UCS SAN-probleemoplossing

Inhoud

Inleiding Voorwaarden Vereisten Gebruikte componenten Conventies Tips bij het oplossen van problemen Gerelateerde informatie

Inleiding

Dit document bevat nuttige tips voor het oplossen van problemen voor Unified Computing System (UCS) SAN.

Voorwaarden

Vereisten

Cisco raadt u aan kennis te hebben over UCS SAN.

Gebruikte componenten

Dit document is niet beperkt tot specifieke software- en hardware-versies.

Conventies

Raadpleeg <u>Cisco Technical Tips Conventions (Conventies voor technische tips van Cisco) voor</u> meer informatie over documentconventies.

Tips bij het oplossen van problemen

Controleer of vHBA FLOGI in het SAN weefsel heeft.

1. Aanmelden bij UCS CLI en verbinding maken met NXOS. # connect nxos alb

(nxos) # show npv flogi-table

UCS-250-A# connect nxos										
Cisco Nexu	as Ope	erating Sy	ystem (NX-OS) Software							
TAC suppor	t: ht	tp://www.	cisco.com/tac							
Copyright	$(\mathbf{C}) = 2$	2002-2011,	Cisco Systems, Inc. All	l rights reserved.						
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Lesser Ger	neral	Public Li	icense (LGPL) Version 2.1	l. A copy of each						
such licer	nse is	s availabl	le at							
http://www	J.oper	source.or	g/licenses/gpl-2.0.php a	and						
http://www	J.oper	source.or	g/licenses/lgpl-2.1.php							
UCS-250-A	(nxos)	# show ng	ov flogi-table							
OFDUED	ERVER									
SERVER	VSIN	FCID	DODT NAME	NODE NAME	EXTERNAL					
SERVER INTERFACE	VSAN	FCID	PORT NAME	NODE NAME	EXTERNAL INTERFACE					
SERVER INTERFACE vfc3299	VSAN 1000	FCID Ox5eOOec	PORT NAME 20:bb:0a:03:00:00:00:1d	NODE NAME 50:01:23:45:44:55:66:cf	EXTERNAL INTERFACE fc2/1					
SERVER INTERFACE vfc3299 vfc3454	VSAN 1000 1000	FCID 0x5e00ec 0x5e0105	PORT NAME 20:bb:Oa:03:00:00:00:1d 20:00:00:25:b5:b0:25:2d	NODE NAME 50:01:23:45:44:55:66:cf 20:00:00:25:b5:a0:25:2e	EXTERNAL INTERFACE fc2/1 fc2/1					
SERVER INTERFACE vfc3299 vfc3454 vfc3468	VSAN 1000 1000 1000	FCID 0x5e00ec 0x5e0105 0x5e00d8	PORT NAME 20:bb:Oa:O3:00:00:00:1d 20:00:00:25:b5:b0:25:2d 20:00:00:25:b5:b0:05:1f	NODE NAME 50:01:23:45:44:55:66:cf 20:00:00:25:b5:a0:25:2e 20:00:00:25:b5:a0:05:1f	EXTERNAL INTERFACE fc2/1 fc2/1 fc2/1					
SERVER INTERFACE vfc3299 vfc3454 vfc3456 vfc3468 vfc3474	VSAN 1000 1000 1000 1000	FCID 0x5e00ec 0x5e0105 0x5e00d8 0x5e00d2	PORT NAME 20:bb:0a:03:00:00:00:1d 20:00:00:25:b5:b0:25:2d 20:00:00:25:b5:b0:05:1f 20:00:00:25:b5:b0:05:3f	NODE NAME 50:01:23:45:44:55:66:cf 20:00:00:25:b5:a0:25:2e 20:00:00:25:b5:a0:05:1f 20:00:00:25:b5:a0:05:0f	EXTERNAL INTERFACE fc2/1 fc2/1 fc2/1 fc2/1 fc2/1					
SERVER INTERFACE vfc3299 vfc3454 vfc3468 vfc3468 vfc3474 vfc3506	VSAN 1000 1000 1000 1000 1000	FCID 0x5e00ec 0x5e0105 0x5e00d8 0x5e00d2 0x5e0103	PORT NAME 20:bb:0a:03:00:00:00:1d 20:00:00:25:b5:b0:25:2d 20:00:00:25:b5:b0:05:1f 20:00:00:25:b5:b0:05:3f 20:00:00:25:b5:b0:25:3f	NODE NAME 50:01:23:45:44:55:66:cf 20:00:00:25:b5:a0:25:2e 20:00:00:25:b5:a0:05:1f 20:00:00:25:b5:a0:05:0f 20:00:00:25:b5:a0:25:1e	EXTERNAL INTERFACE fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1					
SERVER INTERFACE vfc3299 vfc3454 vfc3468 vfc3468 vfc3468 vfc3506 vfc3528	VSAN 1000 1000 1000 1000 1000 1000	FCID 0x5e00ec 0x5e0105 0x5e00d8 0x5e00d2 0x5e0103 0x5e010a	PORT NAME 20:bb:0a:03:00:00:00:1d 20:00:00:25:b5:b0:25:2d 20:00:00:25:b5:b0:05:1f 20:00:00:25:b5:b0:05:3f 20:00:00:25:b5:b0:25:3f 20:00:00:25:b5:b0:25:3f	NODE NAME 50:01:23:45:44:55:66:cf 20:00:00:25:b5:a0:25:2e 20:00:00:25:b5:a0:05:1f 20:00:00:25:b5:a0:05:0f 20:00:00:25:b5:a0:25:1e 20:00:00:25:b5:a0:05:01	EXTERNAL INTERFACE fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1					
SERVER INTERFACE vfc3299 vfc3454 vfc3468 vfc3468 vfc3506 vfc3506 vfc3528 vfc3607	VSAN 1000 1000 1000 1000 1000 1000	FCID 0x5e00ec 0x5e0105 0x5e00d8 0x5e00d2 0x5e0103 0x5e010a 0x5e010a	PORT NAME 20:bb:0a:03:00:00:00:1d 20:00:00:25:b5:b0:25:2d 20:00:00:25:b5:b0:05:3f 20:00:00:25:b5:b0:25:3f 20:00:00:25:b5:b0:05:1a 20:00:00:25:b5:b0:05:1a 20:00:00:25:b5:b9:30:02	NODE NAME 50:01:23:45:44:55:66:cf 20:00:00:25:b5:a0:25:2e 20:00:00:25:b5:a0:05:1f 20:00:00:25:b5:a0:05:0f 20:00:00:25:b5:a0:25:1e 20:00:00:25:b5:a0:05:01 50:01:23:45:44:55:66:bf	EXTERNAL INTERFACE fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1					
SERVER INTERFACE vfc3299 vfc3454 vfc3454 vfc3474 vfc3506 vfc3528 vfc3607 vfc3611	VSAN 1000 1000 1000 1000 1000 1000 1000	FCID 0x5e00ec 0x5e0105 0x5e00d8 0x5e00d2 0x5e0103 0x5e010a 0x5e010a 0x5e00eb 0x5e00eb	PORT NAME 20:bb:0a:03:00:00:00:1d 20:00:00:25:b5:b0:25:2d 20:00:00:25:b5:b0:05:1f 20:00:00:25:b5:b0:05:3f 20:00:00:25:b5:b0:25:3f 20:00:00:25:b5:b0:05:1a 20:00:00:25:b5:b9:30:02 20:00:00:25:b5:b9:30:02	NODE NAME 50:01:23:45:44:55:66:cf 20:00:00:25:b5:a0:25:2e 20:00:00:25:b5:a0:05:1f 20:00:00:25:b5:a0:05:0f 20:00:00:25:b5:a0:05:01 50:01:23:45:44:55:66:bf 20:00:00:25:b5:a0:05:06	EXTERNAL INTERFACE fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1					
SERVER INTERFACE vfc3299 vfc3454 vfc3468 vfc3468 vfc3506 vfc3528 vfc3528 vfc3607 vfc3611 vfc3617	VSAN 1000 1000 1000 1000 1000 1000 1000 10	FCID 0x5e00ec 0x5e0105 0x5e00d8 0x5e00d2 0x5e0103 0x5e010a 0x5e00eb 0x5e00eb 0x5e00ca 0x5e00f4	PORT NAME 20:bb:0a:03:00:00:00:1d 20:00:00:25:b5:b0:25:2d 20:00:00:25:b5:b0:05:1f 20:00:00:25:b5:b0:25:3f 20:00:00:25:b5:00:05:1a 20:00:00:25:b5:b9:30:02 20:00:00:25:b5:b0:05:00 20:00:00:25:b5:b0:05:00	NODE NAME 50:01:23:45:44:55:66:cf 20:00:00:25:b5:a0:25:2e 20:00:00:25:b5:a0:05:1f 20:00:00:25:b5:a0:05:0f 20:00:00:25:b5:a0:05:01 50:01:23:45:44:55:66:bf 20:00:00:25:b5:a0:05:06 20:00:00:25:b5:a0:36:0f	EXTERNAL INTERFACE fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1					
SERVER INTERFACE vfc3299 vfc3454 vfc3468 vfc3468 vfc3506 vfc3506 vfc3528 vfc3607 vfc3611 vfc3617	VSAN 1000 1000 1000 1000 1000 1000 1000 10	FCID 0x5e00ec 0x5e0105 0x5e00d8 0x5e00d2 0x5e0103 0x5e010a 0x5e00eb 0x5e00ca 0x5e00f4	PORT NAME 20:bb:0a:03:00:00:00:1d 20:00:00:25:b5:b0:25:2d 20:00:00:25:b5:b0:05:1f 20:00:00:25:b5:b0:25:3f 20:00:00:25:b5:b0:25:1a 20:00:00:25:b5:b0:05:1a 20:00:00:25:b5:b0:05:00 20:00:00:25:b5:b0:05:00	NODE NAME 50:01:23:45:44:55:66:cf 20:00:00:25:b5:a0:25:2e 20:00:00:25:b5:a0:05:1f 20:00:00:25:b5:a0:05:0f 20:00:00:25:b5:a0:25:1e 20:00:00:25:b5:a0:05:01 50:01:23:45:44:55:66:bf 20:00:00:25:b5:a0:05:06 20:00:00:25:b5:a0:36:0f	EXTERNAL INTERFACE fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1 fc2/1					

Zorg ervoor dat FCID van het WWPN is toegewezen, en VSAN is correct.

2. U kunt ook vanuit de Cisco MDS-switch controleren of het WPN FLOGI heeft. SV-35-06-MDS9222i# show flogi database SV-35-06-MDS9222i# show fcns database

Controleer de zoning op de MDS-switch om er zeker van te zijn dat de vHBA (WPN) en het opslagdoelwit online zijn en in dezelfde zone liggen.

SV-35-06-MDS9222i# show zoneset active vsan 1000
SV-35-06-MDS9222i# show zoneset active vsan 1000 begin matao
zone name matao vsan 1000
pwwn 20:00:00:25:b5:b3:05:0f
* fcid 0x5e00ef [pwwn 50:06:01:62:44:60:44:fa] [SPA2]
* fcid 0x5e01ef [pwwn 50:06:01:6a:44:60:44:fa] [SPB2]
* fcid 0x5e00d2 [pwwn 20:00:00:25:b5:b0:05:3f]
* fcid 0x5e00d8 [pwwn 20:00:00:25:b5:b0:05:1f]
pwwn 20:00:00:25:b5:b5:05:0f 🛛 🛶 wwpn not online
pwwn 20:00:00:25:b5:b5:05:2f

Controleer of de vHBA het doel tijdens de SAN Boot kan zien.

Op UCS Manager, als het lemmet van SAN kan beginnen, zou de "Volwassenorde" van UCS Manager het WWPN van alle doelstellingen moeten kunnen zien.

Boot Order Details	8
Configured Boot Order Actual Boot Order	
There may be a delay of a few minutes before the actual boot order is updated.	
Last Update: 2012-12-01T00:22:50	
🗈 🖃 👄 Export 🃚 Print	
Name	
⊕-@ CD/DVD	
E-B HDD	
	E
🛶 🌼 (4) Elx 01 5006016A44 0044FA,00 04 0	
UCS should see the target WWPN	
III	•

Druk bij het opstarten van het lemmet op F2 om in het besturingssysteem te navigeren en naar de Boot Manager te navigeren. De IUN kan niet meer worden opgestart.



Voor de PALO-adapter kunt u in dit stadium (wanneer OS nog niet is gestart) ook verbinding maken met de adapter om te controleren of de vHBA FLOGI en PLOGI heeft.



Nadat het OS is opgestart, is de uitvoer anders. Dit wordt verwacht.



Voor een M71KR-E-adapter kunt u bij het starten van de server op controle + E drukken om het Emulex HBA-configuratieprogramma in te voeren. Selecteer vervolgens de vHBA en lijst het startapparaat. De vHBA zou het doelwit moeten kunnen zien.

	Adapter	01:	S_ID:	6E00AC	PCI	Bus,	Devi	ice, F	function	(04	,00,01)
	List of	Saved	l Boot	Devices:							
1. 2. 4. 5. 78. 8.	Used Used Unused Unused Unused Unused Unused Unused	DID: DID: DID: DID: DID: DID: DID: DID: DID: DID: 0		WWPN : 50060 WWPN : 50060 WWPN : 00000 WWPN : 00000 WWPN : 00000 WWPN : 00000 WWPN : 00000 WWPN : 00000 WWPN : 00000	9160 9468 9600 9600 9600 9600 9600	44604 44604 00000 00000 00000 00000 00000	4FA 900 000 000 000 000 000	LUN:6 LUN:6 LUN:6 LUN:6 LUN:6 LUN:6 LUN:6	0 Prim 0 0 0 0 0 0	ary	Boot
								UN ID	L		
	Select a	a Boot	t Entr <u>ı</u>): _					dej		booting device
Ent	er <x> to</x>	D Exit	-	<esc></esc>	to 1	Previo	us M	lenu			

Controleer of de vHBA de juiste LUN-ID heeft om vanuit SAN te starten.

Het Opstartbeleid dat bij het serviceprofiel is gekoppeld, heeft de startconfiguratie. Zorg dat het WPN van het doel juist is en dat de LUN-id ook overeenkomt met de LUN die in de opslag is gedefinieerd.

Name	Order	VNIC/VHBA/ISCSI VNIC	Туре	Lun ID	YOWN .	_
@ CD-ROM	1					
3- 📃 Storage	2					
🖶 🚍 SAN primary		fc1	Primary			
SAN Target primary			Primary	0	50:06:01:60:44:60:44:FA	
da 🚽 anna 👘 👘		E-0	Secondary			
🖃 🚍 SAN secondary		100	Decention y			
SAN Secondary	Denting 77	NID should watch she	Primary	0	50:06:01:62:44:60:44:FA	
SAN secondary	Booting LL	/N ID should match the	Primary Host ID from th	0 he storage c	50:06:01:62:44:60:44:F	A

Dan is er nog een voorbeeld voor EMC-opslag. In het opslagvak wordt de LUN 1301 aan de host in kaart gebracht met ID 0, die overeenkomt met de ID die in het beginbeleid is gedefinieerd.

Seperal LUNS Hosts										
Seneral LUNs	Hosts									
Show LUNs: Not	in other Storag	e Groups 🚩								
Available LUNs —										
Name 🛆	ID	Capa	city	Drive Type						
⊕– ∰ MetaLUNs ⊕– ∰ SP A ⊕– ∰ SP B										
				Add						
Selected LUNs	ID	Capacity	Drive Type	Host ID						
Selected LUNs — Name LUN 1301	ID 1301	Capacity 10.000 GB	Drive Type FC	Host ID						
Selected LUNs — Name LUN 1301 LUN 1302	ID 1301 1302	Capacity 10.000 GB 40.000 GB	Drive Type FC FC	Host ID						
Selected LUNs — Name LUN 1301 LUN 1302 LUN 1305	ID 1301 1302 1305	Capacity 10.000 GB 40.000 GB 50.000 GB	Drive Type FC FC FC	Host ID 0 1 3						
Selected LUNs — Name LUN 1301 LUN 1302 LUN 1305	ID 1301 1302 1305 make sure	Capacity 10.000 GB 40.000 GB 50.000 GB the LUN is mappe	Drive Type FC FC FC FC	Host ID 0 1 3						
Selected LUNs	ID 1301 1302 1305 make sure right Host	Capacity 10.000 GB 40.000 GB 50.000 GB the LUN is mappe ID	Drive Type FC FC FC FC d to the host wi	Host ID 0 1 3 ith the						
Selected LUNs	ID 1301 1302 1305 make sure right Host	Capacity 10.000 GB 40.000 GB 50.000 GB the LUN is mappe ID	Drive Type FC FC FC od to the host wi	Host ID 0 1 3 <i>ith the</i> <u>R</u> emove						
Selected LUNs	ID 1301 1302 1305 <i>make sure</i> <i>right Host</i> nbers higher that vare.	Capacity 10.000 GB 40.000 GB 50.000 GB <i>the LUN is mappe</i> ID n 255 may result in ap	Drive Type FC FC FC ad to the host with plication outages in	Host ID 0 1 3 <i>ith the</i> <u>R</u> emove f not supported by the						

Controleer of het FC-doel de vHBA (WPN) kan zien en of het PLOGI tot het doel heeft.

 Joyce_BFS [10.66.71.223; Fibre; Manually registered] None Assigned Joyce_BFS [10.66.71.220; Fibre; Manually registered; Host Agent)oyce-BFS Joyce_BFS_2 [10.66.71.241; Fibre; Manually registered; Host AgOnyce_BFS_2 Uoyds-1 [10.67.80.141; Fibre; Manually registered; Host Agent n None Assigned Uoyds-2 [10.67.80.142; Fibre; Manually registered; Host Agent n None Assigned Loodhost [10.66.87.126; Fibre; Manually registered] jinkkim-esx-51 	Store	age see all t	he vHBA	paths
Imatao-u172-c1-b3 [10.56.87.194; Fibre; Manually registered; H0 matao_stroage_grp1				- 1
- 20:00:00:25:85:40:05:07:20:00:00:25:85:80:05:27	Tes	Yes	A-0	Fibre
- 20:00:00:25:85:A0:05:0F:20:00:00:25:85:80:05:2F	Yes	Yes	B-0	Fibre
- 🦉 20:00:00:25:85:A0:05:0F:20:00:00:25:85:80:05:3F	Yes	Yes	A-2	Fibre
- # 20:00:00:25:85:A0:05:07:20:00:00:25:85:80:05:3F	Yes	Yes	B-2	Fibre
🖓 💭 matao-ucs250-c4-b7 [10.66.87.196; Fibre; Manually registered; hmatao_storage_grp2				
20:00:00:25:85:A0:05:1F:20:00:00:25:85:80:05:0F	Yes	Yes	A-0	Fibre
- 20:00:00:25:85:A0:05:1F:20:00:00:25:85:80:05:0F	Yes	Yes	B-0	Fibre
- # 20:00:00:25:85:A0:05:1F:20:00:00:25:85:80:05:1F	Yes	Yes	A-2	Fibre
20:00:00:25:B5:A0:05:1F:20:00:00:25:B5:B0:05:1F	Yes	Yas	B-2	Fibre

Controleer of Cisco-aangepaste ESXi-afbeelding is gebruikt voor SAN-accelerator.

Als ESXi de LUN niet op SAN ziet terwijl vHBA de LUN niet ziet tijdens de beginfase, is het waarschijnlijk dat de ESXi-afbeelding niet de juiste stuurprogramma heeft. Controleer of de klant de Cisco eigen ESXi-afbeelding gebruikt. Ga naar de VMware website en zoek naar "Cisco ESXi" om de aangepaste Cisco-afbeelding te downloaden.

Cisco aangepast beeld voor ESXi 5.1.0

https://my.vmware.com/web/vmware/details?downloadGroup=CISCO-ESXI-5.1.0-GA-25SEP2012&productId=285

Cisco aangepast beeld voor ESXi 5.0.0 U1

https://my.vmware.com/web/vmware/details?downloadGroup=CISCO-ESXI-5.0.0-U1-28AUG2012&productId=268

Cisco aangepast beeld voor ESXi 4.1 U2

https://my.vmware.com/web/vmware/details?downloadGroup=OEM-ESXI41U2-CISCO&productId=230

vSphere 5.0 Rollp ISO-beelden (biedt een installatiebaar ESXi ISO-beeld dat stuurprogramma's bevat voor verschillende producten die door VMware-partners worden geproduceerd), bijvoorbeeld C220 M3-server, CIMC 1.46c en LSI 9266-8i. Zelfs de aangepaste ESXi-afbeelding heeft niet het stuurprogramma om lokale opslag te detecteren.

https://my.vmware.com/web/vmware/details?downloadGroup=ROLLUPISO_50_2&productId=229

Raadpleeg ook de opmerkingen voor de omhulling

http://www.vmware.com/support/vsphere5/doc/vsphere-esxi-50-driver-rollup2-release-notes.html

Controleer of ESXi dezelfde juiste etnische chauffeur gebruikt.

Schakel SSH en ESX SHELL in en aanmelding bij de ESXi-host. Ren dan vmkload_mod -s fnic.



Controleer of de host alle paden naar het opslagdoel van VMware ESXi kan zien.

1. Controleer de LUN-informatie die door een vHBA kan worden bekeken. ~ # esxcfg-scsidevs -c

Device UTD

Device Size Multipath PluginDisplay Name naa.6006016081f0280000e47af49150e111 Direct-Access /vmfs/devices/disks/naa.60060 16081f0280000e47af49150e111 40960MB NMP DGC Fibre Channel Disk (naa.600601608 1f0280000e47af49150e111) naa.6006016081f028007a6ffec12985e111 Direct-Access /vmfs/devices/disks/naa.600601 6081f028007a6ffec12985e111 51200MB NMP DGC Fibre Channel Disk (naa.6006016081f 028007a6ffec12985e111) naa.6006016081f02800ca79c3b09150e111 Direct-Access /vmfs/devices/disks/naa.600601 6081f02800ca79c3b09150e111 10240MB NMP DGC Fibre Channel Disk (naa.6006016081f 02800ca79c3b09150e111)

Controleer welke vHBA kan zien welke LUN's zijn.

```
~ # esxcfg-scsidevs -A
vmhbal naa.6006016081f0280000e47af49150e111
vmhbal naa.6006016081f028007a6ffec12985e111
vmhbal naa.6006016081f02800ca79c3b09150e111
vmhba2 naa.6006016081f028000a47af49150e111
vmhba2 naa.6006016081f028007a6ffec12985e111
vmhba2 naa.6006016081f02800ca79c3b09150e111
```

In dit voorbeeld hierboven kunnen zowel vmhba1 als vmhba2 de 3 LUN's zien.

3. Controleer de paden naar de LUN's.

```
~ # esxcfg-mpath -b
naa.6006016081f0280000e47af49150e111 : DGC Fibre Channel Disk (naa.6006016081f02800
00e47af49150e111)
  vmhba1:C0:T0:L1 LUN:1 state:active fc Adapter: WWNN: 20:00:00:25:b5:a0:05:0f WWPN:
  20:00:00:25:b5:b0:05:3f Target: WWNN: 50:06:01:60:c4:60:44:fa WWPN: 50:06:01:6a:
  44:60:44:fa
  vmhba1:C0:T1:L1 LUN:1 state:active fc Adapter: WWNN: 20:00:00:25:b5:a0:05:0f WWPN:
  20:00:00:25:b5:b0:05:3f Target: WWNN: 50:06:01:60:c4:60:44:fa WWPN: 50:06:01:62:
  44:60:44:fa
  vmhba2:C0:T0:L1 LUN:1 state:active fc Adapter: WWNN: 20:00:00:25:b5:a0:05:0f WWPN:
  20:00:00:25:b5:b0:05:2f Target: WWNN: 50:06:01:60:c4:60:44:fa WWPN: 50:06:01:60:
  44:60:44:fa
  vmhba2:C0:T1:L1 LUN:1 state:active fc Adapter: WWNN: 20:00:00:25:b5:a0:05:0f WWPN:
  20:00:00:25:b5:b0:05:2f Target: WWNN: 50:06:01:60:c4:60:44:fa WWPN: 50:06:01:68:
  44:60:44:fa
naa.6006016081f028007a6ffec12985e111 : DGC Fibre Channel Disk (naa.6006016081f028007a
6ffec12985e111)
  vmhba1:C0:T0:L3 LUN:3 state:active fc Adapter: WWNN: 20:00:00:25:b5:a0:05:0f WWPN:
  20:00:25:b5:b0:05:3f Target: WWNN: 50:06:01:60:c4:60:44:fa WWPN: 50:06:01:6a:
  44:60:44:fa
  vmhba1:C0:T1:L3 LUN:3 state:active fc Adapter: WWNN: 20:00:00:25:b5:a0:05:0f WWPN:
  20:00:00:25:b5:b0:05:3f Target: WWNN: 50:06:01:60:c4:60:44:fa WWPN: 50:06:01:62:
  44:60:44:fa
  vmhba2:C0:T0:L3 LUN:3 state:active fc Adapter: WWNN: 20:00:00:25:b5:a0:05:0f WWPN:
  20:00:00:25:b5:b0:05:2f Target: WWNN: 50:06:01:60:c4:60:44:fa WWPN: 50:06:01:60:
  44:60:44:fa
  vmhba2:C0:T1:L3 LUN:3 state:active fc Adapter: WWNN: 20:00:00:25:b5:a0:05:0f WWPN:
  20:00:00:25:b5:b0:05:2f Target: WWNN: 50:06:01:60:c4:60:44:fa WWPN: 50:06:01:68:
  44:60:44:fa
naa.6006016081f02800ca79c3b09150e111 : DGC Fibre Channel Disk (naa.6006016081f02800ca
79c3b09150e111)
  vmhba1:C0:T0:L0 LUN:0 state:active fc Adapter: WWNN: 20:00:00:25:b5:a0:05:0f WWPN:
  20:00:00:25:b5:b0:05:3f Target: WWNN: 50:06:01:60:c4:60:44:fa WWPN: 50:06:01:6a:
  44:60:44:fa
  vmhba1:C0:T1:L0 LUN:0 state:active fc Adapter: WWNN: 20:00:00:25:b5:a0:05:0f WWPN:
  20:00:00:25:b5:b0:05:3f Target: WWNN: 50:06:01:60:c4:60:44:fa WWPN: 50:06:01:62:
  44:60:44:fa
  vmhba2:C0:T0:L0 LUN:0 state:active fc Adapter: WWNN: 20:00:00:25:b5:a0:05:0f WWPN:
  20:00:00:25:b5:b0:05:2f Target: WWNN: 50:06:01:60:c4:60:44:fa WWPN: 50:06:01:60:
  44:60:44:fa
  vmhba2:C0:T1:L0 LUN:0 state:active fc Adapter: WWNN: 20:00:00:25:b5:a0:05:0f WWPN:
```

20:00:00:25:b5:b0:05:2f Target: WWNN: 50:06:01:60:c4:60:44:fa WWPN: 50:06:01:68: 44:60:44:fa

In dit voorbeeld zijn er vier paden voor elke LUN: twee van vmhba1 en twee van vmhba2.

Gerelateerde informatie

<u>Technische ondersteuning en documentatie – Cisco Systems</u>