
Versa Director Issues

 For supported software information, click [here](#).

This article discusses how to troubleshoot issues with Director nodes.

Communication Issues between CPE Devices and Director Nodes

To troubleshoot connectivity issues between customer premise equipment (CPE) devices and Director nodes:

1. To check whether Netconf is running on the CPE device, issue the **netstat -ntua | grep 2022** Linux command. For example:

```
admin@Branch1-10-192-125-49~$ netstat -ntua | grep 2022
tcp 0 0 0.0.0.0:2022 0.0.0.0:* LISTEN
```

2. To check the reachability of the CPE device's IP address and Netconf port from the Director node, issue the **/opt/versa/vnms/scripts/netconf-check.sh ip-address** shell command. When the command completes successfully, the following message displays:

```
===== SUCCESS: IPAddress and NetConf port is reachable and also able to do basic handshake=====
```

3. To check whether routes are present on the Director node towards the CPE device, issue the **route -n** Linux command. For example:

```
Administrator@Director:~$ route -n
10.0.0.0 192.168.43.1 255.0.0.0 UG 0 0 0 eth1
```

4. On the Controller node, issue the **show configuration system session | display set** CLI command to enable tcp-adjust-mss (that is, set it to true) and disable check-tcp-syn (that is, set it false). For example:

```
admin@Controller1-cli> show configuration system session | display set
set system session check-tcp-syn false
set system session tcp-adjust-mss enable true
```

5. On the Director node, issue the **show devices device device-name netconf-notifications subscription** CLI command to check the Netconf notification subscription status. For example:

```
Administrator@VDir> show devices device Branch-1 netconf-notifications subscription status
NAME          STATUS
-----
voae_oam_subscr running
```

6. Check whether the firewall service is enabled on Controller nodes. If it is enabled, make sure that objects and allow policies are in place.
7. To ensure that the default value of the IPsec tunnel MTU is configured with a value of 1336 or less, issue the **show interfaces detail tvi-0/2 | grep mtu** CLI command. For example:

```
admin@Controller1-cli> show interfaces detail tvi-0/2 | grep mtu
MTU : 1336
```

Connectivity Issues between Director and Analytics Nodes

To troubleshoot connectivity issues between Director and Analytics nodes:

1. To ensure that the Director hostname is correct while installing the Director certificate on the Analytics Nodes, issue the **sudo /opt/versa/scripts/van-scripts/van-vd-cert-install.sh./versa_director_client.cer director-hostname** Linux command.
2. To ensure that port 9182 is listening on the Analytics interface that is communicating with the Director node, issue the **netstat -ntua | grep 9182** Linux command in the Director shell. For example:

```
Administrator@VDir:~$ netstat -ntua | grep 9182
tcp6 0 0 10.192.125.42:9182 :::* LISTEN
Administrator@VDir:~$
```

HA Issues

To troubleshoot Director high availability issues:

1. Ensure that the software build is same on both the primary and secondary Director nodes, and ensure that the entries in `/etc/hostname` and `/etc/hosts` are consistent.

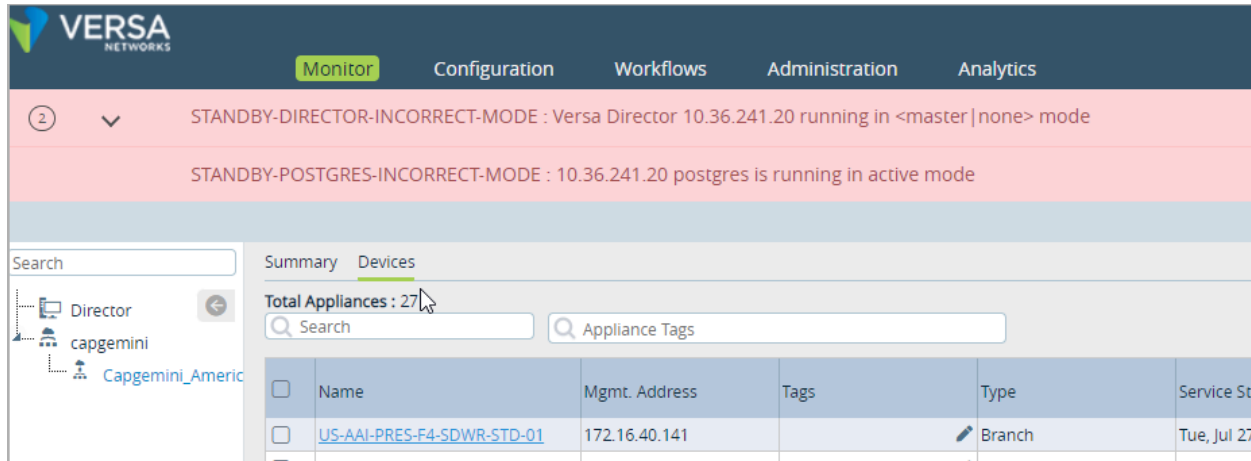
Note: In some scenarios, you have to enter the hostname of the peer node in `/etc/hosts` before configuring HA. You have to do this manually, because it is not performed by the `vnms-startup` script.

2. To check the current HA status on both the primary and secondary Director nodes, issue the **request vnmsha actions status** CLI command.
3. To check the current HA details on both the primary and secondary Director nodes, issue the **request vnmsha actions get-vnmsha-details fetch-peer-vnmsha-details true** CLI command. For example:

```
Administrator@versa-director> request vnmsha actions get-vnmsha-details fetch-peer-vnmsha-details
true
peer-vnmsha- detail {
mgmt-ip- address 8.8.8.2
Administrator@versa-director:~$ cat /etc/hosts
8.8.8.2 versa-director
```

4. To ensure that you can establish an SSH between the primary and secondary Director nodes, issue the **request vnmsha actions get-vnmsha-postgres-status** command.
5. Ensure that all ports required for HA communication are open. For more information, see [Firewall Requirements](#).

6. In rare cases, a split-brain situation may occur on the Director node, in which both nodes appear in the active state. If this occurs you might see the following message on both Director nodes:



To resolve this issue, log in to both Director nodes and issue the following CLI command:

```
> request vnmsha actions disable-ha
```

Then, you must manually reconfigure Director HA from the node that has the latest configuration.

TACACS+ Issues

To troubleshoot the Director TACACS+ issues:

1. Log in by affixing @System for system users and @orgName for tenant users.
2. Configure TACACS+ as the default connector.
3. Configure TACACS+ as an authentication connector for the organization.
4. To start a TACACS+ client from the CLI, issue the `$ /opt/versa/vnms/scripts/tac_plus_client $tacacs_ipaddress $tacacs_port $tacacs_secret $userName $passwd` command.

Tools Not Working on Director Monitor Screen

The ping, tcpdump, and traceroute functions are not activated when you click Start/Stop from the Monitor tab in the Versa Director. To enable them, you must run the WWW service in the branch configuration. By default, the WWW service is disabled.

To enable the WWW service in a branch configuration:

1. In Director view, select a device.
2. In Appliance view, select the Configuration tab in the top menu bar.
3. Select Others > System > Configuration > Configuration in the left menu bar to view the branch configuration.

Monitor

Configuration

Administration

Home

Branch1

Organization

System

Configuration

Security Package Up...

Time & Date

Storage Configurations

Appliance User M...

Elasticity

Service Nodes

Syslog Server

Alarms

High Availability

VNFs

Identification

Subjugation

VNF Manager

Fix Usb Port Affinity

Services

Name : Branch1

Location : Kolkata, india

Enabled : ☒

Allow CLI : ☒


IP Address/Prefix : 172.16.80.100/32

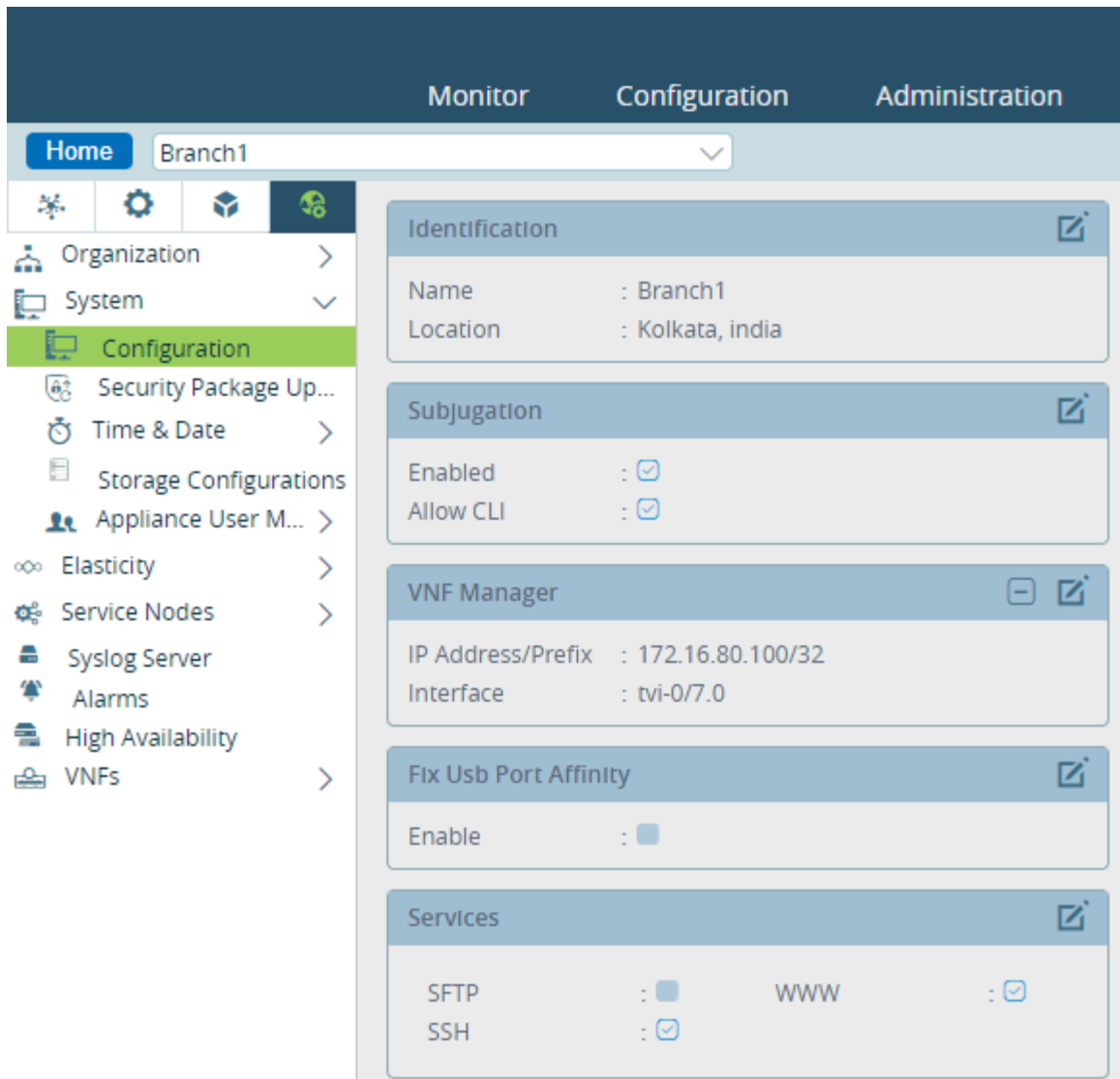
Interface : tvi-0/7.0

Enable : ☐

SFTP : ☐ WWW : ☒

SSH : ☒

4. In the Services pane, click the  Edit icon.



5. Click WWW to enable the WWW service.

If you get the Connected message in the results section followed by the Accept SSL certificate error message:

1. Click the link to accept the certificate.
2. Log out from the Versa Director.
3. Log in to the Versa Director.

The service is now connected and you can start using them.



Errors while Deploying a New Organization

When you add an interface configuration to a new Controller node during the onboarding process, the interface configuration is automatically added to the Controller node. However, when you add an interface configuration to an

existing Controller node, the newly added interface is added only to new organizations, but not to the existing organizations, and the following errors display:

- Failed to on-board org for controller
- com.versa.vnms.cdbadaptor.common.exception. ProcessingFailureException: Failed to populate customer org data

To resolve these errors, add the interface configurations to site configuration:

1. Log in to Versa Director.
2. In Director view, select the device.
3. In Appliance view, select the Configuration tab in the top menu bar.
4. Select Services > SD-WAN > System > Site Configuration in the left menu bar.
5. Select Site Configuration window and click the  Edit icon. The Edit Site Configuration popup window displays.
6. Click the  Add icon in the WAN Interfaces table.
7. In the Add WAN Interfaces popup window, add information about the interface.

Branch Out of Sync with Director Node

A device is considered out of sync when it becomes reachable from the Director node and the "SSH host key-mismatch" error message displays.

To resolve the issue:

1. Compare the key of the Branch that is in sync with the key of the problematic branch.
2. If it does not match, issue the **.ssh\$ pwd** command, note the path, and enter the working branch key to the out of sync branch on the same path.

```
admin@Versa-CPE:~/.ssh$ pwd
/home/admin/.ssh
ssh-dss
AAAAB3NzaC1kc3MAAACBALP7ajSyNetN18XZrpmrhyMcqWVAjwrgiyN8mwsdfCAN0iEQr0QIRh4JeHkV+
VciaS6JvzwjtcWaZiu++KVJlazei4JUusqjVxTA5GjzfdHSaNR8XEx7g1ovfQXjTKYqI1ew+YoLcI7+FypjnKfYV/
FtKOuEqLAE25dL3QdvAAAAFQCYMXGDJcPUiV3poMJQk1gNHx1mvQAAAIAPzOG05h4BbD5ULK4XJnEnnzBkBfnjI7j
GWLH9jshx1Uz6PMKGZK/
WyvTgmwmD8jIBMma5sAZv+lr9kTza6g9tP5Mn6KlvhXGHvIRpIQM0+oELUaOZAAAAIAp3HsgMWZ+
g2fNj4gaYYzLxtS9CreWGxOyeec+Efh+7GxEAzh8FvL7t+
dzoLb0QFvaB6xIsmjtk9NJn9Xmt0tfue0nDDPHNmTq8ak8zFJs5mBQEM4C3aYiOB/
7WQRTOYTLBzhCPQC6a3m/RHyaScm1OqV9fbhDbzOEwWQcpg== root@versa-director
```

Disk Utilization Problems

If the disk utilization of any of the Director partitions is greater than 70 percent, a disk utilization warning is displayed on

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Troubleshooting/Versa_Director_Issues

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the Director screen. To reduce disk space usage, you can do any of the following

- Clean up log files in the `/var/log/vnms` folder—You can delete old logs that have been archived. To do this, run the following CLI command:

```
| user@Director:~$ sudo find /var/log/vnms -name "*.gz" -delete
```

You can also selectively delete log files that you do not use, but you should exercise caution so as not to delete files erroneously.

- Delete old packages that you no longer need—There may be old upgrade packages from Versa Director or VOS devices on the Director node. To delete images that were uploaded through the GUI, in the Director GUI, select the Administration tab in the top menu bar and then select Inventory > Images in the left menu bar. To delete images that were uploaded through the CLI, go to the `/var/versa/packages/vnms` and `/var/versa/packages/device/` directories and selectively delete the old packages.
- Delete old service packages (SPacks) and OS SPacks—To delete old SPacks and OS SPacks, in the Director GUI, select the Administration tab in the top menu bar and then select Inventory > Security Packages and Inventory > OS Security Packages in the left menu bar. If the Director GUI is not available because of high disk utilization (100%), you can manually delete the unnecessary SPacks and OS SPacks from the `/var/versa/packages` directory.
- Delete temporary files—To delete all the contents of the `/var/tmp` and `/tmp` directories:

```
| user@Director:~$ rm -rf /var/tmp* /tmp*
```

- Reduce the number of backup files stored on the Director node—You can delete all backup files that are older than 2 days, or you can copy the backup files to a remote device. Backup files are in the `/var/versa/backups` directory.
- Check which directories are using a lot of disk space, and remove contents from them if possible—To check the directories, run the following command:

```
| user@Director:~$ sudo du -hd 1 path 2> /dev/null
```

For example:

```

[Administrator@cloud-demo: ~] $ sudo du -hd 1 / 2>/dev/null
684K    /run
12K     /.pip
25M     /tmp
0       /proc
4.0K    /mnt
62G     /var
20K     /.gnupg
2.3G    /opt
1.3M    /root
557M    /lib
4.0K    /srv
9.6M    /bin
12K     /dev
4.0K    /lib64
16K     /lost+found
76M     /boot
8.7M    /etc
0       /sys
2.1G    /usr
2.3G    /home
12K     /media
4.0K    /huge
11M     /sbin
4.0K    /alt-var
69G     /
[Administrator@cloud-demo: ~] $ sudo du -hd 1 /var 2>/dev/null
16K     /var/lost+found
4.0K    /var/agentx
3.4G    /var/log
3.2G    /var/lib
4.0K    /var/opt
268M    /var/tmp
4.0K    /var/mail
32K     /var/spool
2.0M    /var/backups
14M     /var/cache
55G     /var/versa
4.0K    /var/local
20K     /var/www
62G     /var
[Administrator@cloud-demo: ~] $

```

- Reduce the amount of disk space used by the Postgres database—To check how much disk space PostgreSQL is using, run the following command:

```

user@Director:~$ sudo du -kh -d1 /var/lib/postgresql/9.5/main/

```

If you determine that Postgres is using too much space on the hard drive, clean up the database:

1. Run the following command:

```

user@Director:~$ sudo su - postgres

```

2. Locate the REDO WAL file string:


```
user@Director:~$ /usr/lib/postgresql/9.5/bin/pg_controldata /var/lib/postgresql/9.5/main | grep "REDO WAL file"
```

For example:

```
postgres@Director:~$ /usr/lib/postgresql/9.5/bin/pg_controldata /var/lib/postgresql/9.5/main | grep "REDO WAL file"
Latest checkpoint's REDO WAL file:      00000001000000000000000012
```

3. Use the output from the **grep** command to clean up the Postgres database. For example:

```
postgres@Director:~$ pg_archivecleanup -d /var/lib/postgresql/9.5/main/pg_xlog 00000001000000000000000012
```

To permanently decrease the number of archives generated, you can do the following:

1. Edit the `/etc/postgresql/9.5/main/postgresql.streaming.conf` file, and make the following changes:
 - a. Change the **archive_mode** entry from **archive_mode = on** to **archive_mode = off**.
 - b. Change the **archive_command** entry from **archive_command = '/bin/true'** to **archive_command = ''**.
2. Edit the `/opt/versa/vnms/etc/conf/postgre/postgresql.streaming.conf` file, and make the following changes:
 - a. Change the **archive_mode** entry from **archive_mode = on** to **archive_mode = off**.
 - b. Change the **archive_command** entry from **archive_command = '/bin/true'** to **archive_command = ''**.

Another permanent solution is to increase the size of partitions and filesystems on the Director node. For more information, see [Expand Disk Storage for Analytics Nodes](#).

Supported Software Information

Releases 20.2 and later support all content described in this article.

Additional Information

[Expand Disk Storage for Director Nodes](#)