

# Verify Software Installation



For supported software information, click here.

This article describes how to verify the software installation and operation of the Versa headend components. You can verify the operation of the headend components after you have installed the software and performed the initial software configuration, as described in <u>Perform Initial Software Configuration</u>.

# Verify Analytics Installation and Operation

You verify the installation and operation of each Analytics node by running shell commands and accessing the node's Analytics application instance from a browser.

### Verify Analytics Processes, Software Release, and Interfaces

To verify Analytics processes, software release, and interfaces, perform the following steps on each node in the cluster:

- 1. Log in to the shell on the Analytics node. The default username is admin, and the default password is versa123.
- 2. To verify that Versa Analytics services are running, issue the **vsh status** command. The command output should be similar to the example below, which shows that the following services are running. Note that some nodes may not run the log collector exporter or Analytics driver services.
  - versa-confd—Interface between the configuration database and processes interacting with the CLI.
  - versa-lced—Log collector exporter
  - · versa-analytics-driver—Analytics driver
  - versa-analytics-app—Instance of the Analytics application running on the node.
  - versa-monit—Service and resource monitoring daemon. The monitor tool manages and monitors processes, programs, files, directories, and filesystems on Linux-based systems. The tool also performs automatic maintenance and repair.

admin@Analytics\$ vsh status
[sudo] password for admin:
versa-confd is Running
versa-lced is Running
versa-analytics-driver is Running
versa-analytics-app is Running
versa-monit is Running

If any services are stopped, issue the vsh restart command to restart all services:

admin@Analytics\$ vsh restart

#### 3. Check the software package version of the Analytics software:

admin@Analytics\$ show system package-info

Package Analytics Software

Release 20.2-R1

Build GA

Release date 20170501 Package ID 2f33623

Package name versa-analytics-20190809-071300-2f33623-20.2R1

Branch 20.2R1 Creator shep

#### 4. Check the interfaces that are configured:

```
admin@Analytics$ cat /etc/network/interfaces
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).
# The loopback network interface
auto lo
iface lo inet loopback
# The primary network interface
auto eth0
iface eth0 inet static
  address 10.192.80.3
  netmask 255.255.0.0
  gateway 10.192.0.1
  dns-nameservers 10.48.0.99
auto eth1
iface eth1 inet static
  address 192.9.25.3
  netmask 255.255.255.0
```

post-up route add -net 10.0.0.0/8 gw 192.9.25.5

## Verify the NoSQL Database

To verify the operation of the noSQL (Cassandra) database, issue the **vsh dbstatus** command from the shell on each analytics-type node in the cluster:

admin@Analytics\$ vsh dbstatus

The following shows example output on an analytics node. In the Datacenter: Analytics section, "U" in the first column indicates that the analytics node is operational.

admin@Analytics\$ vsh dbstatus [sudo] password for versa:
Datacenter: Analytics

\_\_\_\_\_\_

Status=Up/Down

// State=Normal/Leaving/Joining/Moving

-- Address Load Tokens Owns (effective) Host ID Rack

UN 192.168.116.15 62.77 MB 256 100.0% 4b0e5cd5-84e8-4d6b-8a4d-bdbb573eefc6 RAC1 UN 192.168.116.5 65.01 MB 256 100.0% 8d343be1-afdd-4400-a3fd-34d6784f9537 RAC1

Zookeeper Status

\_\_\_\_\_

ZooKeeper JMX enabled by default

Using config: /opt/versa van/apps/zookeeper-3.4.10/bin/../conf/zoo.cfg

Mode: follower

\_\_\_\_\_

Zookeeper version: 3.4.10-39d3a4f269333c922ed3db283be479f9deacaa0f, built on 03/23/2017 10:13 GMT

/0:0:0:0:0:0:0:1:36628[0](queued=0,recved=1,sent=0)

Latency min/avg/max: 0/0/0

Received: 6 Sent: 5 Connections: 1

Outstanding: 0 Zxid: 0x10000007c Mode: follower Node count: 41

#### Verify the Analytics Search Engine

To verify the operation of the search engine, issue the vsh dbstatus command from the shell of each search-type node in the cluster:

admin@Analytics\$ vsh dbstatus

The following shows example output on a search-type node. In the Datacenter: Search section, the liveNodes field shows the number of search nodes available in the Analytics cluster, and a value of 1 in the Collections field indicates that the Analytics database has been initialized.

admin@Search\$ vsh dbstatus

[sudo] password for versa:

Zookeeper Status

\_\_\_\_\_

ZooKeeper JMX enabled by default

Using config: /opt/versa van/apps/zookeeper-3.4.10/bin/../conf/zoo.cfg

Mode: leader

\_\_\_\_\_

Zookeeper version: 3.4.10-39d3a4f269333c922ed3db283be479f9deacaa0f, built on 03/23/2017 10:13 GMT

/192.168.116.25:51428[1](queued=0,recved=1208556,sent=1208591)

/0:0:0:0:0:0:0:1:41820[0](queued=0,recved=1,sent=0)

/192.168.116.26:56666[1](queued=0,recved=209227,sent=209234)

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```
Latency min/avg/max: 0/0/1408
Received: 1417793
Sent: 1417834
Connections: 3
Outstanding: 0
Zxid: 0x10000007c
Mode: leader
Node count: 41
Datacenter: Search
_____
Found 1 Solr nodes:
Solr process 2912 running on port 8983
 solr home: /var/lib/solr/data/data,
 version: 6.6.1 9aa465a89b64ff2dabe7b4d50c472de32c298683 - varunthacker - 2017-08-29 22:00:32,
 startTime: 2020-12-09T09:04:14.589Z,
 uptime: 27 days, 17 hours, 51 minutes, 25 seconds,
 memory: 72 MB (%14.7) of 490.7 MB,
  ZooKeeper: 192.168.116.5:2181,192.168.116.25:2181,192.168.116.15:2181,192.168.116.26:2181,
  liveNodes: 2,
  collections: 1
```

## **Verify Log Collectors**

For nodes that collect logs, check that local collectors are configured. Note that you can configure analytics-type, search-type, and forwarder-type nodes to collect logs.

```
admin@Forwarder$ cli
admin@Forwarder> configure
admin@Forwarder% show log-collector-exporter local
```

The following example shows that the local collector named Collector1 is configured for port 1234 on interface 192.168.1.21:

```
admin@Forwarder% show log-collector-exporter local
collectors {
  Collector1 {
    address
                  192.168.1.21;
     port
                1234;
    max-connections 100;
                 ipfix;
    protocol
    storage {
       directory
                         /var/tmp/log:
       format
                         syslog:
       file-generation-interval 10;
       max-logs-per-file
                             100;
       category flow {
```

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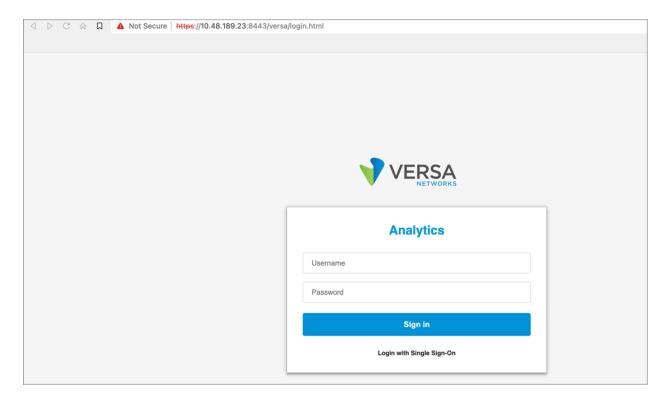
```
throttle 10000;
}
}
```

### Verify the Analytics Application

To check connectivity to the Analytics application:

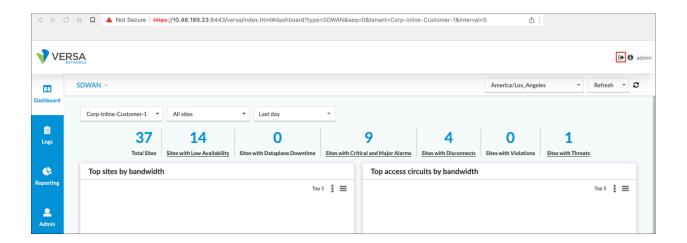
1. Enter the URL https://analytics-node-ip-address:port-number/versa/login.html in the browser URL field. By default, only secure ports 443 and 8443 are enabled on the Analytics application. For Releases 21.1.1 and later, you cannot access the Analytics application using port 8080, to avoid any security vulnerabilities.

For example, for the Analytics node at 10.48.189.23 and port 8443, enter https://10.48.189.23:8443/versa/login.html. Then, log in with the username admin and the password versa123.



If the login screen does not display, see Troubleshoot Analytics Access and Certificate Issues.

2. Select the • Logout icon to log out of the application.



# Verify Versa Director Installation

To verify that Versa Director services are running, log in to the shell on the Director node, and then issue the **vsh status** command:

admin@Director\$ vsh status

NCS[4.7.10] [Running]

POSTGRE[15.3] [Running]

NETBOX-IPAM [Running]

SPRING-BOOT [Running]

REDIS[6.2.6] [Running]

APACHE TOMCAT/9.0.75 [Running]

NODE-EXPORTER [Running]

If any services are stopped, issue the vsh restart command to restart all services:

admin@Director\$ vsh restart

# Verify Controller Installation

To verify that Controller services are running:

1. Log in to the shell on the Controller node, and then issue the **vsh status** command. To access the shell on a Controller node from the Director GUI, see Access the CLI on a VOS Device.

```
admin@Controller$ vsh status
[sudo] password for Administrator:
versa-service
                   is Running,
                                    [*] process 13723
versa-infmgr
                   is Running,
                                    [-] process 13679
versa-rfd
                 is Running,
                                  [-] process 13919
versa-vmod
                   is Running,
                                    [-] process 13917
versa-ip2user
                   is Running,
                                    [-] process 13924
versa-imgr
                  is Running,
                                   [-] process 13930
```

versa-acctmgrd is Running, [-] process 13912 versa-fltrmgr is Running, [-] process 13696 [-] process 13682 versa-vstated is Running, is Running, [-] process 14111 versa-spack versa-addrmqrd is Running, [-] process 13926 versa-rt-cli-xfm is Running, [-] process 13870 versa-rtd is Running, [-] process 13897 versa-dhcpd is Running, [-] process 13684 [-] process 13913 versa-eventd is Running, versa-vrrpd is Running, [-] process 13690 [-] process 13692 versa-dnsd is Running, is Running, [-] process 13865 versa-ppmd versa-snmp-xform is Running, [-] process 13876 is Running, [-] process 13928 versa-certd versa-ntpd is Running, [\*] process 13668 versa-dhclient6 is Running, [-] process 13880 versa-redis is Running, [-] process 14740 versa-av-redis is Running, [-] process 13500 [-] process 13900 is Running, versa-spackmgr [\*] process 13910 versa-monit is Running. is Running, versa-confd [\*] process 13466 versa-fail2ban is Running, [\*] process 14068 versa-auditd is Running, [\*] process 14136 versa-nodejs is Running, [-] process 13774

If any services are stopped, issue the vsh restart command to restart all services:

admin@Controller\$ vsh restart

#### 2. Verify the system software and hardware:

```
admin@Controller$ cli
admin@Controller> show system detail
Software Details
 Software Release 20.2.0
 Package name
                   versa-flexvnf-20190809-220223-7f58f33-20.2.0
Hardware Details
 Hypervisor Type
                   kvm
 Manufacturer
                  QEMU
 SKU Number
                   Not Specified
 Model
               Standard PC (i440FX + PIIX, 1996)
 Serial number
                  Not Specified
                  Not Specified
 CPU model
 Number of CPUs
                    2
 Number of NICs
                   4
                3.86GiB
 Memory
 Disk size
                76G
 Free NICs
                 0
 Free memory
                   1.18GiB
 Free disk
                66G
 SSD present
                  no
```

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Updated: Wed, 23 Oct 2024 07:13:35 GMT
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uCPE Platform no

#### 3. Verify the software package:

admin@Controller> show system package-info

Package Versa FlexVNF software

Release Type FRS
Release date 20190809
Package id 7f58f33

Package name versa-flexvnf-20190809-220223-7f58f33-20.2.0

Branch 20.2 Creator shep

# **Supported Software Information**

Releases 20.2 and later support all content described in this article, except:

• Release 21.1.1 adds support for port 8443 to access the Analytics application.

### **Additional Information**

Access the CLI on a VOS Device

**Headend Installation** 

**Headend Overview** 

Perform Initial Software Configuration

Troubleshoot Analytics Access and Certificate Issues