# **Troubleshooting Guide**

#### 1. Failed to add VMware NSX host

- Please check configuration or practical examples related with NSVM service in vCenter to make sure if they are deleted first, and please read chapter 13 "Un stall the security module of host" in this file.
- 2) Enter into the page of NSX Manager to make sure that if the service status of vPostgres, RabbitMQ and NSX Management Service are correct.

#### Common components

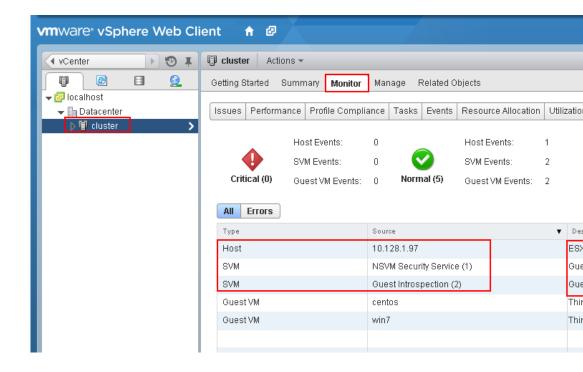
	Name		Version
	vPostgres		
	RabbitMQ		

#### **NSX Management Components**

	Name	Version
	NSX Universal Synchronization Service	
	NSX Management Service	6.2.7 Build 5343628

### 2. The VM cannot kill virus.

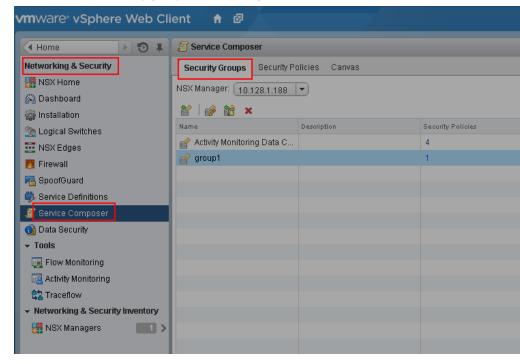
1) First Login Vcenter Vsphere Web Client, select "cluster" in the page of " local host and cluster", then enter into the page of " Monitor-Guest Introspection", and check if the description and status of host, NSVM Security Service, Guest Introspection are correct.



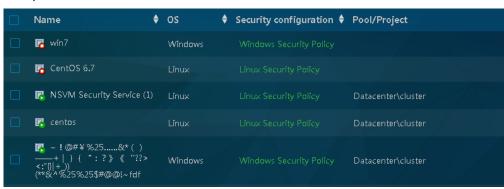
2) Then according to the VM operating system for troubleshooting.

#### Windows VM

Enter into the page of "Networking & Security" – "Service Composer "–"Security Groups" in vCenter vSphere Web Client, and click the value of VM in the Security Groups, then check if the windows VM is included in the security groups in the dialog box.



b) Check if the configuration applied in this windows VM have turned on "Real-time protection". Login management center, enter into the page of "Asset Management- VM/Terminal" to check the status of "Real-time protection". If the status is not "Real-time protection on", please change the security configuration matched and turn on "Realtime protection".



- c) Then check if this VM has already installed with VMware tools and "NSX File Introspection Driver" by custom installation.
- d) In the command line of VM to run "scquery vsepflt" and check if the service is existing. The following picture1 shows that is normal; the picture2 shows the service is unavailable.

Service is normal:

```
C:\Windows\system32\cmd.exe
                                                                           - - X
licrosoft Windows [版本 6.1.7601]
版权所有 (c> 2009 Microsoft Corporation。保留所有权利。
 : Wsers admin>sc query vsepflt
SERUICE_NAME: usepflt
                                 FILE_SYSTEM_DRIVER
        STATE
                                 RUNNING
                                 (STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
                            : 0 (0x0)
        WIN32_EXIT_CODE
        SERVICE_EXIT_CODE
                            : 0 (0x0)
        CHECKPOINT
                            : 0x0
        WAIT_HINT
 : Wsers admin}_
```

Service is unavailable, please install VMware tools again:

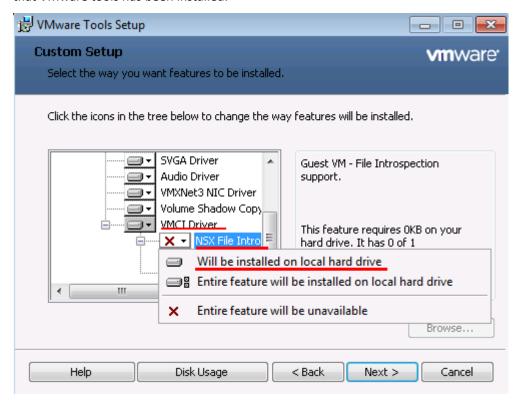
```
Microsoft Windows XP [版本 5.1.2600]
(C) 版权所有 1985-2001 Microsoft Corp.

C:\Documents and Settings\admin>sc query vsepflt
[SC] EnumQueryServicesStatus:OpenService FAILED 1060:

C:\Documents and Settings\admin>_
```

e) If the service is unavailable, please install VMware tools again, and select the driver of NSX File Introspection under "VMCI driver" by custom installation. After installation, reboot VM and make sure

that VMware tools has been installed.



Versions before vSphere 5.5 U2 should search "VMCI driver", and select to install "vShield Drivers" to local disk

Find "VMCI driver" and select "vShield Drivers" to install it in local disk.

PS: If there is not "NSX File Introspection Driver" or the option of "vShield Drivers" like the picture above in the dialog box of "VM ware Tools", which means that the version of VMware Tools is old, you need download the new version of VMware Tools. And this is the website: <a href="https://packages.vmware.com/tools/esx">https://packages.vmware.com/tools/esx</a>

f) Check the security VM of host. Login this security VM through console or SSH and execute the command of "ifconfig-a", and the IP of eth1 is as following:

g) Test security and the communication of VM. You can ping the IP169.254.1.1 of vmsevice-nvmsec-pg from security VM. Security process monitors TCP48651 port of this machine. If the protected VM is enabled, it will connect with local 8000 port.

```
[root@nsvm ~]# netstat -an
Active Internet connections (servers and established)
Foreign Address
                                                                                                 0.0.0.0:
                                                                                                  0.0.0.0:
                                                                                                  0.0.0.0:*
                                                                                                  0.0.0.0:*
                                    0 0.0.0.0:22
0 127.0.0.1:25
0 10.128.1.117:38392
0 10.128.1.117:38384
0 10.128.1.117:38408
0 10.128.1.117:38408
0 10.128.1.117:38390
0 10.128.1.117:38394
0 10.128.1.117:38398
0 10.128.1.117:38398
                                                                                                 0.0.0.0:*
tcp
                      0
                                                                                                 10.128.0.101:8443
10.128.0.101:8443
10.128.0.101:8443
tcp
                      0
tcp
                      ō
tcb
                      0
                                                                                                 10.128.0.101:8443
tcp
tcp
                      0
                                                                                                 10.128.0.101:8443
                                                                                                 10.128.0.101:8443
10.128.0.101:8443
tcp
tcp
                      0
                                                                                                 10.128.0.101:8443
tcp
                                   0 10.128.1.117:38398
0 169.254.1.168:48651
0 10.128.1.117:38400
0 169.254.1.168:48651
0 10.128.1.117:38380
0 169.254.1.168:48651
0 10.128.1.117:38410
0 10.128.1.117:38382
0 10.128.1.117:38388
0 10.128.1.117:38388
0 10.128.1.117:38400
0 10.128.1.117:38400
tcp
                      0
                                                                                                 169.254.1.1:34837
                                                                                                 10.128.0.101:8443
169.254.1.1:33439
10.128.0.101:8443
tcp
                      0
tcp
tcp
                                                                                                 169.254.1.1:19809
tcp
                      ō
tcp
                                                                                                 10.128.0.101:8443
                                                                                                 10.128.0.101:8443
10.128.0.101:8443
10.128.0.101:8443
tcp
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tcb
                                                                                                 10.128.0.101:8443
tcp
                                    0 10.128.1.117:22
0 10.128.1.117:38404
0 169.254.1.168:48651
tcp
                      0
                                                                                                 10.128.1.129:55987
tcp
                      0
                                                                                                 10.128.0.101:8443
169.254.1.1:59831
                      ō
tcp
tcp
                                    0 :::22
```

## Linux VM

- Make sure if the operating system of linux VM is supported, refer to Appendix-Linux OS lists of support.
- b) Enter into the page of "Networking & Security"- "Service Composer"-"Security Groups "in vCenter vSphere Web Client, click the value of "VM" lists in the page of security groups, then check if the Linux VM is included by security groups in the dialog box.

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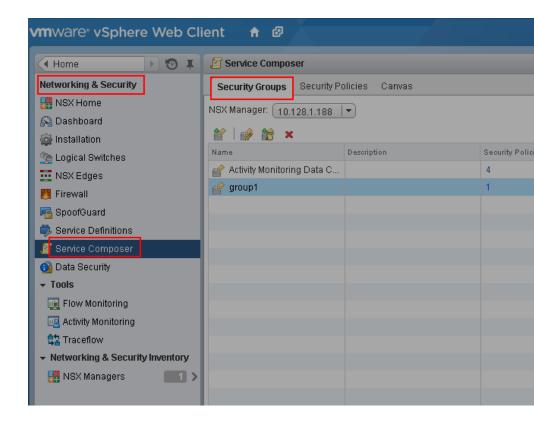
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- c)
  Check if the configuration applied in this linux VM have turned on "Real-time protection". Login management center, enter into the page of "Asset Management-VM/Terminal" to check the status of "Real-time protection". If the status isn't "Real-time protection on", please change the security configuration matched and turn on "Real-time protection".
- d) Enter into the command line of linux VM, check through the command of service vseped status if the service status of vseped is correct, and the normal is running.