Volume	
Disk 1 Basic Sa47 GB Gnline Disk 2 Basic Online Colored Color	New Volume 56.47 GB NTPS Healthy (Prima 97.53 GB Unallocated	(E) ry Partition)				New Sin New Spi New Spi	infe Volume med Volume ped Volume	
Comparison  Compa	New Yolume 56.47 GB NTFS Healthy (Prima 97.53 GB Unallocated	(E) ry Partition)				New Sin New Spi New Str New Str New 21	ngle Volume nneel Volume jeel Volume nored Volume Di folume	
Contraction  Cont	New Volume 58.47 GB NTPS Healthy (Prima 97.53 GB Unallocated	(E) ny Partition)				New Sin Flew Spi New Str New Mi New Mi	igite Valume nored Velume roxed Velume To Volume	
Disk 1 Basic S3.47 GB Critine  Disk 2 Basic S7.53 GB Critine  Contine  CDD (D2) No Media	New Volume 58.47 GB NTPS Healthy (Prima 97.53 GB Unaliccated	(E) ny Partition)				New Sin Piew Spi New Str New IA Properti	sple Volume prodet Volume ped Volume D-5 Volume E5	

6.- Se mostrará una pantalla para la creación del nuevo volumen, de clic en "Next"

Action View	Help								
······································		8							
ume	Layout	Туре	File System	Status	Capacity	Free Spa.,	% Free		_
	N	ew simple	volume wiza	ira	-	58.37 GB	100 %		
		Welcom Volume This wizerd h A simple volu To continue,	e to the Ne Wizard else you create a a ma can only be on click Next.	ew Simpl mple volume o o angle disk.	<b>e</b> m a dak.	63 MB	18 %		
			- Badk	Next >	Cancel				
Media									



7.- Especifique el tamaño del volumen, el valor predeterminado muestra toda la capacidad del disco, de clic en "Next"

	🖬 🖬 🖬 🖬	l				
ime	Layout	Type File System	Status Ca	Free Spa	% Free	
	Nev	v Simple Volume Wize	ard	39.09 GE 58.37 GE	79 % 100 %	
Speci O	fy Volume Size notse a volume size that is	between the maximum and mi	imum sizes	63 MB	18 %	
N	sximum disk space in MB:	99870		_		
Ni	ninun dak apace in MB:	8				
S	nple volume size in MB:	99870				
		< Back	Next >	Cancel		*********************
Media						
Media						
Media						

8.- Especifique la letra de la unidad que desee asignar al volumen y, a continuación, seleccione "Next".

		鞣						
me	Layout	Туре	File System	Status	Capacity	Free Spa	% Free	
	N	ew Simple	Volume Wiza	hid	×	39.09 GB 58.37 GB	79 % 100 %	
Assign Driv For easi	ve Letter or Pat eraccess. you car	h 1 assign a driv	e letter or drive path	n to your partite	an.	63 MB	18 %	
) Aseç	an the following dr	ve letter:	F	Ŷ				
O Mour	nt in the following o	ampty NTFS fo	alder:	c				
() Do n	ot assign a drive le	tier or drive pa	ath					
						Contraction of the local division of the loc		
			< Beck	Next >	Cancel			
Martin			< Back	Next >	Cancel			
Media			< Back	Next >	Cancel			
Media			< Back	Next>	Cancel			



9.- Especifique el sistema de archivos a usar (p.e., NTFS), seleccione "Next" y a continuación "Finish".

	are area				Disk Manag	ement		. <u>1774</u>	<b>-</b> 1
ie Ac	tion View	Help							
1.14	mai m m			1	1		1		
lume		Layout	Simple Volume Wit	Status	Capacity	39.09 GB	79 %		
-		IVEW	Soupre volume vitz	anu		58.37 GB	100 %		
h	To store data	<b>n</b> a on this partition, y	ou must format it first.			03 M/B	10.76		
-				1		-			
	Choose whet	ther you want to fo	mat the volume, and F to. 1	vhat settings y	ou want to use				
	O Do na	t formet this volume	•						
	Formation	t this volume with t	he following settings:						1
	File	system	NTF5	*					
	Alls	cator uni size:	Default	~					
	Vol	une label:	New Volume						
	V	Perform a quick for	met					****	
		Enable file and fold	fer compression						
			c Bash	Next 3	Cancel				
			( bush	1929	Carton				
la Madi									
		11111111111							

• 🔿 📅 🛙		8							
olume	Layout	Туре	File System	Status	Capacity	Free Spa	% Free		
	N	ew Simple	Volume Wiza	rd	×	39.09 GB	79 %		
		Completi Volume V You have succ Wizard. You salected if Volume type : Disk solected: Volume size. Drive letter or File system. Vi Alocation un Volume label: <i>Cuck fremst</i> . To close this w	ing the Ner Wizard Seafully completed be following setting Simple Volume Delc 2 SIGFO NB path F TS SIZE Default New Volume Yes izard, click Finich	w Simple d the New Sing gs:	2 pie Volume E V	63 MB	125		
) Media			< Bach	Finish	Cancel				
lic Media									



10.- En la ventana de "Disk Management" aparecerá la unidad con el tipo de formato y la letra que se especificó para su uso.

31					Disk Manag	gement					×
File Action Vi	ew Help										
(* • • 🗊 🖬	II 🖸 🗃 🛛	8									
Volume	Layout	Type	File System	Status	Capacity	Free Spa	% Free				
🖙 (C:)	Simple	Basic	NTFS	Healthy (B	49.66 GB	39.09 GB	79 %	12			
Rew Volume (F:	) Simple	Basic	NTES	Healthy (P.	58.47 GB	58.37 GB	100.%	_			
New Volume (F:	) Simple	Basic	NTFS	Healthy (P	97.53 GB	97,42 GB	100 %				
System Reserver	d Simple	Basic	NTFS	Healthy (S	350 MB	63 MB	18 %				
										-1	
Basic 58.47 GB Online	New Volume ( 58.47 GB NTFS Healthy (Prima	(E:) ry Partition)									
(Timus a											
Basic 97,53 GB Online	New Volume ( 97.53 GB NTFS Healthy (Prima	(F:) ry Partition)									
CD-ROM 0 DVD (D:)											=
No Media											
											_
											~
Unallocated	Primary partition	1							1		

11.- De igual manera, puede consultar las características el nuevo volumen desde: "This PC", dando clic derecho sobre el nuevo volumen,

Manage							
e .							~ O
*					~ ¢	Search This PC	P,
Folders (6) Desktop	E	Documents	Ja	Downloads			
New Vo	lume (F:) Propert	de Outorie	M	'uiden:			
Devis General Tools Tipe: Local Date He switch: hTFS User space: N Capacity: N	Hardware Sha 116,154,362 bytes 06,505,125,655 bytes 04,721,281,124 bytes Drive F,	110 MB 57.4 GB 57.5 GB	Ŷ	New Volume (E) 53.3 GB free of 38.4 GB			
Compress this drive to Now files on this drive No proportice	save discepace to have contents inde	xed in addition to					E E
	Olders (6) Desitop Desitop Desitop Device Sentere Tool Tipe: Local Data Resultant Tipe: Local Data Resultant TitS Desitopace: It Capacity: It Capacity: It Desitopace: It Capacity: It Desitopace: It Capacity: It	olders (6) Desktep New Volume (Fr) Proper Senes Toob Hardware So Senes Toob Hardware So Senes Toob Laders (Senes Toob Hardware So Senes Toob Ha	Colders (6) Desktop Desktop Desktop New Volume (Fr) Properties Provide Provide Vestors Provide Provide Provide Vestors Provide Provide Provide Vestors Provide Provide Provide Vestors Provide Provide Provide Provide Vestors Provide Provide Pro	Desktep       Decuments         New Volume (F:) Properties       Image: Control of the second s	Colders (6) Desitep Decuments New Volume (F:) Properties Statuto Cates Server Statuto Cates Server Statuto Cates Server Statuto Cates Server Statuto Cates Statuto Server Statuto Cates Statuto Statuto Statuto Cates Statuto Sta	Desitep       Decuments       Downloads         New Volume (F) Properties       Video:         Station: Date:       Total       Total         Station:       Total       Total       Total         Verv       Verview       Station:       Verview:         Total:       Total:       Verview:       Verview:         Verview:       Total:       Verview:       Verview:         Diver Fr.       Diver Fr.       Verview:       Verview:         Verview:       New fails on this diver to save diver on soddior to saloed in coddion to saloed in c	Posktop       Decuments       Deventoedts         New Volume (Fr) Properties       Value         Station Captis       Total         Performed to the former of the properties       Value         Deventoedt       Deventoedt         Performed to the former of the properties       Value         Performed to the properties       Value         Performed to the properties       Value         Deventoedt       Performed to the properties         Deventoedt       Deventoedt         Deventoedt       Performed to the properties         Deventoedt       Deventoedt         Deventoedt



# Configuración del disco en Sistema Operativo Linux

1.- Inicie sesión en la maquina virtual con sistema operativo Linux. Como ejemplo en las siguientes pantallas se utiliza el disco /dev/sdb la partición /dev/sdb1 y el punto de montaje /data.

Virtual Machine	
pg7Test	
CentOS 6 (64-bit) Powered on	
0 CPUs 1	Lease Never Expires
Memory 1024 MB	VMware Tools
Q Networks	Snapshot.

2.- En la consola introduzca el comando "fdisk -l" para verificar que este presentado el disco a nivel sistema operativo (En el ejemplo: /dev/sdb)

<pre>[root@pg7Test ~]# _</pre>	
Disk /dev/sdb: 107.4 GB, 107374182400 bytes 255 heads, 63 sectors/track, 13054 cylinders Units = cylinders of 16065 * 512 = 8225280 bytes Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes Disk identifier: 0x00000000	
Disk /dev/mapper/vg_tmpcentos6-lv_swap: 4227 MB, 4227858432 bytes 255 heads, 63 sectors/track, 514 cylinders Units = cylinders of 16065 * 512 = 8225280 bytes Sector size (logical/physical): 512 bytes / 512 bytes I/O size (minimum/optimal): 512 bytes / 512 bytes Disk identifier: 0x00000000	
Disk /dev/mapper/vg_tmpcentos6-lv_root: 48.9 GB, 48930750464 bytes 255 heads, 63 sectors/track, 5948 cylinders Units = cylinders of 16065 * 512 = 8225200 bytes Sector size (logical/physical): 512 bytes / 512 bytes 1/0 size (minimum/optimal): 512 bytes / 512 bytes Disk identifier: 0x00000000	



3.- Una vez identificado el disco particiónelo con el comando "fdisk" indicando el nombre del nuevo disco, (En el ejemplo fdisk /dev/sdb).

Iroot@pg7Test ~]# fdisk /dev/sdb
Device contains neither a valid DUS partition table, nor Sun, SGI or OSF disklab
el
Building a new DOS disklabel with disk identifier 0x5b7bc028.
Changes will remain in memory only, until you decide to write them.
Alter that, of course, the previous content won't be recoverable.
Warning: invalid flag 0×0000 of partition table 4 will be corrected by w(rite)
WARNING: DOS-compatible mode is deprecated. It's strongly recommended to switch off the mode (command 'c') and change display units to sectors (command 'u').
Command (m for help): _

4.- Introduzca "n" para crear partición, seguido de "p" para especificar que será una partición primaria. Establezca el número de partición en "1" y conserve los valores default de fisrt and last cylinder.



5.- Introduzca "w" para guardar los cambios.

```
Command (m for help): w
The partition table has been altered!
Calling ioctl() to re-read partition table.
sd 2:0:1:0: [sdb] Assuming drive cache: write through
Syncing disks.
[root0pg7Test ~]#__
```



6.- Verifique e identifique la nueva partición creada (En el ejemplo /dev/sdb1)

Dick deutedh: 10	7 4 CR 1073	74192400 1	utee			
DISK VACANSAD: 10	г.т <b>ав</b> , 10га	001102100 0	yıcs			
255 heads, 63 sect	tors∕track,	13054 cyli	nders			
Units = cylinders	of 16065 *	512 = 8225	280 bytes			
Sector size (logic	cal/physical	): 512 byt	es ∕ 512 byt	es		
I/O size (minimum/	∕optimal): 5	12 bytes /	512 bytes			
Disk identifier: 0	0x5b7bc028					
Device Boot	Start	End	Blocks	Id	System	
/dev/sdb1	1	13054	104856223+	83	Linux	
<pre>[root0pg7Test ~]#</pre>						

7.-Formatee la partición tipo ext4. En el ejemplo: "*mkfs.ext4 /d<mark>ev/sdb1*", d</mark>onde "dev/sdb1" corresponde a la partición sin formato en cuestión.





8.- Cree un nuevo directorio para montar la partición, introduciendo el comendo "mkdir / (Nombre del nuevo directorio)", en el ejemplo se muestra la creación de un directorio con nombre "data"

#### [root@pg7Test ~]# mkdir /data

9.- Utilice el comando "*mount*" indicando la partición y la ruta donde se montará el recurso. En el ejemplo el recurso se montará en: mount /dev/sdb1 /data.

#### [root@pg7Test ~]# mount /dev/sdb1 /data

10.- Valide con el comando "df -h" que ya este montada la partición en el directorio requerido.

Filesystem	Size	Used	Avail	Usez.	Mounted
/dev/mapper/vg_	tmpcentos6-1	v_roo	t		
	456	840M	426	Z%.	1
tmpfs	498M	0	498M	8%	/dev/shm
/dev/sda1	477M	28M	424M	7%	/boot_
/dev/sdb1	. 996	60M	94G	1%	/data

11.- Para hacer permanente el punto de montaje incluso al reiniciar la VM consulte el archivo /etc/mtab y busque la entrada que corresponda al punto de montaje





12.- Replique en el archivo /etc/fstab editándolo con el editor preferido (por ejemplo vi /etc/fstab)

#			VIGCON IOL	more	inf	ò
/dev/mapper/vg_tmp 1 1	centos6-lv_root /		ext4	defau	lts	5
UUID=dbbacbd3-4ef6	-4546-9c21-d515aff3efe	d ∕boot		ext4		defaul
ts 12						
/dev/mapper/vg_tmp 0 0	centos6-l∨_swap swap		swap	defau	lts	
tmpfs	/dev/shm	tmpfs	defaults		0	8
devpts	/dev/pts	devpts	gid=5,mod	e=620	0	0
sysfs	/sys	sysfs	defaults		0	0
proc	/proc	proc	defaults		Й	R
/dev/sdb1	/data	ext4	rw		0	0

13.- Si utiliza el comando "vi" para guardar basta con teclear "ESC" seguido de ":qw!" ENTER.



# Procedimiento incremento de capacidad

1.- En la máquina virtual sobre la que desea incrementar la capacidad del disco, seleccione "DETAILS". Los decrementos de capacidad no están permitidos.



- 2.- En la sección "Hardware", apartado "Hard Disks"
  - a. Identifique el disco a modificar
  - b. Cambie el valor deseado en MB en la columna "Size"
  - c. De clic en "SAVE"

14	Size		Policy		Bus Type	Bus Number	Unit Number	
k 0	51200	MB	VM default policy	<u>9</u>	LSI Logic SAS (SCSI) ~	0	0 ~	۵
sk1 (a)	4096	MB	AD Storage Policy	×.	Paravirtual (SCSI) 🤟	<u>1 – </u>	0 -	<b></b>
ux 2	6128	MB	GOLD Storage Policy	v.	Paravirtual (SCSI) ~	1	1 -	ŵ
d Disks								
d Disks	Size .		Policy		Bus Type	Bus Number	Unit Rumber	
d Disks	5i2+	МВ	Policy VM default policy	<u></u>	Bus Type LSi Logic SAS (SCS) ~~	But Stamber	turit Number	n a
d Disks me sk 0 sk 1	51200 4596	мв	Policy VM default policy AD Storage Policy	<u>×</u> ,	Bus Type LS Logic SAS (SCS) Paravirtual (SCS)	But Number	Unit Aumbar	۵ ۵



lame	Size	Pelicy		Bus Type	Bus Number	Shit Nu	umber	
Disk 0	51200	MBYM :	default policy	LSI Logic SAS (SCSI) =	<u>0</u> *	0	*	8
Disk 1	4596	MB AD S	Storage Policy -	Paravirtual (SCS) -	<u>1 - 2</u>	<u> </u>	<u>.</u>	۵
Disk 2	6128	MB GOL	D Storage Policy	Paravirtual (SCS) +	<u>3 v</u>	<u>(†</u>	Ψ.	Ð
ICs								
400								
ADD Primary Nic	NIC	Connected	Network Adapter Type	Network	IP Mode	IP Address	MAC Address	
ADD Primary Nic	Nic	Connected	Hetwork Adapter Type	sietwork LAN	IP Hode State - IP Pool	10 10 20 10	MAC Address 00:50:56:01:0	Û
ADD Primary NIC	міс 0	Connected	Hetwerk Adapter Type VMXX6ET3	Network LAN ~	IP Mode Static - IP Pool v	10 10 20 10	MAC Address 00:50:56:01:0	Û
ADD Primary NIC Subset OS Customizat	NIC O	Connected	Hetwerk Adapter Type VMXX6ET3	Nations LAN	P Mos State - IP Pool v	10 Address	MAIC Address	Û
ADD Primary NIC est OS Customizat Nanced	NUC O	Connected	Network Adapter Type VMXNET3	Sisteoit	IP Hote State - IP Pool v	19 Address 10 70 20 10	MAC Address 00:50:56:010	Û
ADD Primary Nic est OS Customizat Ivanced snitoring Chart	NIC 0		Hetwork Adapter Type VMXNET3	Sisteri	Ф мов State : IP Pool v	10 Address 10 70 20 10	MAC Address 00:50:56:010	Û

# **Sistema Operativo Windows**

1.- Inicie sesión en la maquina virtual con sistema operativo Windows





2.- En versiones Windows Server 2012 y posteriores, en la barra de tareas, haga clic con el botón derecho en el logotipo de Windows y, a continuación, elija "Disk Management".



3.- Identifique el disco con el incremento, y de clic derecho sobre este.

File Action View Help	× 2 8 5 5 5	1			- 0	×
Computer Management (Local     Sistem Tools	Volume Layout	Type   FileSystem   Status Basic Healthy (Recovery Partition)	Capacity Free Space 1% Free 450 MB 450 MB 100 %	Act	tions	
> ( Task Scheduler	- Smple	Basic Healthy (EFI System Partition)	99 MB 99 MB 100 %	De	sk Management	
<ul> <li>Befermance</li> <li>Device Menager</li> <li>Storage</li> <li>Windows Server Backup</li> <li>Windows Server Backup</li> <li>Totak Management</li> <li>Server and Applications</li> </ul>						
	= Disk 1					
	= Disk 1 Besic 4.45 GB Online	AD DYSK (Es) 3.57 GB HTTS 50 Histiby (Primary Pathion)	11 MB nalincated	*		
	= Disk 1 Besic 4.45 GB Online	AD bitsk (to) 197 GB KTIS Healthy (Pinnary Pantition) Un	01 Mil hallested			



4.- Seleccione la opción "Extend Volume"

Computer Management (Local     System Tools     Tools	Volume Layout	Type File System Status Basic Healthy (Tecove	Dpan .	5 45	ee Space 0 MB	% Free		Actions Disk Management
Task Scheduler     Erert Viewer     Sonael Felders     Eccal Users and Groups     Device Manager     Storage     Windows Server Backup     Disk Management	<ul> <li>Simple</li> <li>AD _ Simple</li> <li>GO Simple</li> </ul>	Basic NTFS Heably (Primar) Basic NTFS Heably (Primar) Basic NTFS Heably (Primar)	bytone Mark Parties as Active Change Drive Letter and Patha Estens Volume. Sheins Volume. And Mines. Durate Nolume	99 58 27 3 34 3 54	9765 7.62 GB 94 G8 93 G8	100 % 56 % 100 %		More Actions
	= Disk 1 Basic 4.45 GB Online	AD DISK (E:) 3.97 GB NTFS Healthy (Pinmary Partition)	Properties Help	-			Í	
	- Disk 2							
	Basic 5.95 GB Online	GOLD DISK (#:) 3.93 GB NTFS Healthy (Primary Partition)					Artivate Wi	าก่างปร
	Online	Healthy (Primary Partition)					Activate Wi	udows

5.- Se mostrará la capacidad que se añadirá al disco, de clic en "Next".

🏦 Computer Management (Local	Volume Layout Type File System Status	Capacity Free Space   % Free	Actions
<ul> <li>System Tools</li> <li>Task Schartsford</li> </ul>	Extend Volume Wizard X	450 MB 450 MB 100 %	Disk Management 🔶
D Task Scheduler     Event Viewer     M Event Viewer     M Shared Folden     M Local Users and Groups     @ Performance	Select Data You can use space on one or nom dirics to extand the volume.	49.45 GB 27.02 GB 55 % 1.07 GB 3.94 GB 99 % 1.95 GB 5.93 GB 100 %	More Actions 🔹 🕨
Cevice Manager     Sorvice Sanger     Mundows Server Backup     Totak Management     Sorvices and Applications	Available Selected  Available  Av	8 Scated Activate W	ndows



6.- De clic en "Finish"

	1.0	-30 mil	ann ma	100 %
Completing the Extend Volume Wizard		99 M8 49.45 G8 3.97 G8 5.95 G8	99 MB 27.62 GB 3.94 GB 5.93 GB	100 % 56 % 99 % 100 %
Disk selected: Disk 1 (499 MB) To close the wizard, click Frieh.		5		
		6 ocated		

7.- Se mostrará el disco con la nueva capacidad configurada.

Computer Management (Local	Volume Layo	ut Type File System	Status	Capacity	Free Space	% Free		Actions
System Tools	- Simp	le Basic	Healthy (Recovery Partition)	450 MB	450 MB	100 %		Disk Management
Construction     C	Simp     GO Simp     GO Simp     GO Simp	le Basic VIFS le Basic NTFS le Basic NTFS le Basic NTFS	Healthy (CFI System Partition) Healthy (Bock Page File, Crash Dump, Primary Partition) Healthy (Primary Partition) Healthy (Primary Partition)	99 M8 49.45 GB 4.45 GB 5.95 GB	99 MB 27.62 GB 4.43 GB 5.93 GB	100 % 56 % 99 % 100 %		More Actions
Services and Applications	- Disk 1 Basic 4.46 GB Online	AD DISK (E;) 4.45 GB NTFS Healthy (Primary F	artition)		(ja		^	
	Disk 2 Basic 5.95 GB Online	GOLD DISK (F:) 5.95 GB NTFS Healthy (Primary F	artition)				Activate Wi	ndows
	· ile die entred	Brimper entition					 Can to Castland	and the second second



# Sistema Operativo Linux

1.- Inicie sesión en la maquina virtual con sistema operativo Linux. Como ejemplo en las siguientes pantallas se utiliza el disco /dev/sdb la partición /dev/sdb1 y el punto de montaje /data.

Virtual Machine	
pg7Test	
CentOS 6 (64-bit)	Concession of the local division of the loca
Powered on	
D CPUs	Lease
1	Never Expires
Es Memory	VMware Tools
1024 MB	A
S Networks	Snapshot.
LAN	

2.- En la consola introduzca el comando "fdisk -l" para validar que se refleje el nuevo tamaño de disco.

En caso de que no se muestre, realice un nuevo escaneo haciendo referencia al disco en cuestión, en el ejemplo: echo 1 > /sys/block/sdb/device/rescan y ejecute nuevamente el commando "fdisk –l"

Filesystem	Size	Used	Avail	Usex	Mounte	d on		
/dev/mapper/vg_t	mpcentos6-1	v_root						
	45G	840M	42G	2%				
tmpfs	498M	0	498M	8%	/dev/s	hm		
/dev/sda1	477M	28M	424M	7%	/boot			
/dev/sdb1	996	68M	94G	1%	/data			
rontend/lest	a Idisk -1							
)isk /dev/sda: 5 94 heads, 32 sec Inits = cylinder Sector size (log /0 size (minimu	3.7 GB, 536 tors/track, s of 2048 * ical/physic m/optimal);	8709120 51200 512 = al): 5 512 b	00 byt cylin 10485 12 byt utes /	.es iders i76 by :es / / 512	tes 512 by butes	tes		
)isk /dev/sda: 5 64 heads, 32 sec Inits = cylinder Sector size (log 1/O size (minimu Disk identifier:	3.7 GB, 536 tors/track, s of 2048 * ical/physic m/optimal): 8x0005948d	8709120 51200 512 = 512 = a1): 5 512 b	00 byt cylin 10485 12 byt ytes /	es iders 576 by ces / 512	tes 512 by bytes	tes		
Disk /dev/sda: 5 54 heads, 32 sec Inits = cylinder Sector size (log 1/0 size (minimu Disk identifier: Device Boot	3.7 GB, 536 tors/track, s of 2048 * ical/physic m/optimal): 8x0005948d Start	8709120 51200 512 = a1): 5 512 by	80 byt cylin 10485 12 byt ytes / End	es iders i76 by es / 512 B	tes 512 by bytes	tes Id	System	
)isk /dev/sda: 5 54 heads, 32 sec Jnits = cylinder Sector size (log 1/0 size (minimu )isk identifier: Device Boot /dev/sda1 *	3.7 GB, 536 tors/track, s of 2048 * ical/physic m/optimal): 0x0005948d Start 2	870912( 51200 512 = 512 = a1): 5 512 by	80 byt cylin 10485 12 byt ytes / End 501	es iders 76 by es / 512 B 552	tes 512 by bytes locks 12000	tes Id 83	System Linux	
Disk /dev/sda: 5 54 heads, 32 sec Jnits = cylinder Sector size (log 1/0 size (minimu Disk identifier: Device Boot /dev/sda1 * Partition 1 does	3.7 GB, 536 tors/track, s of 2048 * ical/physic m/optimal): 0x0005948d Start 2 not end on	8709120 51200 512 = al): 5 512 by cyline	80 byt cylin 10485 12 byt ytes / End 501 der bo	es iders 576 by 512 B 512 B 512	tes 512 by bytes locks 12000 y.	tes Id 83	System Linux	
Disk /dev/sda: 5 54 heads, 32 sec Units = cylinder Sector size (log I/O size (minimu Disk identifier: Device Boot /dev/sda1 * Partition 1 does /dev/sda2	3.7 GB, 536 tors/track, s of 2048 * ical/physic m/optimal): 0x0005948d Start 2 not end on 502	8709120 51200 512 = a1): 5 512 by cyline 5	80 byt cylin 10485 12 byt ytes / End 501 der bo 1200	es iders 576 by 512 512 B 519	tes 512 by bytes 10cks 12000 y. 15776	tes Id 83 8e	System Linux Linux LUM	



3.- Para incrementar el espacio en disco será necesario desmontar la partición, introduzca el comando "umount /data".

[root0pg7Test	~]# ls ∕data∕	
1 dir1 dir2		test
[root0pg7Test	~]# <mark>umount ∕data</mark>	
[root0pg7Test	~]# fsck.ext4	

4.- Ejecute el comando "fsck.ext4 /dev/sdb1" para realizar una revision del disco.

fsck.ext4 fscl	(.ext4deu
[root@pg7Test ~]#	fsck.ext4 /dev/sdb1
e2fsck 1.41.12 (1	7-May-2010)
/dev/sdb1: clean,	18/6553600 files, 459355/26214055 blocks

5.- Recree la partición con el comando "fdisk" para que tome el nuevo espacio. En el ejemplo "fdisk/dev/sdb"

[root@pg	?Test ~]# fdisk /dev/sdb
WARN ING :	DOS-compatible mode is deprecated. It's strongly recommended to switch off the mode (command 'c') and change display units to sectors (command 'u').

6.- Una vez en el menú de particionamiento, valide la partición actual presionando "p", enseguida elimine la partición tecleando "d".

		4222200 1			
Disk /deu/sdb: 1b 255 heads 63 cer	1.1 68, 1618	19581 cul	inders		
Units = culinders	of 16065 *	512 = 8225	5280 butes		
Sector size (logi	ical/physical	): 512 by	tes / 512 byt	es	
1/0 size (minimum	n/optimal): 5	512 bytes .	/ 512 bytes		
Disk identifier:	8x5b7bc828				
Device Boot	Start	End	Blocks	Id	System
Device Boot /dev/sdb1	Start 1	End 13054	Blocks 104856223+	1d 83	System Linux
Device Boot /dev/sdb1 Command (m for he	Start 1 1p) d	End 13054	Blocks 104856223+	1d 83	System Linux



5.- Cree la nueva partición introduciendo "n", seguido de "p" para especificar que será una partición primaria. Establezca el número de partición en "1" y conserve los valores predeterminados de "fisrt" and "last cylinder".



6.- Introduzca "w" para guardar los cambios.

```
Command (m for help): w
The partition table has been altered!
Calling ioctl() to re-read partition table.
sd 2:0:1:0: [sdb] Assuming drive cache: write through
Syncing disks.
```

7.- Ejecute el comando "partx -v -a /dev/sdb" para actualizar la tabla de particiones

[root@pg7Tes	t ~]#	partx	-v -a /dev/	∕sdb			
device /dev/	'sdb:	start 0	size 314572	2888			
gpt: 0 slice	s						
dos: 4 slice	s						
# 1:	63-31	4568764	(314568702	sectors,	161059	MB)	
# 2:	0-	-1	( 0	sectors,	0	MB)	
# 3:	0-	-1	( 0	sectors,	0	MB)	
# 4:	0-	-1	( 0	sectors,	0	MB)	
BLKPG: Devic	e or	resource	busy				
error adding	part	ition 1					



8.- Antes de crecer la partición ejecute una revisión del disco con el comando "e2fsck", En el ejemplo "e2fsck -f /dev/sdb1"

[rootOpg7Test ~]# e2fsck -f /dev/sdb1 e2fsck 1.41.12 (17-May-2010) Pass 1: Checking inodes, blocks, and sizes Pass 2: Checking directory structure Pass 3: Checking directory connectivity Pass 4: Checking reference counts Pass 5: Checking group summary information /dev/sdb1: 18/6553600 files (0.0% non-contiguous), 459355/26214055 blocks

9.- Crezca la partición con el comando resize2fs, en el ejemplo "resize2fs /dev/sdb1"

[root@pg7Test ~]‡ resize2fs /dev/sdb1 resize2fs 1.41.12 (17-May-2010) Resizing the filesystem on /dev/sdb1 to 39321087 (4k) blocks. The filesystem on /dev/sdb1 is now 39321087 blocks long.

10.- Finalmente monte la partición y valide que se refleje el nuevo espacio y la información

[root@pg7Test ~]# mou	int ∕da	ta			
Lroot@pg7Test "]# df	-h				
Filesystem	Size	Used	Ava i l	Use%	Mounted on
/dev/mapper/vg_tmpcen	tos6-1	v_root	ļ		
	45G	840M	42G	2%	1
tmpfs	498M	0	498M	0%	/dev/shm
/dev/sda1	477M	28M	424M	7%	∕boot
∕dev∕sdb1	148G	60M	140G	1%	∕data
[root@pg7Test ~]# ls	∕data⁄				
1 dir1 dir2 dir3					test
[root@pg7Test ~]# cat	tes				
cat: tes: No such fil	e or d	irecto	ory		
[root@pg7Test ~]# cat	∕data	∕test			
sdf jkshf jksdf					
dfydsdf					
sd					
fsd					
fsdf					
sdfsdaf					
[root0pg7Test ~]#					



# Cambio de política de almacenamiento

1.- En la máquina virtual sobre la que desea eliminar el disco, seleccione "DETAILS".



- 2.- En la sección "Hardware", apartado "Hard Disks"
  - a. Identifique el disco a modificar
  - b. Cambie la política deseada en la columna "Policy"
  - c. De clic en "SAVE"

Hard Disks

lame	Size	Policy		Bus Type	Bus Number	Unit Number	
isk 0	51200	MB VM default	policy	LSI Logic SAS (SCSI)	0 ~	0 ~	Û
lisk1	2048	MB AD Storage	Policy	Paravirtual (SCSI)	<u>1 v</u>	0	٥
Cs ADD		AD Storage VM defaut	poścy poścy				
Hard Disks							
Name	Size	Policy		BusType	Bus Number	Unit Number	
Disk 0	51200	MB VM defa	ilt policy 🗠	LSI Logic SAS (SCSI) 👘 🗸	a ~	0	Ċ
Disk 1	2048	MB GOLD St	orage Policy	Paravirtual (SCSI) v	<u>1</u>	0	G
NICS							
Primary NIC	NIC	Connected	Network Adapter Type	Network	IP Mode	IP ADDress MAC Address	
•	0	8	VMXNETS	LAN -	Static - IP Pool ~	10 10 20 11 00 50 56 0	o
> Guest OS Customizat	ion						
) Advanced							
> Monitoring Chart	_						
	SAVE C						



3.- Se mostrará el proceso de actualización de la máquina virtual con el cambio de disco, cuando el estatus cambie a "Succeded" este habrá concluido.

C Ad datacement			0.8	SITE-VDC 1 @ ESITE	d public nuberally terrary com			
	~	An on the basis of the set						
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@ Networking	192							
Networks								
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Security								
🖽 Storage	1.000				0			
Independent Disks								
		6						
ecent Tasks								
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loosing Virtuel Macrine W	Indefiato	Orito 4435-4362-000-cheliktionstiti		<b>O</b> 1m	3 estisonn	1/05/2020. 09 38:03 AM		con ymware yceud
	1	and the second se	the second second				Contraction and the contract of the	7 F12102 (1102) 113

Al realizar el cambio en la política de almacenamiento se conservan los datos del disco, la facturación generada corresponderá a las horas de uso de cada política.



# Procedimiento eliminación de disco

1.- En la máquina virtual sobre la que desea eliminar el disco, seleccione "DETAILS".



2.- En la sección "Hardware", apartado "Hard Disks", identifique el disco a eliminar y de click en el símbolo " 🗓 ", finalmente de click en "SAVE"

sine     Falley     Stope     Due Number:     Unit Number:     Unit Number:       10k0     52000     MB     VM default policy     Parsential (SCS)     0     0     0     0       10k1     52000     MB     GOLD Starage Policy     Parsential (SCS)     0     0     1     0       10k1     52000     MB     GOLD Starage Policy     Parsential (SCS)     0     0     1     0       10k1     52000     MB     GOLD Starage Policy     Parsential (SCS)     0     0     1     0									
Dipk 0     S1200     MB     VM default policy     Paravitual (SCS)     O     O     O     O       Bigk 1     S1200     MB     GOLD Skorage Policy     Paravitual (SCS)     O     O     I     I       UNCs acro     Status     Status     Status     Status     Status     Status     Status     Status     Status	Name	Size	Palicy		Bus Type	D	n Number	Unit Number	
Disk1 <u>51200 MB GOLD Storage Policy Persistual (SCS) 0 1 1 </u>	Disk 0	51200	MB VM defaul	t policy v	Paravirtual (SCSI)			0 ~	۵
UCS ADD Primary Nat: NIC convertant Network Assignce Type Network Br Mode E Address Mat Address	DHk 1	51200	MB GOLD Sto	age Policy	Paravirtual (SCSI)	<u>~ (</u>	1 <u>v</u>	<u>1 v</u>	Ph.
	ADD		come/lad	whork adopter Type	Network	Te Missie	TF Addre	es Mac address	
O O C C VARGELS LAN V State - IP Pool + 10 10 2014 00 50 56 00 D	Primary Mrc	PAIC	the first three to be a set of the set.						
	Primary MIC	нос. 0		VNONET3	EAN 9	Static - IP Pool =	10.10.2	00.50.56.010	
descent des	Primary Nic	нис 0 0		VMXNET2	LAN V	Static - IP Pool	10, 10, 2	00 50 56 01 0	
> Subst US Customization > Advanced	Suest OS Customizati	нис 0		VNOVET3	EAN 9	State - IP Pool -	10.10.3	00 \$0.56010	<u>.</u>

# **ANEXO I**

# Consulta de la facturación del almacenamiento

1.- Desde el menú superior seleccione la opción "Operations Manager".

> C (# pubm.)	nube stg.telmex.com/ lumant/									Q 🖈 🖨 Incografe	e (1)	
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2.- En la opción "Metering" seleccione "Bills".

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3.- Se mostrarán los conceptos de facturación relacionados a su servicio, seleccione el correspondiente al almacenamiento:

Alto Desempeño  $\rightarrow$  "STaaS\_Alto\_Desempeño\_PAYG\_hourly" Gold  $\rightarrow$  "STaaS\_Gold\_PAYG\_hourly"

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4.- Aparecerá la venta "View Bill", seleccione el apartado de "Storage".

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5.- Se mostrará la facturación asociada a las políticas de almacenamiento contratadas.

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