Veeam Firewall VIB for Cisco HyperFlex

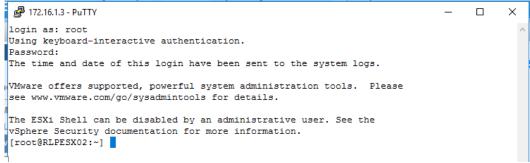
Author: Stefan Renner, 26.04.2017

The VeeamCiscoHXFirewall.vib opens the required firewall ports on vSphere to get Veeam access to the IOVisor of Cisco HyperFlex. We recommend to assign the Veeam Proxy Server IPs to the rule after installing the VIB. The Firewall rule is persistent after a ESXi reboot. The Firewall rule is enabled by default after installation. The VIB does not require a reboot for installation.

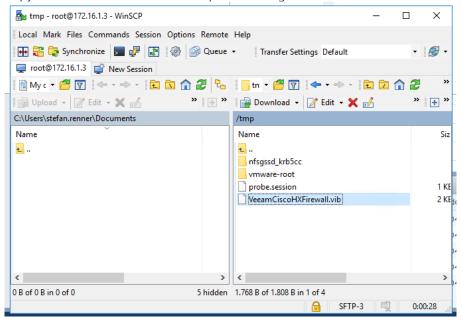
Install the Firewall VIB on ESXi:

Repeat the following steps on all Cisco HyperFlex nodes in your cluster.

1. Enable ssh and login to your ESXi host by using a ssh tool like putty



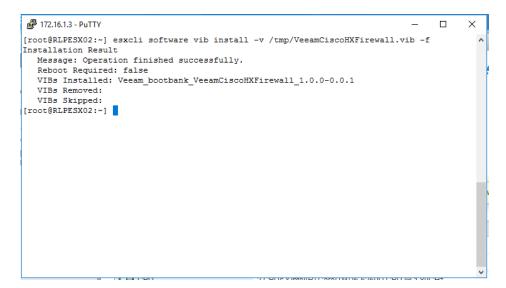
2. Copy the VIB file to the ESXi hosts tmp folder using HTTP or a SCP client



3. Install the VIB

Command:

esxcli software vib install -v /tmp/VeeamCiscoHXFirewall.vib -f



4. Verify the VIB was installed

Command:

esxcli software vib list | grep 'Veeam'

```
## 172.16.1.3 - PuTTY - - X

[root@RLPESX02:~] esxcli software vib list | grep 'Veeam'

VeeamCiscoHXFirewall 1.0.0-0.0.1 Veeam CommunitySupp

orted 2017-04-26

[root@RLPESX02:~]
```

5. Verify the new firewall rule is active

Command:

esxcli network firewall ruleset list



Note: If the VIB installation fails, you might need to set the acceptance level to CommunitySupport and retry the installation Command: esxcli software acceptance set --level=CommunitySupported

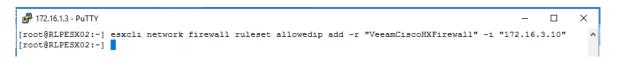
Recommended: Set the Veeam Proxy Servers

1. Enable allowed ip list for the new firewall rule Command:

esxcli network firewall ruleset set -r "VeeamCiscoHXFirewall" -a false

2. Set the Veeam proxy server data network IP (storage network)
Repeat the following command for all Veeam proxy server or set a subnet.

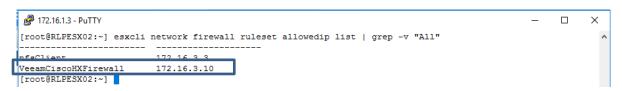
Command: esxcli network firewall ruleset allowedip add -r "VeeamCiscoHXFirewall" -i "172.16.3.10"



3. Verify the IPs are set

Command:

esxcli network firewall ruleset allowedip list | grep -v "All"



Note: Veeam recommends to set the all IPs of Veeam proxy servers in the firewall rule. Otherwise the firewall rule is enabled for all incoming connections. You can specify either the IP address or a subnet. Use one command per proxy.

Checks if everything is correctly configured

1. Check the Security Profile on the ESXi hosts

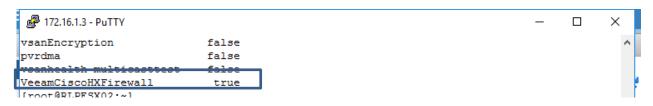
Licensed Features	Firewall		
Time Configuration	Incoming Connections		
DNS and Routing	vSphere Web Access	80 (TCP)	All
-	SNMP Server	161 (UDP)	All
Authentication Services	CIM Secure Server	5989 (TCP)	All
Virtual Machine Startup/Shutdown	Fault Tolerance	8300 (TCP)	All
Virtual Machine Swapfile Location	DNS Client	53 (UDP)	All
Security Profile	VeeamCiscoHXFirewall	0-65535 (TCP)	172.16.3.10
Host Cache Configuration	DVSSync	8301,8302 (UDP)	All
	CIM Server	5988 (TCP)	All
System Resource Reservation	SSH Server	22 (TCP)	All
Agent VM Settings	NFC	902 (TCP)	All
Advanced negative	c. k Wk. ol:k	000 440 (TCD)	A 11

2. Check the VIB

esxcli software vib list | grep 'Veeam'

3. Check the ruleset

esxcli network firewall ruleset list



4. Check which Veeam Proxy IPs are assigned