El Switch Virtual Distribuido (DVS) proporciona visibilidad, seguridad y control a los entornos de red de nuestro servidores XenServer. Este consiste en un Switch virtualizado (vSwitch) corriendo en cada servidor XenServer y un DVS Controler, como servidor centralizado para administrar y coordinar cada uno de los vSwitchs.

DVSC se proporciona como máquina virtual de XenServer. En este artículo vamos a ver como instalar DVS y una breve Overview del producto.

DVS Controler proporciona definir de manera granular políticas de seguridad para el control del tráfico enviado y recibido por las VMs de un host proporcionando una visibilidad detallada de lo que ocurre y del rendimiento de todo el tráfico enviado dentro del entorno de red.

Para habilitar vSwitch deberemos seguir los pasos que indicamos a continuación. El primer paso, es habilitar la funcionalidad en los host de XenServer. Para ello, vía CLI, mediante SSH, Localmente o utilizando la consola del host de XenCenter, habilitaremos vSwitch tecleando:

\$ xe-switch-network-backend openvswitch

Una vez habilitado, será necesario reiniciar el host de XenServer. Este comando modifica el fichero /etc/xensource/network.conf y coloca la línea OpenvSwitch en lugar de Bridged para que pueda establecerse la conexión con el servidor.

Para utilizar DVS Controler necesitaremos cumplir con unos requerimientos mínimos de Hardware para la VM que correrá DVSC. Esta debe cumplir con.

- 2 CP
- 2GB RAM
- 16GB Disco

Una vez seguros que cumplimos con los mismos, se realizará la importación de la VM tal y como indicamos a continuación.

Lo primero que haremos será descargar desde MyCitrix el fichero .xva en formato .GZ. Si tenemos este fichero en el propio servidor, deberemos descomprimir el mismo mediante la línea de comandos:

\$ gunzip –c fichero.gz

0

\$ tar -xvf fichero.gz

En un sistema Windows, podemos utilizar alguna herramienta como WinRar para realizar la descompresión del fichero .gz.

Archivo E:\ts_iso\XenServer-5.6. extrayendo	0-fp1-beta-DVSC.xva.gz
XenServer-5.6.0-fp1-beta-DVSC x	va 72%
Tiempo transcurrido	00:08:49
Tiempo restante	00:03:19
Procesado	72%
Segundo plano	Pausa
Cancelar	Modo Avuda

Ello nos proporcionara un fichero .xva, formato default utilizado por XenServer como discos virtuales. Llegados a este punto, disponer de DVSC en nuestro host pasará por una

importación.



Seleccionamos mediante "Browse" la ubicación del fichero .XVA descargado.

Specify the loca	tion and type of the impo	rt source
Import source	Enter the file you w	ould like to import by entering the path to the file or using the Browse buttor
Home server		
Security Checks	Import file name:	
Storage		
Network		Note: The same file extension (.xva) is used for both exported VMs and exp
Finish		templates

Import file name:	E:\ts_iso\XenServer-5.6.0-fp1-beta-DVSC.xva	<u>B</u> rowse
	Note: The same file extension (.xva) is used for both exported templates	I VMs and exported

Seleccionamos el host dónde importaremos la VM del DVSC.

Import source	
Home server	Click on a server to nominate it as the home server for the imported VM or for any new VMs to be
Security Checks	based on the imported template. The home server will be used by default to start up the VM and to provide resources such as local storage.
Storage	Click on a need if you do not want to cominate a home server the most suitable wailable server w
Network	Click on a pool if you do not want to nominate a nome server: the most suitable available server w.
Finish	

Seleccionamos el Storage dónde ubicar la VM y la interface de red de XenServer dónde conectaremos DVSC.

Una vez finalizado, se nos mostrará un resumen de los datos especificados y confirmando la misma se procederá a la importación de la VM.

Complete the in	mport
Import source Home server Security Checks Storage	Click the Finish button to complete the import process and close the wizard. The import process may take several minutes.
Finish	
	Automatically start new VM To have your new VM start up as soon as the import process is complete select this checkbox.
CITRIX.	Start VM after import

En la pestaña "Logs" del Host podremos ver el estado y evolución del proceso de importación.

vent Log		
Impo	ting VM from 'E:\ts_iso\XenServer-5.6.0-fp1-beta-DVSC.xva' to 'ctx-host0'	
Impo Detail	ting VM from 'E:\ts_iso\XenServer-5.6.0-fp1-beta-DVSC.xva' to 'ctx-host0' Preparing to Import VM	
Impo Detai Time	ting VM from 'E:\ts_iso\XenServer-5.6.0-fp1-beta-DVSC.xva' to 'ctx-host0' Preparing to Import VM 00:00:58	



La importación puede tardar +/- unos 15-20 min para los 5GB de XVA y se creará una VM de unos 16GB de disco.

Una vez importada la máquina DVSC, dispondremos de un prompt dónde logarnos y empezar a utilizar DVSC.

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This is the network controller.

The controller provides a limited text console interface accessible here. Full functionality is available through the graphical user interface accessible through the XenCenter graphical console or from a remote browser connection.

The controller VM must have a valid IP address for access to the graphical user interface but none has been obtained. Please log into the text console and use the 'set controller management-interface config' command to establish a valid IP address.

dvsc login: 📘

	and the lawer of the second states and the second
CITRIX Distributed Virtual Switch Controller	
Username:	
Password:	
Login	

Nosvagasso corol pariadidativos anteriormente y, por motivos de seguridad, se nos solicitará una

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CITRIX [®] Distributed Virtual	Switch Controller [™]		
Please change admin password to con must contain 32 or fewer non-space of	ntinue. Passwords characters.		
New Password:			
Confirm Password:			
	Chappe Password		
Citrix Distributed Virtual	Switch Controller*	Dashboard Visibility &	Control Settings
٩	Status Flow Statistics	Access Control	Port Configuration
All Resource Pools Address Groups WM Groups	All Resource Pools		
	Resource Pool	# Ser	vers
	RSPAN Target VLAN IDs		
	Click + to add an item to this list	iave Target VLAN Changes	Undo Changes
Switch to Graphical Conse		no alipeter piero classific	a,kope la CLI
Anarociando la solicitud de na	ssword necesaria para logarnos.		
Please enter the password for th	his virtual machine:		
	K Cancel		

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	citrix Distributed Virt	tual Switch Controller*	Dashbo	ard Visibility & Contro	al Settings		
	Q	Status Flow	Statistics	Access Control	Port Configura	ation	
	A Desource Pools						
	Address Groups	All Resource Pools				Add Resource Po	ol
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Add R	esource P	ool		1				
Pool Master Server (DNS/IP):	10.226.22	2.21 I						
Login Username:	root							
Login Password:								
Steal:	If check existing	ked, forcibly r ; controller.	eplaces any					
		Connect	Cancel					
Establishing Xe	nServer	Connec	tion					
Trying to connect to '1	0.226.22	.21'						
			Cancel	J	1			
Resource Pool	# Serve	ers	# Networks	5	# ∨Ms	Statu	s	
10.226.22.21	0 ticles actin	narradvalcí c	0 rhorising conthinging		0 Academan a Eliterate i terre	Pool	Authenticatio	n Failure
Resource Pool		# Serve	rs	# Ne	tworks		# VMs	Statu
CTX-POOL		1		1			3	6

Pool Authentication Failure

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Status

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٩	Status	Flow Statistics	Access Control	Port Configuration	
All Resource Pools					
TX-POOL	CTX-POOL		Forward NetFlow	v to:	
Pool-wide Networks Pool-wide Network 0	Pool Status	•	Ø DVS Controller		
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 I ctx-host0 I All VMs 	Pool-wide Networks	1	Save NetFlow Confi	guration Reset	
• 🗽 ctx-dc00	XenServers	1			
• 🗽 ctx-dvsc	All VMs	3			
Address Groups	Servers in CTX-	POOL			
and the droups	XenServer	# Server	Networks	# VMs	Statu
	dy bacto				0

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DVS Controller			biread				
S Uptime	45 min						
bseJ URD	2%		1.800.900				
Network Statisti	а						
Network	Managed/Active/Total						
Resource Pools	1/1/1						
XenServers	1/1/1		Outload Third an Third an Third				
Networks	1/1/1		1111 1111 115W				
VHs 3/3/3			Apgregate Packet Rate (packets/sec) for the last hour				
Recent Network	livents		Subread 100				
Priority Date Tim	Event						
3 10/14/10 00:03:41	<pre>'cteliscense' now using IP 10.226.22.24 wth interface f5:70:a5:3d:f2:18</pre>	-					
3 10/14/10 00/03:40	"ctx-dvsc" added interface 76/95/32.0e.19/2c to network %etwork 0' on server "ctx-host0"						
3 10/14/10	'ctx-dc00' added interface adcod:67:afie1:77 to network 'Network 0' on server 'ctx-host0'	1	Outload 100 23 16 40 23 33 20 23 90 00				
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12	Pool-wide Networks	Stat	Status				VM Group	Members	hip			
- 88 -	XenServers	Res	Resource Pool CTX-POOl		0L		Not a member of any VM groups					
- 84	All VMs	Sen										-
- 8	etx-dc00											
- 8	VIF (a6:cd:67:af: ctx-dvsc	VM	Interfaces									
- 1	🚜 VIF (76:95:32:0e	:19:1 MAC	Address	Network Name	IP Address	Port Rx Bytes	Port Rx Packets	Port Rx Errors	Port Tx Bytes	Port Tx Packets	Port Tx Errors	
		f2:18	0:a5:3d:f2:18	Network	10.226.22.24	2011286	1302	0	421189	1571	0	٢
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alls and out	oops	Net	work Ever	nts								
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Escrito por cristiansan

Jueves, 14 de Octubre de 2010 09:54 - Actualizado Jueves, 14 de Octubre de 2010 10:29 Port Configuration **Flow Statistics** Access Control Status of the Tap • 10 VMs For the last 1 minute Bidrectiona Bytes 0911.50 091220 0911-60 1012-00 061210 081230 09.11.35 - 09. Inbound bytes to switch by source VM Outbound bytes from switch by source VM Outbound Bytes Source VM Inbound Bytes Inbound Rate (KEynuto X of Total Outbound Rate (KBynun) Source VM X of Total Cther etx-dec 1.965.585 33 100.0% 665,700 11 baliziadizante atactañ and course and think addize madelle i partir marial hal atarabada nolíticas Security Policy Expand All Save Policy Changes Undo Changes Global Policy Description Rule Details Protocol Direction **Remote Addresses** 杂 Action ARP allow ARP to and from VMs allow to / from Any 츕 企 allow DHCP to Any allow VMs to acquire an IP via DHCP DNS allow VMs to perform DNS lookups allow to Any 츕 Policy for pool 'CTX-POOL' Policy for network 'Network 0' Policy for VM 'ctx-liscense' Direction Remote Addresses Description Rule Details 音 Action Protocol ÷ No mandatory ACLs. Policy for Interface 'VIF (f6:70:a5:3d:f2:18)' **Remote Addresses** Description Rule Details Action Protocol Direction 杂 -No ACLs. 会 No default ACLs.

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oS Policing Policy	У	Save Port Configuration Chang	undo Cl	hanges
QoS policy for 'Global': N	lone			
QoS policy for 'CTX-PO	0L':			
QoS policy for 'Netw	vork 0':			
QoS policy for 'cb	x-liscense':			
QoS policy for	VIF (f6:70:a5:3d:f2:18)':			
Inherit Qos	5 policy from parent			
Disable inh	herited QoS policy			
Apply a Oa	S limit of	with a burst siz	e of	
Abbia do				
SPAN Policy				
SPAN Policy	: None			
SPAN Policy SPAN policy for 'Global' RSPAN policy for 'CTX-	: None POOL':			
SPAN Policy SPAN policy for 'Global' RSPAN policy for 'CTX- RSPAN policy for 'Ne	: None POOL': etwork 0':	elizo til de constat i det elite constatuto	<u>ποτηδοκ</u> Ωιφία	and the fill income

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Escrito por cristiansan Jueves, 14 de Octubre de 2010 09:54 - Actualizado Jueves, 14 de Octubre de 2010 10:29

VM Group		Add Member	Modify Group
Group Name	Group Description		# ∨Ms
Citrix Apliances	Citrix VPX		0

VMs in this VM Group

VM	Remove From	MAC	Network	IP	Port Rx	Port Tx	Status
Name	Group	Address	Name	Address	Packets	Packets	

Nos aparecerá un desplegable con las VMs disponibles.

Add VM	_
Select a VM to add to th	ne group:
ctx-liscense ctx-dvsc ctx-dc00	

Pudiando var an al Pool del Grupo an cuastión un resuman del mismo.

Q	Status	Flow	v Statistics	Access Contro	ol Por	t Configurat	ion	
All Resource Pools Address Groups	VM Group				1	Add Membe	r Modif	y Group
 ■ Address Groups ■ VM Groups 	Group Name	Group Name			Group Description			
Ctrix Apliances	Citrix Apliance	cr	rix VPX			2		
	VMs in this	s VM Gro	pup					
	VM Name	Remove From Group	MAC Address	Network Name	IP Address	Port Rx Packets	Port Tx Packets	Status
	ctx-dvsc	Remove	76:95:32:0e:19	2c Network 0	10.226.22.22	86083	118560	
	ctx-liscense	Remove	f6:70:a5:3d:f2:1	8 Network 0	10.226.22.24	1653	2033	0

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