



Director GUI Overview (for Releases 21.2 and Earlier)



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

The Versa Director provisioning and management platform provides a web-based graphical user interface (GUI) that you use to orchestrate your network. The Director GUI provides a single pane of glass from which you configure and monitor all devices in your secure SD network, perform administrative functions, and access your Versa Analytics nodes. For device configuration, the Director GUI offers a wizard called Workflows that you use to configure the common and basic features across devices, and it offers a series of well-organized menus for configuring additional features. For device monitoring, the Director GUI displays real-time network and device status in graphical and tabular formats and provides the ability to drill down on screen elements to see more detailed information. The Analytics nodes provide both real-time and historical network and device status data, and they allow you to display system logging (log) information.

This article provides a tour of the Director GUI, describing all the areas on the GUI screens and the information displayed in them. You can use the information in this article to familiarize yourself with the Director GUI and to understand the nomenclature that the Versa Networks product documentation uses to describe the components of the Director GUI.

Note that this articles describe the GUI for Director nodes that are running Versa Operating System™ (VOS™) Releases 21.2 and earlier. For a description of the GUI for Director nodes that are running Releases 22.1 and later, see [Director GUI Overview](#).

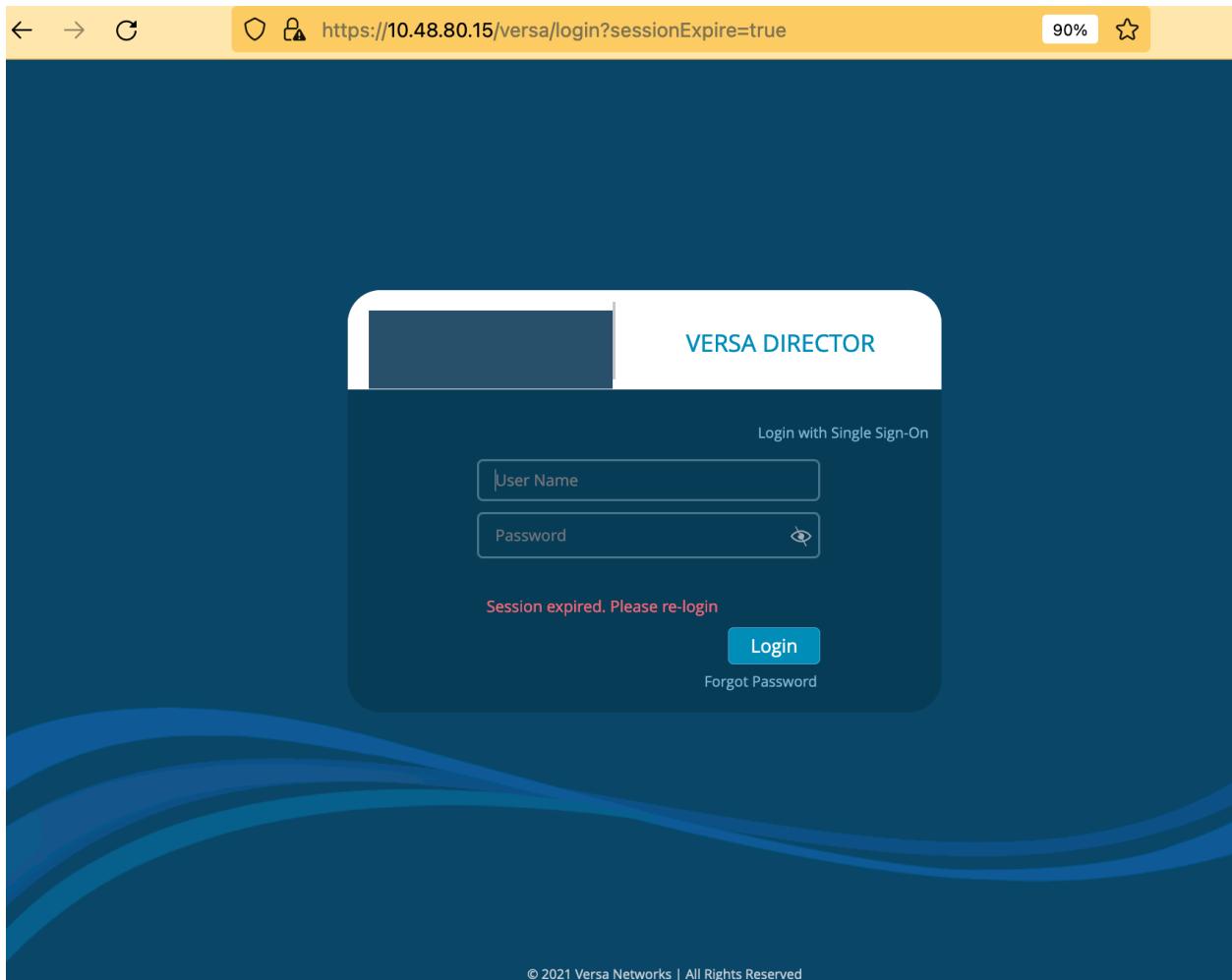
Browser Support

To use a Director node, it is recommended that you use one of the following browsers:

- Chrome, Versa 71 or later
- Firefox, Version 60 or later

Login Screen

To access the Director GUI, enter the URL of the Director node in the browser's URI field. The login screen displays. Then type your username and password, and click Login.

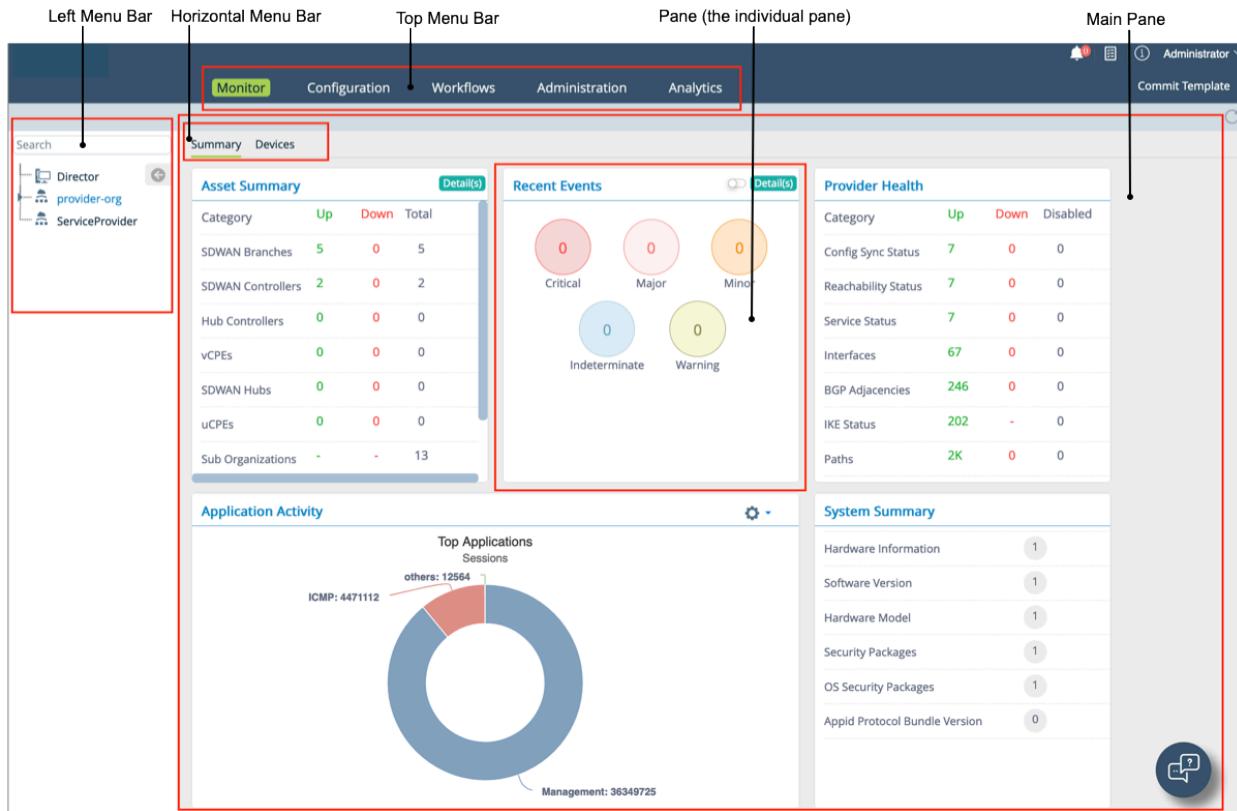


When you log in to a Director node for the first time, you are in Director view. For subsequent logins, the screen that you were last on displays when you log in.

Terminology

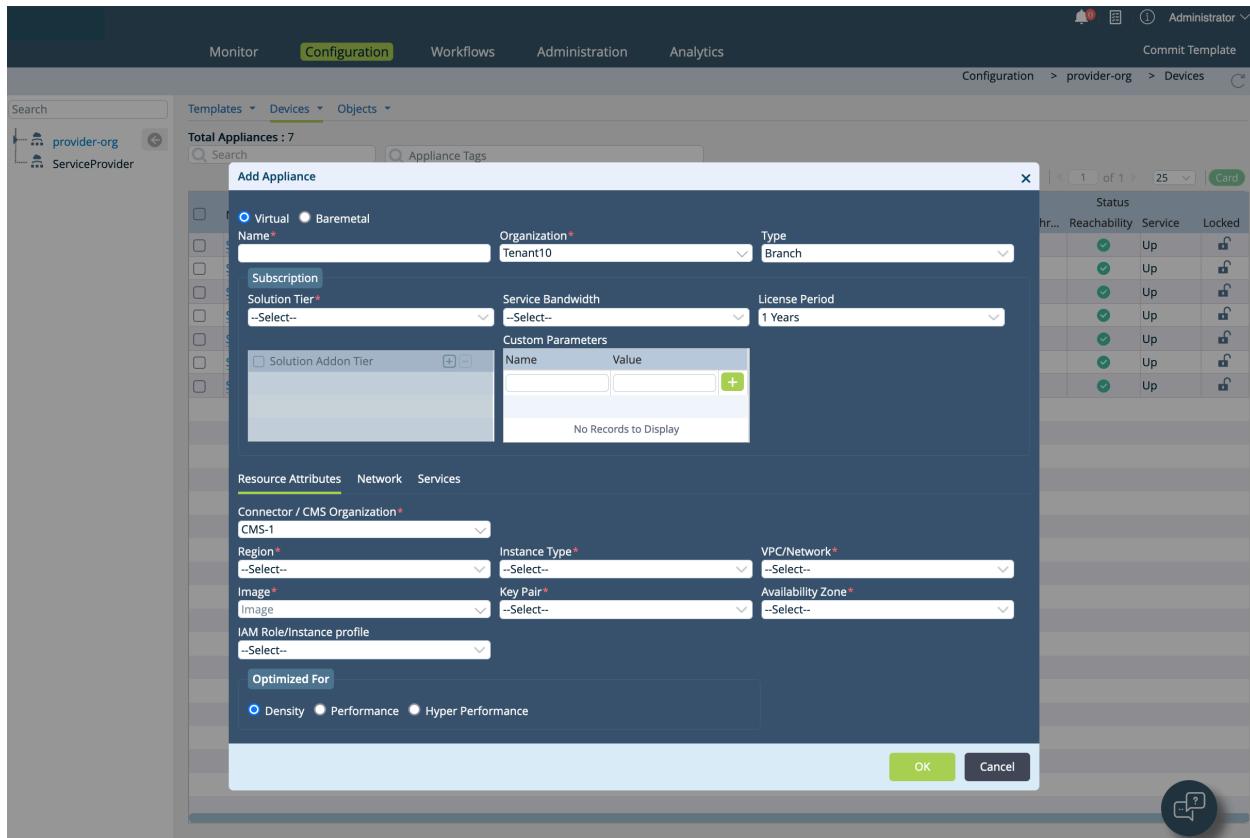
The articles on the Versa Networks documentation portal use the following terminology. The articles attempt to use these terms consistently so that you can clearly understand the explanations and procedures.

- **Screen**—The full browser window for Versa Director (and also for Versa Analytics). A Director screen always include a top menu bar, and can include other screen components such as a horizontal menu bar, a left menu bar, and a main pane. The following is an example of a screen:



- **Screenshot**—An illustration of all or some of a Director screen or of a popup window that displays when you select an item or an action on a screen.
- **Tab**—An area on the screen that allows you to open a different page on Versa Director. In the screenshot above, the tabs in the top menu bar are Monitor, Configuration, Workflows, Administration, and analytics. The tabs in the horizontal menu bar are Summary and Devices. To use a tab, you *select it*.
- **Top menu bar**—The area across the top of the screen that includes tabs and, on the right, icons and a user drop-down menu.
- **Main pane**—The area beneath the top menu bar that display information from the Director node. The main pane can include one or more horizontal menu bars, one or more smaller panes, tables and graphical objects.
- **Pane**—A smaller pane on the main pane.
- **Card**—Some monitoring screens have a Card button, which changes the view from a list or table into panes, with one pane for each item in the list. Click the List button to return to the table list.
- **Horizontal menu bar**—The area at the top of the main pane that displays tabs that you can select to open different pages. Some screens have more than one horizontal menu bar, each with its own tabs.
- **Left menu bar**—The area to the left of the main pane that displays items that you can select to open different pages.
- **Popup window**—A window that pops up, or displays, and is superimposed over the current screen. Popup windows typically allow you to add or modify (edit) a networking or service component. For screenshots of popup windows, the articles on the documentation portal generally show just the popup window, not the popup window on top of its underlying screen, so that it is easier to see the popup window. The following is an example of a popup window as

you see it on the Director screen, superimposed over the current screen. A documentation portal article would show a screenshot only of the Add Appliance popup window.



- Select and click—Verbs that indicate how to choose items on screens, pane, panels, and popup windows. For any item that is a tab and for any selectable item in the left menu bar, you *select* the tab or item to choose it. For any other items, you *click* to choose one of them. These items include names, devices, or organizations in tables; checkboxes; arrows; icons; items in drop-down menus; and graphical elements on monitoring screens. To select a tab or click an item, you click on it once.
- Drill down—Display more detailed information about elements on device monitoring screens. To drill down, you click on a graphical component, such as a section in a bar graph, or you click on an item in a table.

Director Single Pane of Glass

The Director single-pane-of-glass design provides a powerful tool for managing your entire network, allowing you to configure and monitor individual devices and interfaces, groups of devices for individual customers (called tenants) and provider organizations, and the entirety of your network enterprise, including SD-WAN and SASE portions of the network from a single interface. These broad views of the network and its components are provided by a streamlined graphical user interface (GUI) that begins with five high-level home screens, one of which is a link to the Analytics home screen. You access each home page by selecting a tab at the top of the screen. Each tab arranges device and network-related information in a logical and straightforward manner. Because of the large number of network and device components and the amount of information that the Director node is managing, each of the home screens has many screens under it

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to allow you to access all components and information.

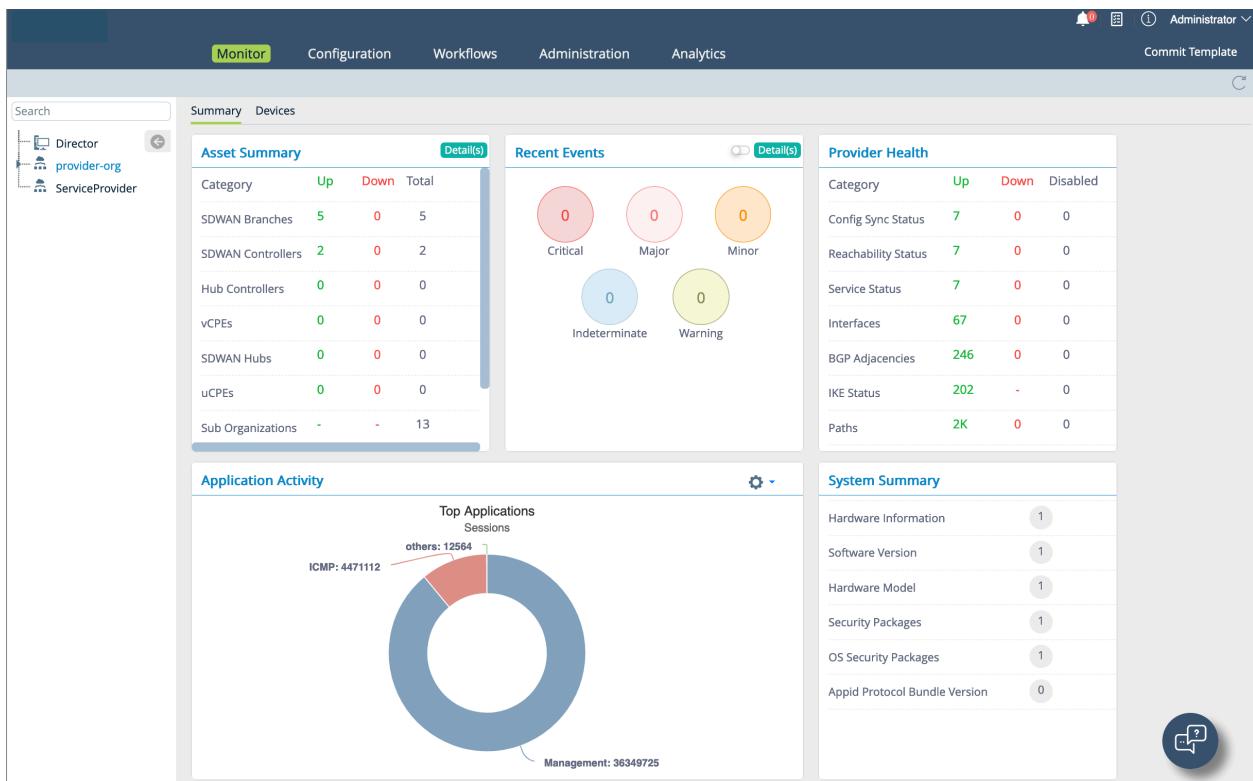
To perform operations and view information, you navigate from the Director home screens in a number of ways—by selecting tabs, clicking buttons and fields, and clicking items in tables or portions of graphical elements. Selecting or clicking displays additional or more detailed information (sometimes referred to as drilling down), opens popup windows, performs a test or other operation, or changes the presentation of the information that is displayed.

In an effort to provide a usable and somewhat concise overview of the Director GUI, this article describes many, but not all, of the Director screens, and many, but not all, of the selectable and clickable items on each screen. The goal here is to allow you to familiarize yourself with the design of the GUI and the available options, especially if you do not have access to a Director node. When you do have access to a Director node, you are strongly encouraged to explore all the screens and the options on them. For monitor and other screens that report information, viewing the information and changing views (for example, changing from a table to a graph, or from one style of graph to another style) has no impact on the operation of the network or its devices. With a few exceptions, the options on configuration-related screens are viewable, and they have delete or cancel options, allowing you to explore screens and popup window, and configure test items, and then undo your trial work.

Areas on the Director Screen

All screens that you can access in the Director GUI have common areas, as illustrated in the screenshot below:

- Top menu bar contains tabs that you select to view the various Director home pages. The icons and drop-down menu in the upper right of the top menu bar provide access for performing administrative tasks related to the Director node itself.
- Left menu bar allows you to navigate to devices and task menus.
- Horizontal menu bar provides additional navigational links or tabs. Many screens have a horizontal menu bar that is below the top menu bar. Some screens have multiple horizontal menu bar. In both cases, they are called horizontal menu bars. You can use the text description of the menu bar to determine which one is being discussed.
- Main pane displays the information that results from your navigational choices.
- Versa Verbo platform is an intelligent chatbot assistant that you use to ask questions and receive answers about the Director GUI. Versa Verbo derives answers to your questions using natural language processing (NLP), artificial intelligence (AI), and machine-learning (ML).



To select any tabs in the top menu bar or the horizontal menu bar, or to select an item in the left menu bar, you click the tab or item. For items in the left menu bar that are containers for other items, click the ► to display the subordinate items.

Tabs in the Top Menu Bar

The Director GUI generally always has the same five tabs in the top menu bar:

- Monitor—From the Monitor home page, you monitor the network and its devices in real time.
- Configuration—From the Configuration home page, you configure VOS devices and the Director node itself.
- Workflows—The Workflows home page provide wizards for configuring VOS device properties that are shared across multiple devices.
- Administration—From the Administration home page, you configure and modify systemwide and networkwide properties.
- Analytics—Redirects you to an Analytics node, where you can view real-time and historical device information and device system logging data (also called logs). From this tab, you can also monitor and configure Analytics clusters.

To select a tab, you single-click it. Selecting the Monitor, Configuration, Workflows, or Administration tab takes you to the home screen specific for that function. Selecting the Analytics tab takes you to the home screen on one of the Analytics node in your network. The tabs on these home screens may differ slightly from those listed above. The home screens and their subordinate screens are discussed below.

Other Items in the Top Menu Bar

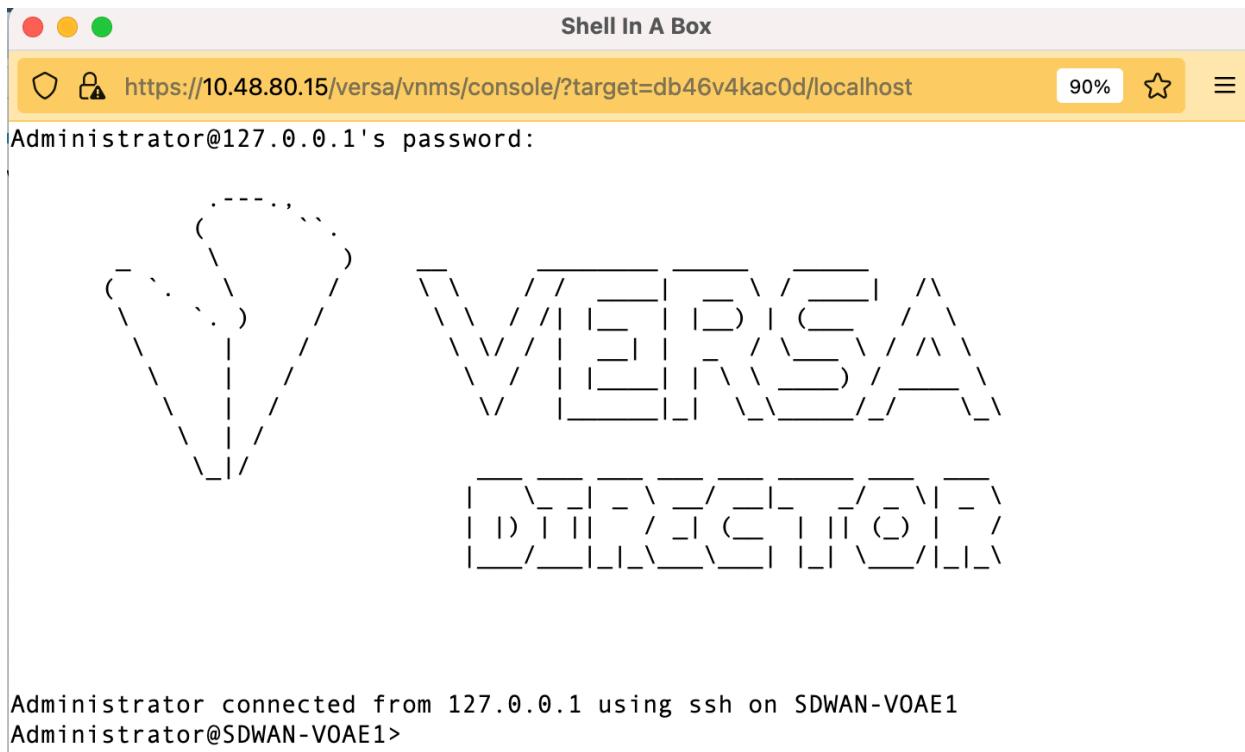
The icons and drop-down menu in the upper right of the top menu bar provide access for performing general administrative tasks on the Director node. These icons generally remain constant regardless of the tab that you select in the top menu bar.

The following items are in the top menu bar:

- Notifications bell  icon—Click to display all notifications that have been sent to the Director node. You can also clear all the notifications.
- Tasks  icon—Click to display all tasks that are currently running on the Director node and on the VOS nodes for which the Director node is responsible.
- Information (circle-i) icon—Click to display information about the VOS software version running on the Director node.
- Username—Name of the user who is logged in to the Director node. In the screenshot above, the username is Administrator.

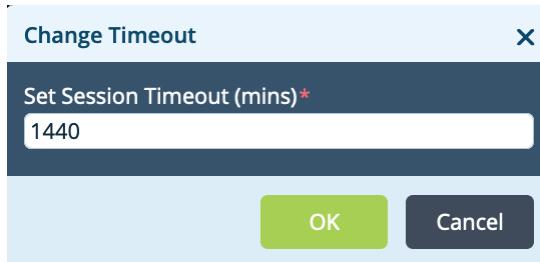
Click the username to display a drop-down menu that contains the following items:

- Director CLI—Click to start the CLI on the Director node. In the Shell In A Box popup window, enter the password to access the CLI. To log out of the CLI, enter the **exit** CLI command or close the Shell In A Box popup window.

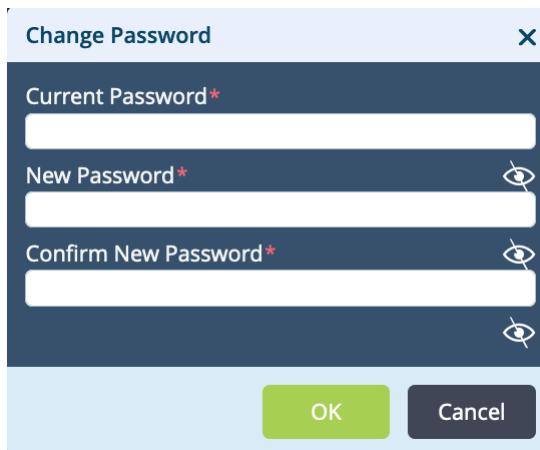


- Change Session Timeout—Click to change how long a Director GUI session is idle before the user is logged out. By

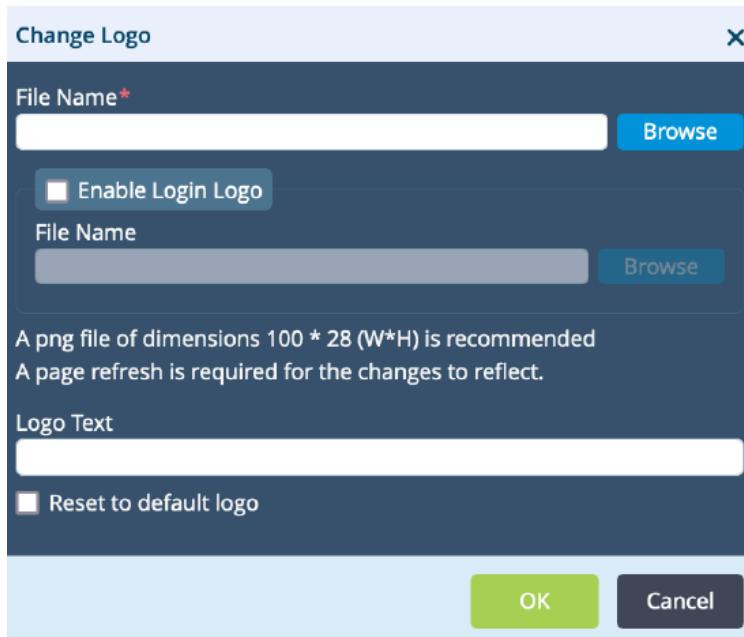
default, the Director GUI timeout is set to 15 minutes.



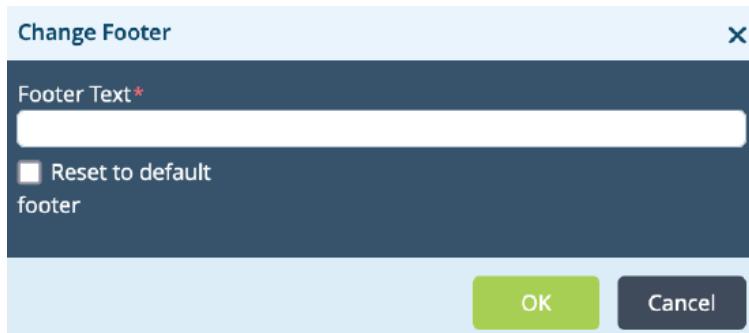
- Change Password—Click to change the user's password. Type the existing password, and then type and confirm the new password.



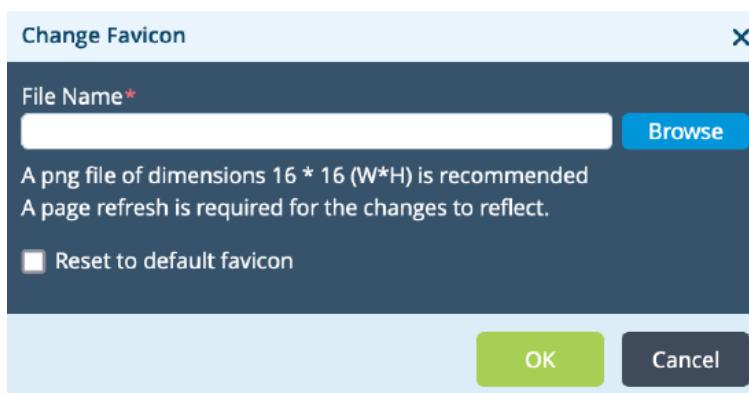
- Change Logo—Click to change the logo displayed on the left side of the top menu bar.



- Change Footer—Click to change the footer displayed along the bottom of the Director GUI.



- Change Favicon—Click to change the favicon (logo bug) to display next to the log in the top menu bar.



- Toggle Chatbot—Click to disable the Chatbot if it is visible or to enable it if it is not visible.
- Show RBAC Privileges—Click to display information about the services enabled on the VOS devices that are managed by the Director node.
- REST API Documentation—Click to display the REST API documentation for the version of the VOS software that is running on the Director node.
- Language—Click to select the language in which to display the Director. You can choose English or Chinese.
- Logout—Click to log out of the Director node.

Sections in the Left Menu Bar

The left menu bar in the Director GUI lists the options available for the tab that you select in the top menu bar. To select an item in the left menu bar, single-click it. For items in the left menu bar that are organized hierarchically, click the > or ► to display the subordinate items.

The top of the left menu bar may have a search box so that you can search the items in the left menu bar.

Items in the Horizontal Menu Bars

The items that display in the horizontal menu bars vary, depending on the tab that you select. The sections below that describe each of the tabs describe some of the horizontal menu bars.

Director GUI Views

The Director GUI has four distinct presentation formats, which are referred to as *views*. In each view, you can monitor different items and perform different tasks.

- Director view, which displays when you log in for the first time, is the centralized connection point to a series of dashboards from which you can display all activities and control all operations on the devices that are managed by the Director node.
- Appliance view displays when you select a VOS device (which is sometimes referred to as an appliance) so that you can view information about or perform a task related to that device.
- Template view displays when you select the Workflows tab in the top menu bar. Template view provides configuration templates that you can use to deploy configurations across an organization or across devices in an organization. For more information, see [Overview of Configuration Templates](#).
- Analytics view displays when you select the Analytics tab in the top menu bar, a selection that connects you to a node in your Analytics cluster. The Director and Analytics nodes almost always run on different devices.

Director View

Director view is the centralized connection point to a series of dashboards from which you can display all activities and control all operations on the devices that are managed by the Director node.

When you log in to a Director node for the first time, you are in Director view. For subsequent logins, the screen that you were last on displays when you log in.

In Director view, the top menu bar shows the Monitor, Configuration, Workflows, Administration, and Analytics tabs.

When you select the Monitor tab in Director view, a monitor home screen similar to the following displays:

Asset Summary

Category	Up	Down	Total
SDWAN Branches	5	0	5
SDWAN Controllers	2	0	2
Hub Controllers	0	0	0
vCPEs	0	0	0
SDWAN Hubs	0	0	0
uCPEs	0	0	0
Sub Organizations	-	-	13

Recent Events

Type	Count
Critical	0
Major	0
Minor	0
Indeterminate	0
Warning	0

Provider Health

Category	Up	Down	Disabled
Config Sync Status	7	0	0
Reachability Status	7	0	0
Service Status	7	0	0
Interfaces	67	0	0
BGP Adjacencies	246	0	0
IKE Status	202	-	0
Paths	2K	0	0

Application Activity

Top Applications Sessions

System Summary

Hardware Information	1
Software Version	1
Hardware Model	1
Security Packages	1
OS Security Packages	1
Appid Protocol Bundle Version	0

When you select the Configuration tab in Director view, a configuration home screen similar to the following displays:

Total Appliances : 7

Name	Mgmt. Address	Tags	Type	Service Start Date	Software Version	Organizations	Status
SDWAN-Branch1	10.20.64.106		Branch	Thu, Oct 07 ...	21.2.2-GA	Tenant1,Tenant2,T...	Config Sync: ✓, Reachability: ✓, Service: Up, Locked: 🔒
SDWAN-Branch2	10.20.64.104		Branch	Thu, Oct 07 ...	21.2.2-GA	Tenant1,Tenant2,T...	Config Sync: ✓, Reachability: ✓, Service: Up, Locked: 🔒
SDWAN-Branch4	10.20.64.108		Branch	Thu, Oct 07 2...	21.2.2-GA	Tenant1,Tenant2,T...	Config Sync: ✓, Reachability: ✓, Service: Up, Locked: 🔒
SDWAN-Branch5	10.20.64.101		Branch	Fri, Oct 08 20...	21.2.2-GA	Tenant1,Tenant2,T...	Config Sync: ✓, Reachability: ✓, Service: Up, Locked: 🔒
SDWAN-Branch6	10.20.64.103		Branch	Fri, Oct 08 20...	21.2.2-GA	Tenant12,Tenant1...	Config Sync: ✓, Reachability: ✓, Service: Up, Locked: 🔒
SDWAN-Controller1	10.48.80.11		Controller	Thu, Oct 07 2...	21.2.2-GA	Tenant1,Tenant2,T...	Config Sync: ✓, Reachability: ✓, Service: Up, Locked: 🔒
SDWAN-Controller2	10.48.80.12		Controller	Thu, Oct 07 2...	21.2.2-GA	Tenant1,Tenant2,T...	Config Sync: ✓, Reachability: ✓, Service: Up, Locked: 🔒

When you select the Workflows tab in Director view, a workflows home screen similar to the following displays:

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/02_Director_GUI_Overview_...

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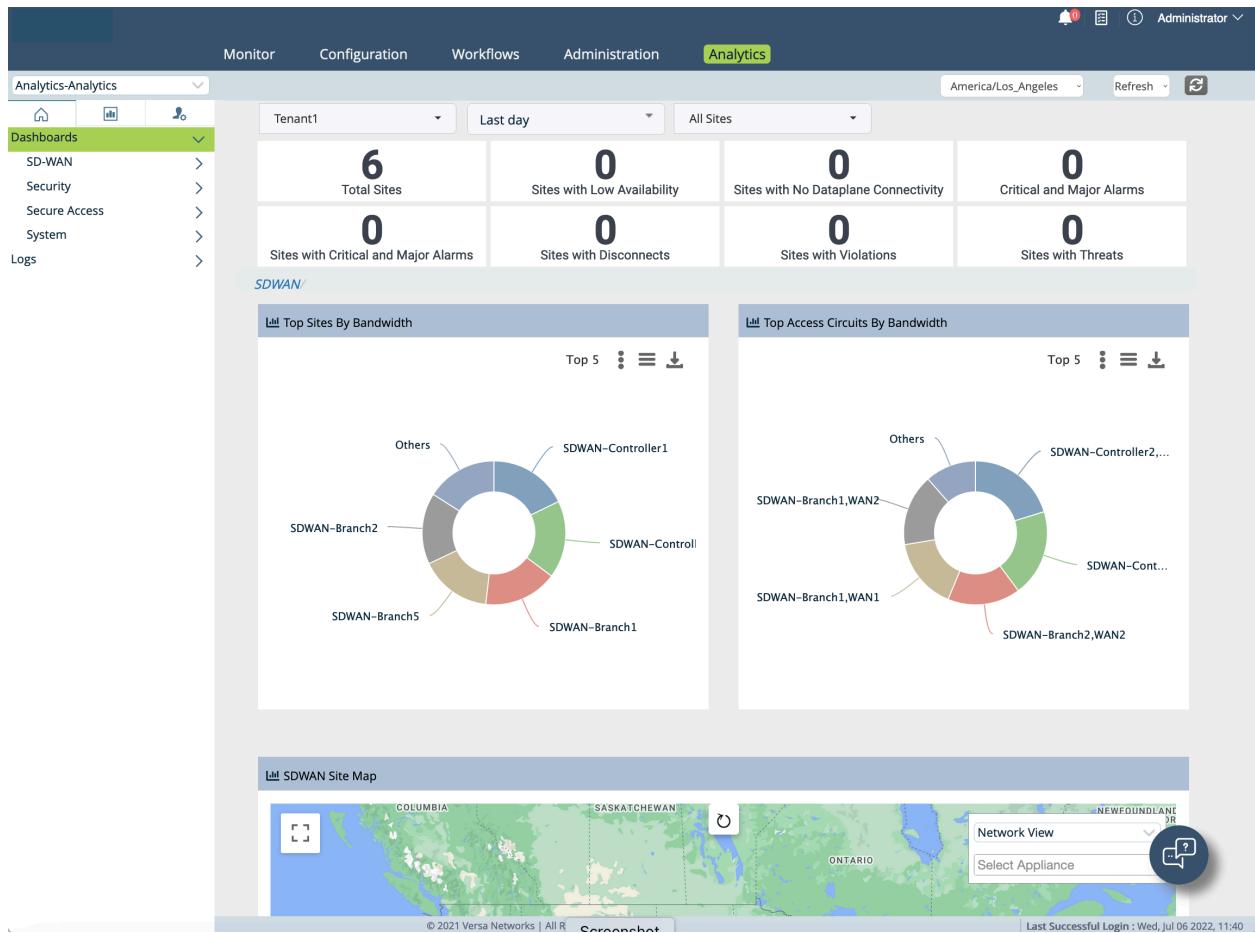
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The screenshot shows the Director view with the 'Workflows' tab selected. On the left, a sidebar menu includes 'Infrastructure' with 'Controllers' (selected), 'Organizations', 'Template', and 'Devices'. The main area displays a table with columns: Name, Global Controller ID, Status, Last Modified Time, and Last Modified By. Two entries are listed: SDWAN-Controller1 (ID 1, Deployed, Tue, Jul 23 2019, 14:12, Administrator) and SDWAN-Controller2 (ID 2, Deployed, Tue, Jul 23 2019, 14:13, Administrator).

When you select the Administration tab in Director view, an administration home screen similar to the following displays:

The screenshot shows the Director view with the 'Administration' tab selected. On the left, a sidebar menu includes 'Organizations' (selected), 'Appliances' (selected), 'Connectors', 'System', 'Scheduled Tasks', 'Notification Config...', 'Entitlement Manager', 'Director User Mana...', 'Inventory', 'SDWAN', and 'Support'. The main area displays a table titled 'Total Appliances : 7' with columns: Name, Mgmt. Address, Tags, Type, Service Start..., Software Version, Organizations, Sna..., and Status. The table lists seven appliances: SDWAN-Branch1 through SDWAN-Branch6, and SDWAN-Controller1 and SDWAN-Controller2. Each entry includes a status column with icons for Config Sync, Reachability, Service, and Locked.

When you select the Analytics tab in Director view, an Analytics home screen similar to the following displays:



Appliance View

Appliance view displays when you select the Monitor, Configuration, or Administration tab and then select a VOS device (which is sometimes referred to as an appliance) so that you can view information about or perform tasks related to that device.

In Appliance view, the top menu bar shows the Monitor, Analytics, Configuration, and Administration tabs, and the horizontal menu bar shows a Home button and a drop-down box that shows the device's name and that allows you to select other devices.

To return to Director mode, click the Home button.

When you select the Monitor tab in Director view and then select a device, the view changes to Appliance view and a home screen displays for the device that is similar to the screenshot below. Notice in this screenshot that in the horizontal menu bar, the name of the device, SDWAN-Branch1, is next to the Home button. This horizontal menu bar also has a Build button, to allow you to perform a build operation. This device home screen has a second horizontal menu bar, which shows the tabs Summary, Services, System, and Tools and which has buttons for operations you can perform here, including Shell, Configuration Status, Upgrade and Subscription. Select a tab to display additional monitoring-related information about the device. The left menu bar lists the organizations and tenants associated with

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the device you selected. Select an organization or tenant to display monitoring-related information specific to it.

When you select the Configuration tab in Director view and then select a device, the view changes to Appliance view and a home screen displays for the device that is similar to the screenshot below. Again, the horizontal menu bar shows the Home button and the name of the device, SDWAN-Branch1. This horizontal menu bar also has a Build button, to allow you to perform a build operation. The left menu bar has tabs for four configuration sections:

- Networking
- Services
- Objects & Connectors
- Others

Depending on the configuration option you select, the device home screen may have a second horizontal bar, with tabs that allow you to fine-tune configuration parameters. In the screenshot below, Networking > Interfaces is selected in the left menu bar, and the second horizontal menu bar has tabs for each of the interface types that you can configure.

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Name	Description	Interfaces	IP Address/Prefix
vni-0/0		vni-0/0.0	192.168.11.101/24
vni-0/1		vni-0/1.0	192.168.12.101/24
vni-0/2		vni-0/2.0	192.168.13.101/24 172.18.11.1/24 172.18.12.1/24 172.18.13.1/24
vni-0/3		vni-0/3.101 vni-0/3.102 vni-0/3.103 View More...	172.18.14.1/24 172.18.15.1/24 172.18.16.1/24 172.18.17.1/24 172.18.18.1/24 172.18.19.1/24 172.18.20.1/24
vni-0/4		vni-0/4.0	None

Template View

Template view displays when you select the Workflows tab in the top menu bar. Template view provides configuration templates that you can use to deploy configurations across an organization or across devices in an organization. For more information, see [Configuration Using Templates](#), below, and [Overview of Configuration Templates](#).

Analytics View

Analytics view refers to the home page of the Analytics software running on the Analytics node. For more information about the Analytics home page, see the articles in [Versa Analytics Configuration Concepts](#).

Select a Director View

Available through Versa Networks cloud-hosted SASE services only.

You can directly change the Versa Director view to Director view, Template view, or Appliance view. A message displays in the horizontal menu bar to indicate which view you are currently in. You use the buttons in the bar to the right of the log to change views.

To change to Appliance view, click the Appliance View button. The following popup window displays. First, select an organization to display the available appliances in the organization. Then, click the name of an appliance to go to Appliance view.

<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	Controller1	controller
<input type="checkbox"/>	Sase-CSG7xx-Spoke	branch

To change to Template view, click the Template View button. The following popup window displays. First, select an organization to display the available templates for the organization. Then, click the name of a template to go to Template view.

<input type="checkbox"/>	Name	Category	Template Type
<input type="checkbox"/>	Enterprise-Default-Application	applications	partial
<input type="checkbox"/>	Enterprise-Post-Staging	-	composite

Monitor Tab in Director View

In Director view, the screens on the Monitor tab allow you to monitor the network and its devices in real time. You can monitor the Director node itself and all the provider organizations, VOS branch devices, and Controller nodes for which the Director node is responsible. Note that you can also monitor the network and devices by selecting the Analytics tab, which takes you from the Director node to the Analytics node, as discussed below. On an Analytics node, you can view both real-time and historical device information.

In the left menu bar, you click the device or devices to monitor.

Monitor a Director Node

Select Director in the left menu bar to display monitoring information about the Director node itself. For example:

The screenshot shows the Director Monitor tab interface. On the left, a navigation tree highlights 'Director'. The main area contains several monitoring panes:

- System Detail:** CPU Count: 4, CPU Load: 4.69, Total Memory: 7.86GB, Free Memory: 1.66GB, Disk: 48GB, Disk Partition table.
- Alarms:** Director: Critical 0, Major 0, Minor 0, Indeterminate 2, Warning 0. Analytics: Critical 0, Major 0, Minor 0, Indeterminate 0, Warning 0. Buttons: Details(s) for Director and Analytics.
- Package Information:** Package ID: ee33bbd (trusty), Release: 21.2.2, Release Date: 20210910, Package: Versa Director, Security Package: 1879.
- High Availability:** Master: true, Auto Switchover Timeout: 120, Failover Timeout: 300, Standby Start Timeout: 100, Auto Switchover Enabled: false, Enabled: false. Node Name: Southbound Interface, Local (static): 192.168.75.2.
- Uptime:** Application Up Time: 278 Days, 21 Hours, 47 Minutes, 24 Seconds, System Up Time: 471 Days, 17 Hours, 21 Minutes, 55.
- License:** Licensed Appliances: 12, Active Appliances: 5.

Most of the panes on the Monitor screen display static information about the Director node. The exception is the Alarms pane, which reports active alarms on the Director node and on the Analytics node to which it is connected. Alarms are organized by severity, and an active alarm is indicated by a number other than 0 in the circle. To display more information about the active alarms, click the alarm's circle or click the Details button. A table describing the alarms displays. For example:

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The screenshot shows the Versa Director Monitor interface. At the top, there's a horizontal menu bar with tabs: Monitor (which is selected and highlighted in green), Configuration, Workflows, Administration, and Analytics. To the right of the menu are icons for notifications, user status (Administrator), and a 'Commit Template' button. Below the menu is a search bar labeled 'Search'. On the left, a sidebar displays a tree structure with nodes: Director, provider-org (selected and highlighted with a red box), and ServiceProvider. The main content area is titled 'Alarms' and contains a table with columns: Device Name, Organization Name, Alarm Type, Handling State, Severity, Status Change Time, and Alarm Text. Two rows are visible: one for 'VersaDirector' with severity 'user-login-failed' and another for 'VersaDirector' with severity 'backup-operation-successful'. A red box highlights the green 'Back' button in the top right corner of the table header.

Click the green Back button in the horizontal menu bar to return to the Director monitoring screen.

Monitor an Organization

When you select an organization in the left menu bar, you display real-time status information for the provider and its tenants. In the horizontal menu bar, you select the display option, either Summary or Devices.

Summary View

On the Monitor home screen, select the Summary tab in the horizontal menu bar to display a summary of real-time information about the organization. The information displays in a number of panes and is presented in both table and graphical format. For example:

The screenshot shows the Versa Director Monitor interface in 'Summary' mode. The top navigation bar has tabs: Monitor (selected), Configuration, Workflows, Administration, and Analytics. A red box highlights the 'Summary' tab. Below the tabs is a search bar. The left sidebar shows a tree structure with 'provider-org' selected (highlighted with a red box) and 'ServiceProvider'. The main area is divided into several panes: 'Asset Summary' (table of device counts), 'Recent Events' (a donut chart with 0 Critical, 0 Major, 0 Minor, 0 Indeterminate, and 0 Warning events), 'Provider Health' (table of provider status), 'Application Activity' (a pie chart showing session distribution by application type, with 'ICMP: 4816249' and 'others: 13231'), and 'System Summary' (table of system information like Hardware Model, Software Version, and Paths).

The Monitor screen shows the following panes. Click the Refresh icon in the horizontal menu bar to update the information displayed. For some of the panes, you can drill down to display more information or change the presentation of the display:

- Asset Summary—Displays information about the device in the organization. For details about each tenant's assets, click Details.

The screenshot shows a table titled "Tenant Statistics" with 12 columns: Name, CPEs, UCPEs, Controllers, Hub Controllers, Branches, Hubs, SubTenants, Interface, Config Sync, Reachability, BGP Adjace..., Paths, and IKE Status. The table contains 12 rows, each representing a tenant (Tenant1 to Tenant12). Each row has a green circle icon with a number (e.g., 0, 2, 4) in it, followed by a red circle icon with a number (e.g., 0, 0, 0). The last three columns (BGP Adjace..., Paths, IKE Status) have green circles with numbers (e.g., 24, 150, 18) and red circles with numbers (e.g., 0, 0, 0).

Name	CPEs	UCPEs	Controllers	Hub Controllers	Branches	Hubs	SubTenants	Interface	Config Sync	Reachability	BGP Adjace...	Paths	IKE Status
Tenant1	0	0	2	0	4	0	0	22 0	6 0	6 0	24 0	150 0	18 0
Tenant10	0	0	2	0	4	0	0	22 0	6 0	6 0	21 0	150 0	18 0
Tenant101	0	0	0	0	0	0	0	0 0	0 0	0 0	0 0	0 0	0 0
Tenant11	0	0	2	0	2	0	0	14 0	4 0	4 0	0 0	60 0	0 0
Tenant12	0	0	2	0	2	0	0	14 0	4 0	4 0	0 0	60 0	0 0
Tenant2	0	0	2	0	4	0	0	22 0	6 0	6 0	24 0	150 0	18 0
Tenant3	0	0	2	0	4	0	0	22 0	6 0	6 0	21 0	150 0	18 0
Tenant4	0	0	2	0	4	0	0	22 0	6 0	6 0	21 0	150 0	18 0
Tenant5	0	0	2	0	4	0	0	22 0	6 0	6 0	21 0	150 0	18 0
Tenant6	0	0	2	0	4	0	0	22 0	6 0	6 0	21 0	150 0	18 0
Tenant7	0	0	2	0	4	0	0	22 0	6 0	6 0	21 0	150 0	18 0
Tenant8	0	0	2	0	4	0	0	22 0	6 0	6 0	21 0	150 0	18 0
Tenant9	0	0	2	0	4	0	0	22 0	6 0	6 0	21 0	150 0	18 0

In the horizontal menu bar, you can perform the following actions:

- Return to the summary pane—Click the green Back button in the horizontal menu bar. Note that you cannot use the browser's Back arrow or menu option to return to the summary pane.
- Select the columns to display in the table—Click the Column Filter icon, and then click the columns to display or hide.

The screenshot shows the same table as above, but with a "Column Filter" overlay on the right side. The overlay has a "Name" dropdown set to "All" and checkboxes for "CPEs", "UCPEs", "Controllers", "Hub Controllers", "Branches", "Hubs", and "SubTenants". A "Reset" button is at the bottom right of the overlay.

Name	CPEs	UCPEs	Controllers	Hub Controllers	Branches	Hubs	SubTenants	Interface	Config Sync	Reachability	BGP
Tenant1	0	0	2	0	4	0	0	22 0	6 0	6 0	24
Tenant10	0	0	2	0	4	0	0	22 0	6 0	6 0	21
Tenant101	0	0	0	0	0	0	0	0 0	0 0	0 0	0
Tenant11	0	0	2	0	2	0	0	14 0	4 0	4 0	0
Tenant12	0	0	2	0	2	0	0	14 0	4 0	4 0	0
Tenant2	0	0	2	0	4	0	0	22 0	6 0	6 0	24 0

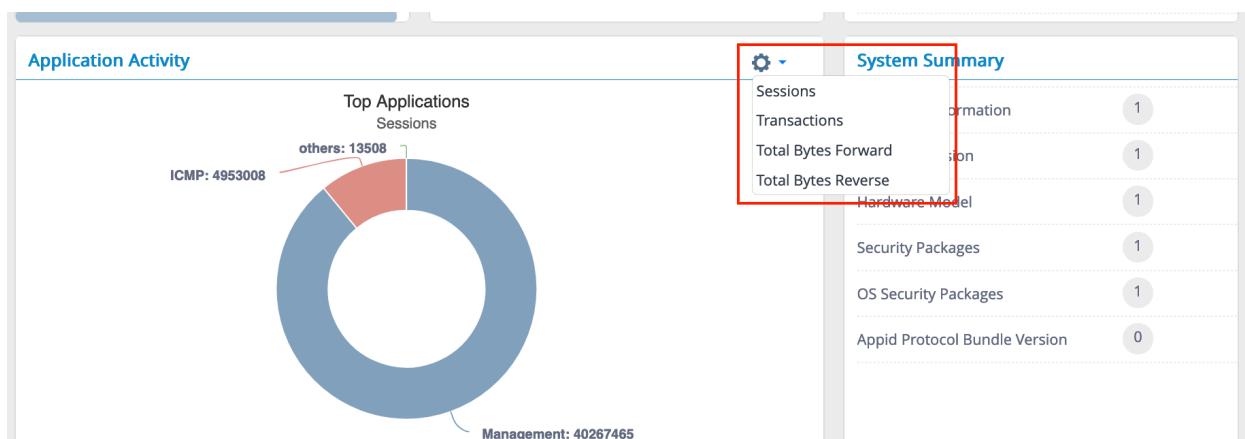
- Select specific records to display—Click the Filter Records icon, and then select the items and value to display.

Name	Interface	BGP Adjacencies	Paths	IKE Status
Tenant1	(0) (0) (2) (0)	(2) (0) (0)	(14) (0) (4) (0) (4) (0)	(24) (0) (150) (0) (18) (0)
Tenant10	(0) (0) (2) (0)	(2) (0) (0)	(14) (0) (4) (0) (4) (0)	(21) (0) (150) (0) (18) (0)
Tenant101	(0) (0) (2) (0)	(2) (0) (0)	(14) (0) (4) (0) (4) (0)	(0) (0) (0) (0) (0) (0)
Tenant11	(0) (0) (2) (0)	(2) (0) (0)	(14) (0) (4) (0) (4) (0)	(0) (0) (60) (0) (0) (0)
Tenant12	(0) (0) (2) (0)	(2) (0) (0)	(22) (0) (6) (0) (6) (0)	(0) (0) (60) (0) (0) (0)
Tenant2	(0) (0) (2) (0)	(4) (0) (0) (0)	(24) (0) (150) (0) (18) (0)	(24) (0) (150) (0) (18) (0)

- Change the number of records displayed per screen.
- Recent Events—Displays a visual summary of recent alarms, arranged by alarm severity. Click Details to display a table with more information about the recent alarms. In the horizontal menu bar, you can perform the same actions as for Asset Summary Details. In addition, you can refresh the display because the alarm information changes, while the asset summary details are static.

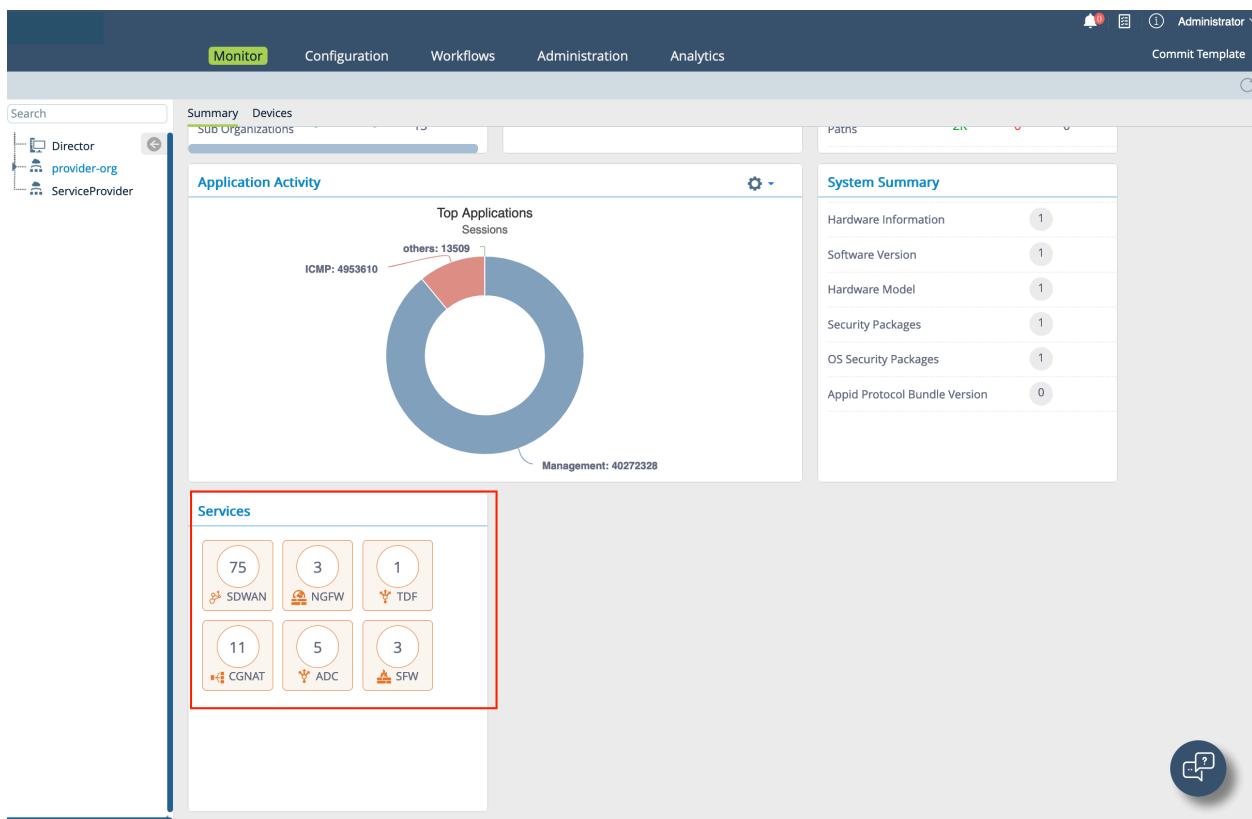
Device Name	Organization Name	Alarm Type	Handling State	Severity	Status Change Time	Alarm Text
NO ALARM ADDED						

- Provider Health—Displays information about the health of the provider's network infrastructure components. No detailed information is available.
- Application Activity—Displays information about the applications running on all devices in the organization. Click the Tool icon to change the presentations. Presentations view are Sessions (shown in the following screenshot), Transactions, Total Bytes Forward [Direction], Total Bytes Reverse [Direction]



- System Summary—Displays a summary of the provider's hardware and software components. No detailed information is available.

- Services—Displays the number of instances of SD-WAN services running on the provider's devices. No detailed information is available.



Devices View

On the Monitor home screen, select the Devices tab to display a table in the main pane that lists all devices. For example:

The screenshot shows the Versa Director Monitor interface with the Devices tab selected. The main pane displays a table of devices. The columns are: Name, Mgmt. Address, Tags, Type, Service Star..., Software Ver..., Organizations, Status, Config Sync..., Reachab..., Service, and Locked. The table lists seven devices: SDWAN-Branch1, SDWAN-Branch2, SDWAN-Branch4, SDWAN-Branch5, SDWAN-Branch6, SDWAN-Controller1, and SDWAN-Controller2. All devices are listed as Branches, running version 21.2.2-GA, and are Up with no locks applied. The table includes standard data grid controls like sorting and filtering.

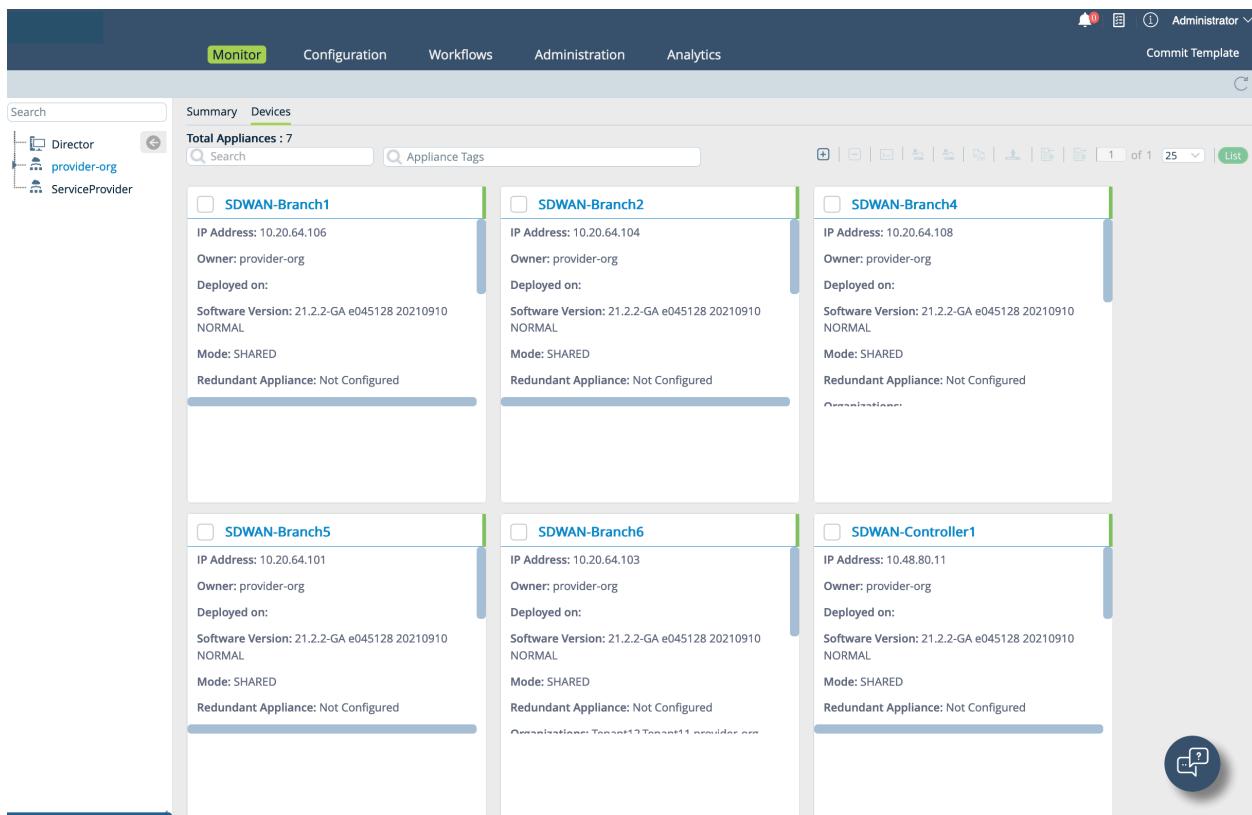
https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/02_Director_GUI_Overview_...

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In the horizontal menu bar, you can perform the following actions:

- Add a device—Click the  Add icon to add a VOS device.
- Select the columns to display in the table—Click the  Column Filter icon, and then click the columns to display or hide.
- Select specific records to display—Click the  Filter Records icon, and then select the items and value to display.
- Change the number of records displayed per screen.
- Change the display view—Click the  Card button to format the device information into panes. Click the  List button to return to the table list. In the Card view, if you click the box next to a device name, additional actions become available on the horizontal menu bar. Hover over the action's icon to display information about it.



The screenshot shows the Versa Director GUI in Card view. The top navigation bar includes Monitor, Configuration, Workflows, Administration, and Analytics. Below the navigation is a search bar and a sidebar with categories: Director, provider-org, and ServiceProvider. The main content area displays six devices in a grid:

Device	IP Address	Owner	Deployed on	Software Version	Mode	Redundant Appliance
SDWAN-Branch1	10.20.64.106	provider-org	Deployed on:	21.2.2-GA e045128 20210910 NORMAL	SHARED	Not Configured
SDWAN-Branch2	10.20.64.104	provider-org	Deployed on:	21.2.2-GA e045128 20210910 NORMAL	SHARED	Not Configured
SDWAN-Branch4	10.20.64.108	provider-org	Deployed on:	21.2.2-GA e045128 20210910 NORMAL	SHARED	Not Configured
SDWAN-Branch5	10.20.64.101	provider-org	Deployed on:	21.2.2-GA e045128 20210910 NORMAL	SHARED	Not Configured
SDWAN-Branch6	10.20.64.103	provider-org	Deployed on:	21.2.2-GA e045128 20210910 NORMAL	SHARED	Not Configured
SDWAN-Controller1	10.48.80.11	provider-org	Deployed on:	21.2.2-GA e045128 20210910 NORMAL	SHARED	Not Configured

Hover over the device's name in the Name column to display information about the device, including name, location (address), site identifier (number), model number, running services, date created, and template status.

To display detailed status information about a device, click its name in the Name column. The view changes to

Appliance view, as indicated by the  Home button in the upper horizontal menu bar. Click the  Home button to return to the previous screen, which is in Director view.

Next to the **Home** button in the upper horizontal menu bar is a selection box, which shows the device that you selected on the Monitor > Devices screen. In this box, you can select other branch or Controller nodes in the organization.

The right side of the upper horizontal menu bar has four operation buttons:

- Shell—Click to open a shell to the device so that you can perform operations from the CLI.
- Configuration Status—Click to perform configuration operations on the device:
 - Sync To
 - Sync From
 - Compare
- Upgrade—Click to upgrade the software on the device.
- Subscription—Click to view information about the device's Versa Networks software subscription.

Initially, the Summary tab is selected in the lower horizontal menu bar.

For the Summary tab, the following information displays. Scroll down to see all the panes of information.

CPE Interfaces

Interface	Network Name	Service Provider	Status	Live Data	Bandwidth (Mbps)
vni-0/0.0	WAN1	Taiwan Network Information Ce	Operational	↑	Measured 0.00
vni-0/1.0	WAN2	None	Operational	↑	Measured 0.00
vni-0/2.0	WAN3	-	Operational	↑	Measured 0.00

SD-WAN Application Traffic

Remote Branch* ---Please Select--- L2 SDWAN Application Rule ---Please Select--- Latency Jitter Packet Loss MOS

Recent Events

Health Monitor

Config Sync Status: IN_SYNC
Reachability Status: REACHABLE

Policy Violations

Packet drop no valid available link: 0

The screenshot shows the Versa Director GUI interface. The top navigation bar includes tabs for Monitor, Analytics, Configuration, and Administration. The left sidebar shows a tree structure for 'provider-org' with tenants Tenant1 through Tenant10. The main content area has several cards:

- Recent Events**: Shows counts for Critical (0), Major (0), Minor (0), Indeterminate (1), and Warning (0).
- Health Monitor**: Statuses include Config Sync Status (IN_SYNC), Reachability Status (REACHABLE), Service Status (GOOD). Metrics like Interfaces (3 up, 0 down), BGP Adjacencies (4 up, 0 down), and IKE Status (2 up, 0 down) are listed.
- Policy Violations**: Lists violations: Packet drop no valid available link (0), Packet drop attributed to SLA action (0), and Packet Forward attributed to SLA action (0).
- Appliance Activity**: A donut chart titled 'Top Applications Sessions' showing UNKNOWN: 219 Sessions, UNKNOWN_UDP: 2 Sessions, and a small red segment for Sessions.
- Usage**: Shows Current Usage(Kbps) at 0, with a 'Fetch' button.

Select the Services tab in the horizontal menu bar to display the networking software and security services that are enabled and running on the device.

The screenshot shows the Versa Director GUI interface with the Services tab selected in the top navigation bar. The left sidebar is identical to the previous screenshot. The main content area displays a grid of service icons:

Services			Networking																
SDWAN	NGFW	TDF	CGNAT	SDLAN	IPSEC	Sessions	SCI	Secure Access	Interfaces	Routes	BGP	OSPF	OSPFv3	BFD	DHCP	DNS Stats	COS	VRRP	LEF
									ARP	IP-SLA	PIM	IGMP	dot1x	RIP	Switching	LLDP	TWAMP	SaaS App	

Select the System tab in the horizontal menu bar to display hardware and system-level information for the device.

Administrator

Monitor Analytics Configuration Administration

Home SDWAN-Branch1

Search

provider-org Tenant1 Tenant2 Tenant3 Tenant4 Tenant5 Tenant6 Tenant7 Tenant8 Tenant9 Tenant10

SDWAN-Branch1 : 10.20.64.106 Location 1 Hacker Way Menlo Park, CA, USA 94025

Shell Config Status Upgrade Subscription

Reachable

CPE Resources

System Summary

SDWAN-Branch1 - Summary

System Overall Status

Associate Templates

NTP Client Statistics

License

Screenshot

Build

Select the Tools tab in the horizontal menu bar to issue ping or traceroute commands on the device, or perform a tcpdump or speed test on the device.

The screenshot shows the SD-WAN Branch 1 interface. At the top, there are tabs for Monitor (highlighted in green), Analytics, Configuration, and Administration. Below the tabs, a navigation bar includes Home, SDWAN-Branch1, Search, Summary, Services, System, Tools, Shell, Config Status, Upgrade, and Subscription. On the left, a sidebar lists tenants: provider-org (selected), Tenant1, Tenant2, Tenant3, Tenant4, Tenant5, Tenant6, Tenant7, Tenant8, Tenant9, and Tenant10. The main content area displays the IP address 10.20.64.106, location (1 Hacker Way Menlo Park, CA, USA 94025), and a green 'Reachable' status. Below this are four orange buttons: Ping, Traceroute, Tcpdump, and SpeedTest. At the bottom, there is a 'Results' section with a 'Clear' button.

Monitor a Tenant

When you select a tenant in the left menu bar, you display real-time status information for the tenant's devices. In the horizontal menu bar, you select the display option, either Summary or Devices.

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/02_Director_GUI_Overview.html

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Summary View

On the Monitor home screen, select the Summary tab in the horizontal menu bar to display a summary of real-time information about the organization. The information displays in a number of panes and is presented in table, graphical, and map formats. For example:

The screenshot shows the Versa Director Monitor interface with the "Monitor" tab selected in the top navigation bar. The main content area is divided into several sections:

- Asset Summary:** A table showing the count of devices in various categories: SDWAN Controllers (2 Up, 0 Down), SDWAN Hubs (0 Up, 0 Down), Hub Controllers (0 Up, 0 Down), SDWAN Branches (4 Up, 0 Down), vCPEs (0 Up, 0 Down), uCPEs (0 Up, 0 Down), and Sub Organizations (0 Up, 0 Down).
- Tenant Health:** A table showing the status of various tenant components: Config Sync Status (6 Up, 0 Down, 0 Disabled), Reachability Status (6 Up, 0 Down, 0 Disabled), Service Status (6 Up, 0 Down, 0 Disabled), Interfaces (22 Up, 0 Down, 0 Disabled), BGP Adjacencies (24 Up, 0 Down, 0 Disabled), IKE Status (18 Up, 0 Down, 0 Disabled), and Paths (150 Up, 0 Down, 0 Disabled).
- Recent Events:** A circular gauge chart showing event counts: Critical (0), Major (0), Minor (0), Indeterminate (0), and Warning (0).
- Map View:** A map of the United States showing the locations of tenant devices. A green dot marks New York, and a blue dot marks Los Angeles.
- System Summary:** A table showing system statistics: Hardware Information (1), Software Version (1), Hardware Model (1), Security Packages (1), OS Security Packages (1), and Appid Protocol Bundle Version (0).
- Application Activity:** A section indicating "No Data to display".
- Services:** A section showing service counts: SDWAN (6), NGFW (2), and CGNAT (3).

The Asset Summary, Tenant Health, Recent Events, System Summary, Application Activity, and Services panes show the same type of information as for an organization, as described in [Monitor an Organization](#), above.

The Map View pane shows the location of the tenant's devices. Hover over a device for more information about it.

Devices View

On the Monitor home screen, select the Devices tab in the horizontal menu bar to display a table in the main pane that lists all the tenant's devices. For example:

Name	Mgmt. Address	Tags	Type	Service Start Ti...	Software Version	Organizations	Snap...	Config Syncr...	Reachability	Status	Service	Locked
SDWAN-Branch1	10.20.64.106		Branch	Thu, Oct 07 20...	21.2.2-GA	Tenant1,Tenant2,Ten...				Up		
SDWAN-Branch2	10.20.64.104		Branch	Thu, Oct 07 20...	21.2.2-GA	Tenant1,Tenant2,Ten...				Up		
SDWAN-Branch4	10.20.64.108		Branch	Thu, Oct 07 20...	21.2.2-GA	Tenant1,Tenant2,Ten...				Up		
SDWAN-Branch5	10.20.64.101		Branch	Fri, Oct 08 202...	21.2.2-GA	Tenant1,Tenant2,Ten...				Up		
SDWAN-Controller1	10.48.80.11		Controller	Thu, Oct 07 20...	21.2.2-GA	Tenant1,Tenant2,Ten...				Up		
SDWAN-Controller2	10.48.80.12		Controller	Thu, Oct 07 20...	21.2.2-GA	Tenant1,Tenant2,Ten...				Up		

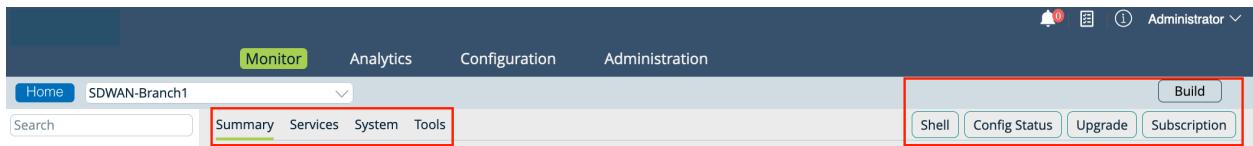
The icons for actions you can perform in the horizontal menu bar are the same as for an organization, as described in [Monitor an Organization](#), above.

When you click on a device's name in the main pane, the detailed status information displayed about the device is the same as for an organization, as described in [Monitor an Organization](#), above.

Monitor Tab in Appliance View

When you select the Monitor tab in Director view and then select a device, the view changes to Appliance view. The Monitor screen has the following items in the horizontal menu bar:

- Summary tab—Displays status information for a device.
- Services tab—Displays the status of services (such as SD-WAN, NGFW, and CGNAT) and networking items (such as interfaces, routes, and BGP) for the device.
- System tab—Displays system status information for a system.
- Tools tab—Allows your to run network reachability and performance tests.
- Build button—Allows you to commit all the configuration changes in the current session to the associated appliance.
- Shell button—Click to open a shell to the device so that you can perform operations from the device's CLI. Note that only the organization's owner can open a shell to the device.
- Configuration Status—Click to perform configuration operations on the device:
 - Sync To
 - Sync From
 - Compare
- Upgrade button—Click to upgrade the software on the device.
- Subscription button—Click to view information about the device's Versa Networks software subscription.



Summary Tab

In Appliance view on the Monitor tab, the Summary tab in the horizontal menu bar displays network and health information about the selected device. Scroll down to see all the panes of information.

Interface	Network Name	Service Provider	Status	Live Data	Bandwidth (Mbps)
vni-0/0.0	WAN1	Taiwan Network Information Ce	Operational ↑ ↑	Configured □	Measured ↑ 0.00 ↓ 0.00 ⏪ Measure
vni-0/1.0	WAN2	None	Operational ↑ ↑	Configured □	Measured ↑ 0.00 ↓ 0.00 ⏪ Measure
vni-0/2.0	WAN3	-	Operational ↑ ↑	Configured □	Measured ↑ 0.00 ↓ 0.00 ⏪ Measure
vni-0/3.101	LAN-Network-T1	-	Operational ↑ ↑	Configured □	Measured ↑ 0.00 ↓ 0.00 ⏪ Measure

The screenshot shows the Versa Director GUI interface. The top navigation bar includes 'Monitor' (highlighted in green), 'Analytics', 'Configuration', and 'Administration'. Below the navigation is a search bar and a breadcrumb trail: 'Home > SDWAN-Branch1'. A sidebar on the left lists 'provider-org' and 'Tenant1' through 'Tenant10'. The main content area has tabs for 'Summary', 'Services', 'System', and 'Tools', with 'Summary' selected. It displays 'SDWAN-Branch1 : 10.20.64.106' and its location '1 Hacker Way Menlo Park, CA, USA 94025'. A 'Reachable' status indicator with a green dot is shown. The 'Recent Events' section shows counts of 0 for Critical, Major, Minor, Indeterminate, and Warning events. The 'Health Monitor' section provides detailed status for config sync, reachability, service, interfaces, BGP adjacencies, IKE status, and paths. The 'Policy Violations' section lists three types of violations with counts of 0. A help icon is located in the bottom right corner.

Services Tab

In Appliance view on the Monitor tab, the Services tab in the horizontal menu bar lists the security and networking services that are running on the selected device.

To display more information about a service, click the name of the service. The information is generally displayed in a table. The following screenshot shows information about the next-generation firewall (NGFW) service. Here, the Policies tab is selected, and NGFW policy-related information is displayed in a table.

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/02_Director_GUI_Overview_...

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Rule Name	Hit Count	Forward Pkt Count	Forward Byte Count	Reverse Pkt Count	Reverse Byte Count	Hit Rate	Inactive Session Cou...
Deny_HTTP_Service...	0	0	0	0	0	0	0
Deny_Based_Sched...	0	0	0	0	0	0	0
Block_HTTP_Service...	0	0	0	0	0	0	0
IP_Filtering1	0	0	0	0	0	0	0
Antivirus	0	0	0	0	0	0	0
Antivirus_Predefined	0	0	0	0	0	0	0
Justify_Social_Media...	0	0	0	0	0	0	0

The display for many of the service and networking components has its own set of tabs that you can use for viewing various types of information related to that service or networking component.

For the Services components, the following menu items are available:

- ADC
 - Load Balancer
 - Monitor
 - Server
 - SSL Proxy
 - Virtual Service
- CGNAT
 - Pools
 - Rules
 - Sessions
- IPsec
 - Branch To Branch
 - IKE History
 - IKE Security Association
 - IPsec History
 - IPsec Security Association
 - Overview

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/02_Director_GUI_Overview_..

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- Profile Statistics
- NGFW
 - Antivirus
 - Decryption
 - DNS Filtering
 - DoS Policies
 - File Filtering
 - IP Filtering
 - Persistent Action
 - Policies
 - Security Packages
 - Sessions
 - URL Filtering
 - User Packages
 - Vulnerability
 - Vulnerability Signature
 - Web Proxy
 - Zone Protection
- SCI
 - No individual tabs
- SD-LAN
 - Forwarding Profiles
 - MOS
 - Policies
 - Sessions
- SD-WAN
 - Aggregate Traffic
 - Application Metrics
 - Forwarding Profiles
 - MOS
 - Policies
 - Sessions
 - Sites
 - SLA End-to-End Paths
 - SLA Metrics
 - SLA Paths
 - Transport Paths
 - Web Proxy

- Secure Access
 - IPsec Profiles
 - Policies
 - Services
- Sessions
 - No individual tabs

For the Networking components, the following menu items are available:

- ARP
 - No individual tabs
- BFD
 - No individual tabs
- BGP
 - Advertised Prefixes
 - Neighbors
 - Received Prefixes
- CoS
 - App QoS Policies
 - Interfaces
 - Per-User Policer
 - QoS Policies
- DHCP
 - Active Leases
 - Lease History
 - Statistics
- DNS Statistics
 - No individual tabs
- dot1x
 - No individual tabs
- IGMP
 - No individual tabs
- Interfaces
 - No individual tabs
- IP SLA Monitors
 - No individual tabs
- LEF
 - Collector Groups
 - Collectors

- LLDP
 - No individual tabs
- OSPF
 - No individual tabs
- OSPFv3
 - No individual tabs
- PIM
 - No individual tabs
- RIP
 - No individual tabs
- Routes
 - No individual tabs
- SaaS Applications
 - No individual tabs
- Switching
 - Bridge Domain Interfaces
 - EVPN Multihoming
 - Ingress Table
 - MAC Address Table
 - Spanning Tree
- TWAMP
 - Session Reflector State
 - Session Sender State
- VRRP
 - No individual tabs

System Tab

In Appliance view on the Monitor tab, the System tab in the horizontal menu bar displays system-related information for the selected device. Scroll down to see all the panes of information.

Home SDWAN-Branch1

Monitor Analytics Configuration Administration

Search

SDWAN-Branch1 : Location 1 Hacker Way Menlo Park, CA, USA 94025 Reachable

CPE Resources

Resource	Usage (%)
CPU	2%
DISK	19%
MEMORY	63%

System Summary

Hardware Information

CPU Count / Cores	4
Disk Size	81G
Manufacturer	QEMU
Memory	7.80GiB
Model	Standard PC (i440FX + PIIX, 1996)
Serial#	br101.TechPub-Testbed
SKU	Not Specified
Hardware Serial #	Not Specified

SDWAN-Branch1 - Summary

Location 1 Hacker Way Menlo Park, CA, USA 94025

Mgmt. Address

System Overall Status

Status	versa-certd	versa-ip2user	versa-redis	versa-rfd	versa-l2cd	versa-rt-cli-xfrm	versa-ppmd	versa-snmp-xform	versa-nodejs	versa-spackmer
Good	running	running	running	running	running	running	running	running	running	running

Associate Templates

Device Group	Multi_Tenant_Group_url	
Staging Template	Staging	
Post Staging Template	Multi_Tenant_PostStaging	
Service Templates	Tenant1-DataStore Tenant1-DataStore Tenant1-DataStore Tenant1-DataStore Tenant1-DataStore	Category: DataStore Category: DataStore Category: DataStore Category: DataStore Category: DataStore

The screenshot shows the Versa Director Management and Orchestration interface. The top navigation bar includes Monitor, Analytics, Configuration, and Administration tabs, with Monitor selected. Below the navigation is a search bar and a breadcrumb trail: Home > SDWAN-Branch1. The main content area has several sections:

- System Overall Status:** Shows various service status (e.g., versrsa-certd running, versrsa-ip2user running, etc.).
- Associate Templates:** Lists device group, staging template, post staging template, and service templates, along with their categories.
- NTP Client Statistics:** Displays packet counts and current time.
- License:** Shows mode (Subjugated) and state (Active).

Tools Tab

In Appliance view on the Monitor tab, the Tools tab in the horizontal menu bar allows you to perform status and reachability testing on the selected device.

The screenshot shows the Versa Director Management and Orchestration interface with the Tools tab selected. The top navigation bar and search bar are identical to the previous screenshot. The main content area includes:

- Tools:** A row of four icons: Ping, Traceroute, Tcpdump, and SpeedTest.
- Results:** A section labeled "Results" with a "Clear" button.

You can use the following tools:

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/02_Director_GUI_Overview_..

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- Ping—Issue a ping command to check the reachability of other devices in the network. For more information, see [Access Monitoring Tools](#).
- Speedtest—Run internet speed tests from the device to an internet speed-test server. For more information, see [Run Internet Speed Tests](#).
- Traceroute—Issue a traceroute command to check the path to another device in the network. For more information, see [Access Monitoring Tools](#).
- Tcpdump—Display a description of the contents of packets on a network interface. For more information, see [Access Monitoring Tools](#).

Configuration Tab in Director View

In Director view, the screens on the Configuration tab allow you to configure networking features and security services. There are three ways to perform configuration:

- Templates—You use configuration templates to deploy common network and security elements across multiple devices in an organization. The VOS software provides predefined configuration templates that automate the many time-consuming and repetitive tasks involved in device configuration. You can modify the predefined configuration templates or create custom templates. You perform configuration using templates when you already know what you need to configure and what needs to be applied to multiple devices. You would typically use templates when initially setting up an organization's devices.
For portions of the configuration that differ from device to device, such as IP addresses, you configure these as variables in the templates and then you bind them to the device when you send the configuration parameters from the Director node to the VOS device. The variables are called *bind variables*, and you define them in templates by *parameterizing* the value of the option.
- Devices—You can configure individual devices in an organization with networking features and security services specific to the device. These configurations are temporary and are overwritten the next time you apply a template to the device.
- Objects—Some configurations require you to create specific network elements, which are called *objects*.

Configure VOS features using templates or by configuring devices differ as follows:

- Permanent configuration—To make permanent configuration changes, you use templates, and you configure the settings by selecting Templates > Device Templates in the horizontal menu bar. Then, in the main pane, click the name of the template that you want to modify. The view changes to Appliance view, and the drop-down menu to the right of the Home button shows the name of the template. You perform configuration using templates when you already know what you need to configure and what needs to be applied to multiple devices. After you make the template modifications, you perform a commit operation to apply the template to the VOS device or devices. When you apply the template to the VOS devices, it overrides the existing configuration on the VOS device configuration with configuration from the template, and any temporary changes you may have made are overridden.
- Temporary configuration—To make temporary configuration changes to an individual device, select Devices > Device in the horizontal menu bar. Then, in the main pane, select the device name. The view changes to Appliance view, and the drop-down menu to the right of the Home button shows the name of the device. Any modifications you make to the VOS device are applied immediately. However, these modifications are overwritten the next time you apply a template to the device. Using this method to configure VOS devices is useful when you are testing a new configuration and you need to make changes and see the effects of the changes right away.

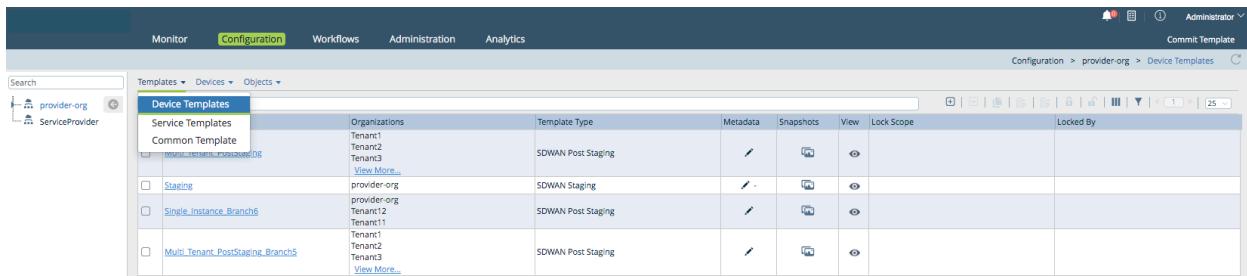
Configuration Using Templates

Versa Director supports three types of templates:

- Device templates—Also known as post-staging templates, are a baseline configuration that can be deployed across branches, saving time and effort in configuring and deploying similar services across many branches in a network.
- Service templates—These are service-specific configurations that can be used to configure certain services. They can then be applied to device configurations to enable the services.
- Common templates—Also known as data store templates, are automatically created for an organization. There is only one common template for any tenant or organization. The common template is always applied by default to all devices in the tenant or organization.

For more information about templates, see [Overview of Configuration Templates](#).

To view existing device, service, and common templates, select the Configuration tab in the top menu bar and hover over Templates in the horizontal menu bar. Then, click the Down arrow and select an item in the drop-down menu. The templates displayed are those that have been created from the Workflows tab. For more information, see Workflows Tab, below.



The screenshot shows the Versa Director interface with the Configuration tab selected. In the top navigation bar, 'Templates' is highlighted in the 'Devices' dropdown. The main pane displays a table titled 'Device Templates' with the following data:

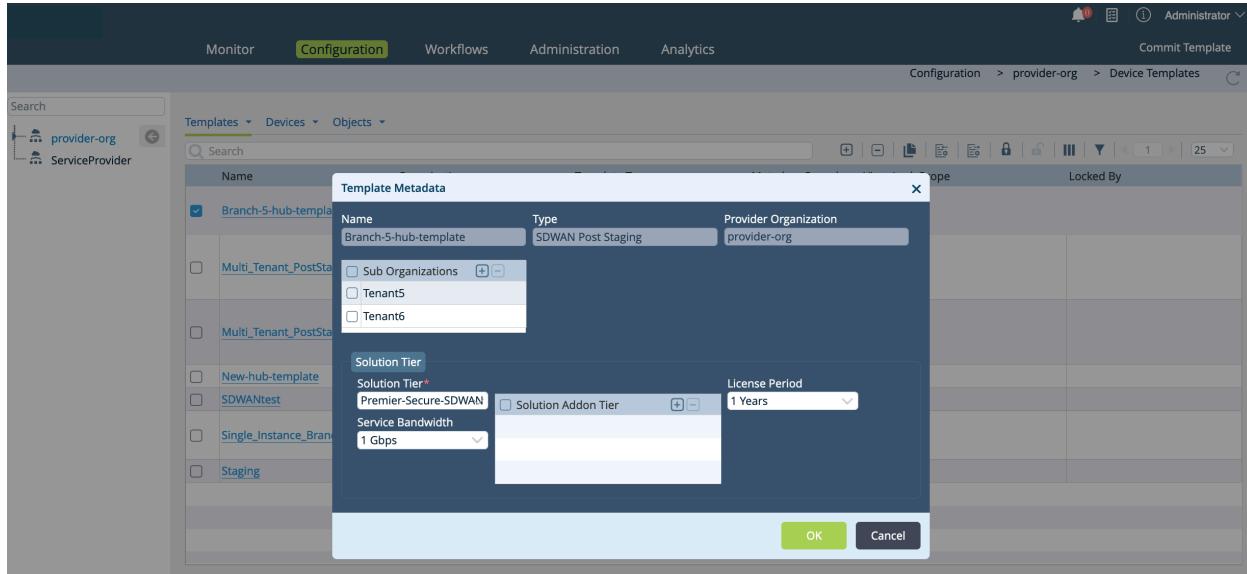
Name	Organizations	Template Type	Metadata	Snapshots	View	Lock Scope	Locked By
Service Templates	Tenant1 Tenant2 Tenant3	SDWAN Post Staging	/	/	/		
Common Template							
Multi_Tenant_PostStaging_Branch5	Tenant1 Tenant2 Tenant3	SDWAN Post Staging	/	/	/		
Staging	provider-org	SDWAN Staging	/	/	/		
Single_Instance_Branch6	provider-org Tenant12 Tenant11	SDWAN Post Staging	/	/	/		

The table in the main pane shows the following information:

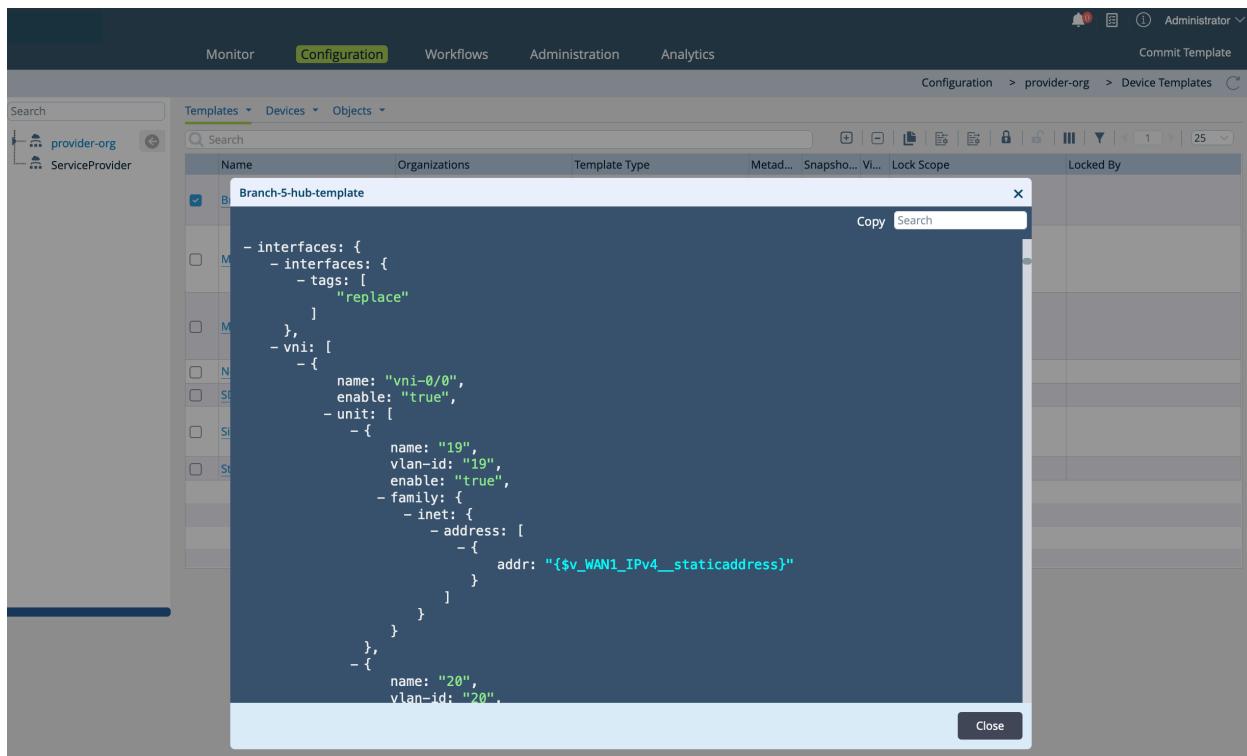
- Name—Name of the template.
- Organizations—Organizations and tenants whose configurations are using the template.
- Template Type—Type of template:
 - Staging templates—Designed to redirect the device to the staging Controller device, and they are primarily used on the Versa Networks global ZTP server.
 - Post-staging templates—Main template that is associated with a device.

For more information, see [Overview of Configuration Templates](#).

- Metadata—Click the Pencil icon to view and edit the template's metadata.



- Snapshot—Click to view, create, or modify snapshots of the template. For more information, see [Manage Template Snapshots](#).
- Eye icon—Click to view the template configuration in CLI format.



- Lock Scope and Locked By—Displays information if the template is locked. For more information, see [Manage Template Snapshots](#) and [Create and Manage Staging and Post-Staging Templates](#).

To perform operations on a template, click the box to the left of the template's name to enable operation icons in the

horizontal menu bar.

The screenshot shows the Versa Director Configuration interface. The top navigation bar has tabs for Monitor, Configuration (which is selected), Workflows, Administration, and Analytics. Under Configuration, there are links for provider-org and Device Templates. The main content area displays a table of device templates. The table has columns for Name, Organizations, Template Type, Metadata, Snapshot, View, Lock Scope, and Locked By. A red box highlights the top-right toolbar, which contains icons for Add, Delete, Clone, Import, Lock, Unlock, Filter, Screen number, and Items per page. The URL https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/02_Director_GUI_Overview_... is visible at the bottom of the page.

You can perform the following operations:

- Add icon—While you can create a template on the screen, it is strongly recommended that you create templates on the Workflows tab.
- Delete icon—Click to delete the template. You are prompted to confirm the deletion request.
- Clone icon—Click to create a copy of the template. For more information, see [Create and Manage Staging and Post-Staging Templates](#).
- Import icon—Click to import a template. For more information, see [Create and Manage Staging and Post-Staging Templates](#).
- Lock and Unlock icons—Click to lock or unlock a template. For more information, see [Create and Manage Staging and Post-Staging Templates](#).
- Column Filter icon—Click to select the columns to display or hide.
- Filter Records icon—Click, and in the Filter Records popup window, select specific records to display.
- Screen number box—Displays the screen number when information is displayed on multiple screens.
- Items per page box—Select the number of lines in the table to display on each screen.

Configuration of Devices

To view existing devices, device groups, and device bind data, select the Configuration tab in the top menu bar and hover over Devices in the horizontal menu bar. Then, click the Down arrow and select an item in the drop-down menu.

Name	Management Address	Type	Time Created	Service Start Time	Software Version	Site ID	Organizations	Snapshot	Config Synchronized	Reachability	Service	Locked
SDWAN-Branch1	10.20.64.106	Branch	Tue, Jul 23 2019, 14:38	Wed, Aug 28 2019, 03:00	20.2.0-FRS	106	Tenant1,Tenant2,Tenant3,Ten...				Up	
SDWAN-Branch2	10.20.64.104	Branch	Tue, Jul 23 2019, 14:42	Tue, Jul 23 2019, 14:50	20.2.0-FRS	104	Tenant1,Tenant2,Tenant3,Ten...				Up	
SDWAN-Branch4	10.20.64.108	Branch	Tue, Jul 23 2019, 14:42	Tue, Jul 23 2019, 14:52	20.2.0-FRS	108	Tenant1,Tenant2,Tenant3,Ten...				Up	
SDWAN-Branch5	10.20.64.101	Branch	Tue, Jul 23 2019, 14:36	Tue, Jul 23 2019, 21:49	20.2.0-FRS	101	Tenant1,Tenant2,Tenant3,Ten...				Up	
SDWAN-Branch6	10.20.64.103	Branch	Tue, Jul 23 2019, 15:00	Tue, Jul 23 2019, 22:15	20.2.0-FRS	103	Tenant1,Tenant1,provider...				Up	
SDWAN-Controller1	10.48.80.11	Controller	Tue, Jul 23 2019, 14:12	Tue, Jul 23 2019, 14:00	20.2.0-FRS	1	Tenant1,Tenant2,Tenant3,Ten...				Up	
SDWAN-Controller2	10.48.80.12	Controller	Tue, Jul 23 2019, 14:13	Tue, Jul 23 2019, 13:58	20.2.0-FRS	2	Tenant1,Tenant2,Tenant3,Ten...				Up	

For devices, the table in the main pane shows the following information:

- Name—Name of the device.
- Management Address—Management IP address of the device.
- Tags—Create, delete, or display tags to associate with the device.
- Type—Type of device, either Branch or Controller.
- Service Start Time—Time when the device started operating.
- Software Version—The software version running on the device.
- Site ID—Identifier of the site in which the device is located.
- Organization—Organizations using the device.
- Snapshot—Click to view, create, or modify snapshots of the template. For more information, see [Manage Template Snapshots](#).
- Status—Status information about the device:
 - Configuration Synchronized—Whether the configurations on the Director node and the device are synchronized (identical).
 - Reachability—Whether the device is reachable from the Director Note.
 - Service—Whether Versa services are running on the device (Up or Down).
 - Lock—Click to lock or unlock access to the device.

For device groups, the table in the main pane shows the following information:

- Name—Name of the device group.
- Organization—Organization to which the device group belongs.
- Contact Information—Email address and phone number of the person responsible for the organization.
- Members—Appliances and devices that are part of the device group.

On Devices > Device Bind Data, you can view and define variables for parameterized fields.

To perform operations on a device, click the box to the left of the device's name to enable operation icons in the horizontal menu bar.

The screenshot shows the 'Devices' tab under the 'provider-org' template in the 'Configuration' section of the Versa Director GUI. The table displays the following data:

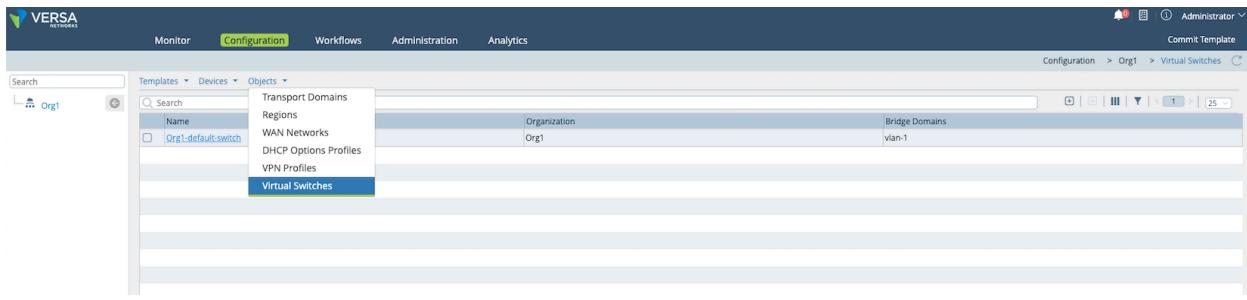
Name	Mgmt. Address	Tags	Type	Service Start Ti...	Software Version	Organizations	Snap...	Config Synchron...	Reachability	Status	Service	Locked
<input checked="" type="checkbox"/> SDWAN-Branch1	10.20.64.106		Branch	Thu, Oct 07 20...	21.2.2-GA	Tenant1,Tenant2,Ten...				Up		
<input type="checkbox"/> SDWAN-Branch2	10.20.64.104		Branch	Thu, Oct 07 20...	21.2.2-GA	Tenant1,Tenant2,Ten...				Up		
<input type="checkbox"/> SDWAN-Branch4	10.20.64.108		Branch	Thu, Oct 07 20...	21.2.2-GA	Tenant1,Tenant2,Ten...				Up		
<input type="checkbox"/> SDWAN-Branch5	10.20.64.101		Branch	Fri, Oct 08 202...	21.2.2-GA	Tenant1,Tenant2,Ten...				Up		
<input type="checkbox"/> SDWAN-Branch6	10.20.64.103		Branch	Fri, Oct 08 202...	21.2.2-GA	Tenant12,Tenant11,p...				Up		
<input type="checkbox"/> SDWAN-Controller1	10.48.80.11		Controller	Thu, Oct 07 20...	21.2.2-GA	Tenant1,Tenant2,Ten...				Up		
<input type="checkbox"/> SDWAN-Controller2	10.48.80.12		Controller	Thu, Oct 07 20...	21.2.2-GA	Tenant1,Tenant2,Ten...				Up		

You can perform the following operations:

- Add icon—Click to add a device.
- Delete icon—Click to delete the template. You are prompted to confirm the deletion request.
- Clone icon—Click to create a copy of the template. For more information, see [Create and Manage Staging and Post-Staging Templates](#).
- Import icon—Click to import a template. For more information, see [Create and Manage Staging and Post-Staging Templates](#).
- Lock and Unlock icons—Click to lock or unlock a template. For more information, see [Create and Manage Staging and Post-Staging Templates](#).
- Column Filter icon—Click to select the columns to display or hide.
- Filter Records icon—Click, and in the Filter Records popup window, select specific records to display.
- Screen number box—Displays the screen number when information is displayed on multiple screens.
- Items per page box—Select the number of lines in the table to display on each screen.
- Card icon—Click to display the devices in card view instead of in table view.

Configuration of Objects

To view existing devices, device groups, and device bind data, select the Configuration tab in the top menu bar and hover over Devices in the horizontal menu bar. Then, click the Down arrow and select an item in the drop-down menu.



You can configure the following types of objects:

- Transport Domains—Configure transport domains, to allow communication between branches over dedicated circuits. For more information, see [Configure Transport Domains and WAN Networks](#).
- Regions—Configure regions for use in spoke-hub-hub-spoke (SHHS) topologies. For more information, see [Configure Regional Hub-and-Controller Nodes for SHHS Topologies](#).
- WAN Networks—Associate WAN networks with transport domains. For more information, see [Configure Transport Domains and WAN Networks](#).
- DHCP Options Profiles—Configure and display DHCP options profiles. For more information, see [Configure DHCP](#).
- VPN Profiles (not shown in screenshot above)—Create and display VPN profiles, which are used with site-to-site tunnels. For more information, see [Create Device Templates](#) in the Configure Basic Features article.
- S2S Tunnels (not shown in screenshot above)—Create and display the site-to-site tunnels. For more information, see [Configure Site-to-Site Tunnels](#).
- Virtual Switches—(For Releases 21.1.1 and later.) Configure and display virtual switches, which are used with Layer 2 forwarding. For more information, see [Configure Layer 2 Forwarding](#).
- Cloud Elastic Profile (not shown in screenshot above)—Configure and display the cloud elastic profiles that are associated with a cloud service provider. For more information, see [Configure Dynamic Versa Cloud Gateways](#).

Configuration Tab in Appliance View

When you select the Configuration tab in Director view and then select a device, the view changes to Appliance view.

In Appliance view, the top menu bar shows the Monitor, Analytics, Configuration, and Administration tabs, and the horizontal menu bar shows a Home button and a drop-down box that shows the device's name and allows you to select other devices.

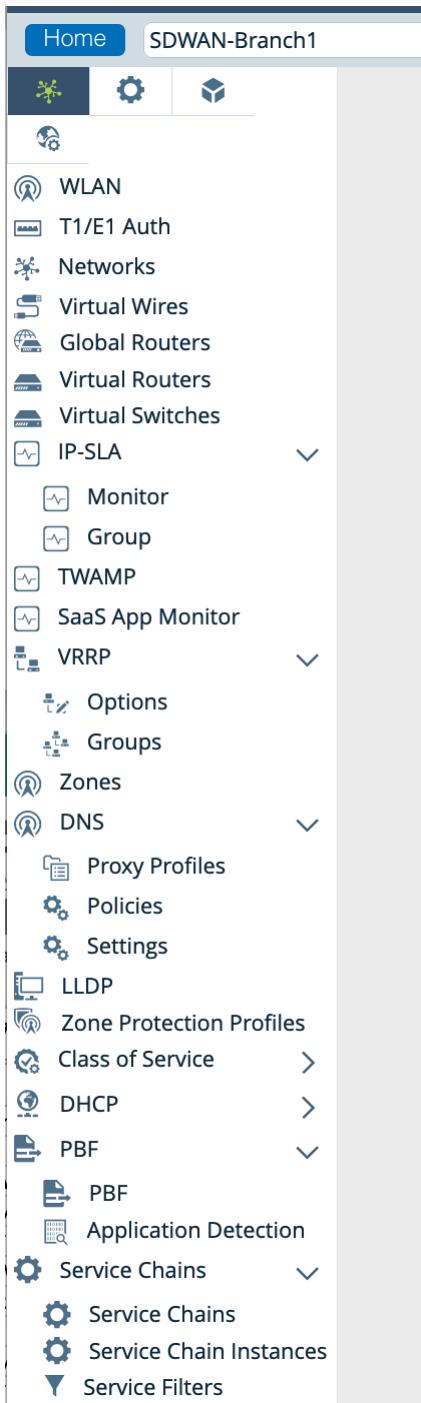
In Appliance view, you can view dashboards and log screens for all VOS devices or for a specific VOS device.

The Appliance view screen has a left menu bar of configuration options that are organized into four groups of related options. The options listed are generally the same on all Director nodes, but some options are available depending on the license subscription tier for the organization. In the left menu bar, click the down arrow to display more options in each list.

To return to Director mode, click the Home button.

The following are the four option lists in the left menu bar:

- Networking —Configure networking properties, such as interfaces, VRRP, zones, routers and switches, class of service, and policy-based forwarding.



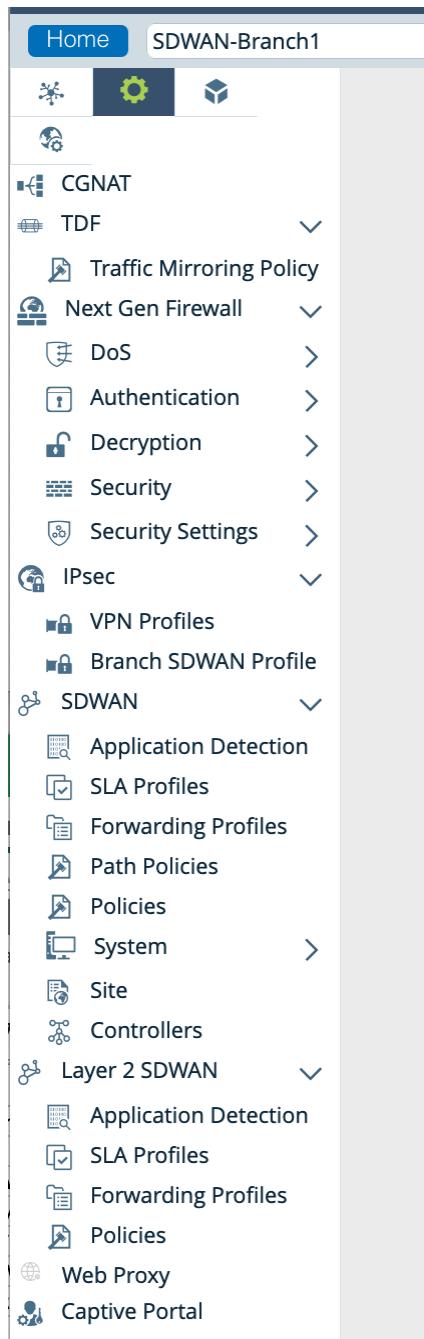
- Services —Configure services, such as CGNAT, next-generation firewall (NGFW), IPsec, SD-WAN, web proxy,

https://docs.versa-networks.com/Management_and_Orchestration/Versa_Director/Configuration/02_Director_GUI_Overview_...

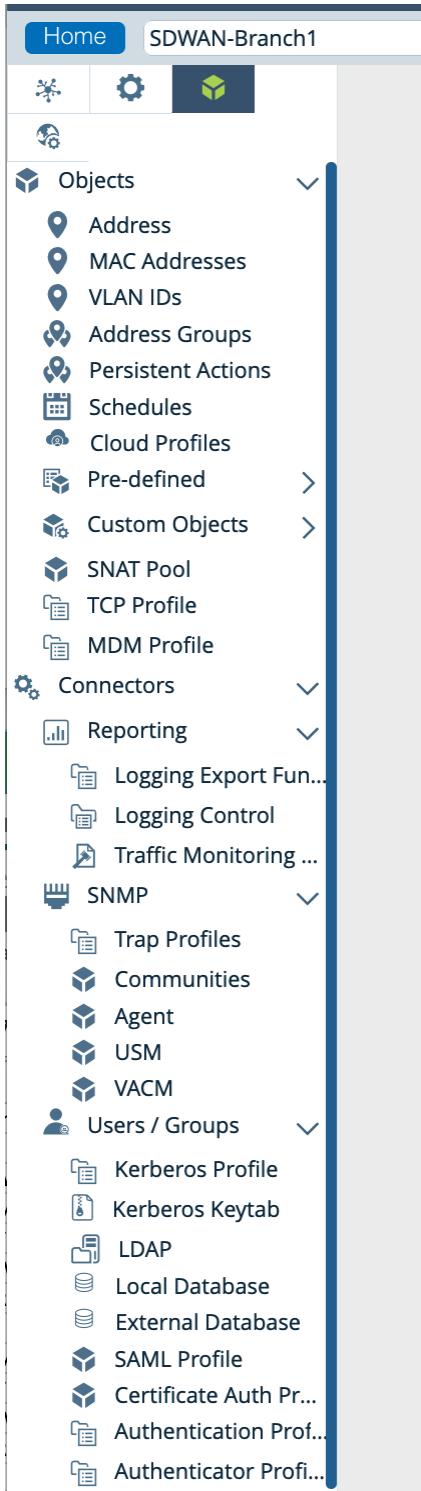
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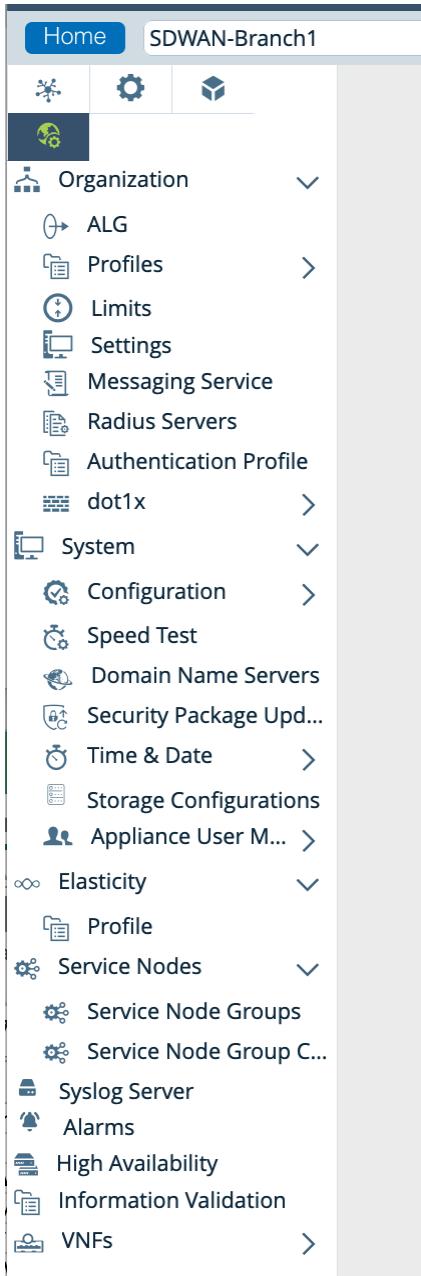
and captive portal.



- **Objects and Connectors** —Configure objects, which are common network functions or service instances, such as address, address groups, schedules, and configure connectors, which are connections that allow traffic to flow from the selected device to another device.



- Others —Configure miscellaneous properties, such as high availability, elasticity, alarms, and syslog servers.



Workflows Tab

The screens on the Workflows tab allow you to view and configure Controller nodes and to view and create templates to use for configuring multiple VOS branch devices that have similar, identical, or nearly identical configurations.

The screenshot shows the Versa Director interface with the 'Workflows' tab selected. On the left, a navigation tree includes 'Infrastructure' (selected), 'Template', and 'Devices'. Under 'Infrastructure', 'Controllers' is expanded, showing 'SDWAN-Controller1' and 'SDWAN-Controller2'. The main area displays a table with columns: Name, Global Controller ID, Status, Last Modified Time, and Last Modified By. The table contains two rows for the controllers.

Name	Global Controller ID	Status	Last Modified Time	Last Modified By
SDWAN-Controller1	1	Deployed	Tue, Jul 23 2019, 14:12	Administrator
SDWAN-Controller2	2	Deployed	Tue, Jul 23 2019, 14:13	Administrator

For portions of the configuration that differ from device to device, such as IP addresses, you configure these as variables in the templates and then you bind them to the device when you send the configuration parameters from the Director node to the VOS device. The variables are called *bind variables*, and you define them in templates by *parameterizing* the value of the option.

The Workflows tab has the following options in the left menu bar:

- Infrastructure
 - Controllers—Configure and deploy Controller nodes on the VOS device. For more information, see [Set Up an SD-WAN Controller](#) in the Perform Initial Software Configuration article.
 - Organizations—Configure customer organizations. For more information, see [Configure Basic Features](#).
- Template
 - Templates—Configure templates to use for staging VOS devices and for deploying VOS devices in production environments. For more information, see [Create and Manage Staging and Post-Staging Templates](#).
 - Application Steering—Configure application-steering templates, in which you create traffic categories, which are also called buckets, and define rules for handling the traffic that fall into those buckets. For more information, see [Create Application-Steering Templates](#).
 - Spoke Groups—Create spoke groups that help direct traffic between the Controller node and specific VOS branches or hubs. For more information, see [Create SD-WAN Spoke Groups](#).
 - Service Chains—Configure chains of service. For more information, see [Configure Service Chains](#).
- Devices
 - Devices—Associate device-specific service templates with a device. For more information, see [Overview of Configuration Templates](#).

Administration Tab in Director View

In Director view, the screens on the Administration tab allow you to perform administrative tasks and some configuration tasks on the network and network devices.

Organization Name	Description	Tags	Parent Organization	CMS Connectors	Global Organization ID	Configured Appliance LD..
provider-org	-	-	none	-	20	View More...
ServiceProvider	-	-	none	CMS-1 Connector-110	19	View More...
Tenant1	-	-	provider-org	-	1	View More...
Tenant10	-	-	provider-org	CMS-1	10	View More...
Tenant101	-	-	provider-org	-	14	View More...
Tenant11	-	-	provider-org	-	11	View More...
Tenant12	-	-	provider-org	-	12	View More...
Tenant2	-	-	provider-org	-	2	View More...
Tenant3	-	-	provider-org	-	3	View More...
Tenant4	-	-	provider-org	-	4	View More...
Tenant5	-	-	provider-org	-	5	View More...
Tenant6	-	-	provider-org	-	6	View More...
Tenant7	-	-	provider-org	-	7	View More...
Tenant8	-	-	provider-org	-	8	View More...
Tenant9	-	-	provider-org	-	9	View More...

The left menu bar in the main pane contains the following items:

- Organizations—View information about provider and customer (tenant) organizations. You can also modify some of the information. While you can add organizations from the Appliances tab, it is recommended that you create them from the Workflows tab. For more information, see [Configure Basic Features](#).
- Appliances—View information about appliances (VOS devices). You can also modify the information and create new VOS devices.
- Connectors—View and manage connectors for the local organization, CMS, authentication, syslog, Kafka, AQMP, and Analytics.
 - You associate CMS connectors with local provider and tenant organizations. For more information, see [Configure Basic Features](#).
 - You create CMS connectors to associate an AWS or Azure virtual machine (VM) with an organization, and when you create site-to-site tunnels. For more information, see [Install on AWS](#), [Install on Azure](#), and [Configure Site-to-Site Tunnels](#).
 - You configure connectors to link the Director node to authentication servers. For more information, see [Configure AAA](#).
 - You configure syslog connectors to export logging information. For more information, see [Configure Log Export Functionality](#).
 - You configure Versa Director to publish alarms and event notifications to an Apache Kafka server. For more information, see [Configure Kafka Connectors](#).
 - You use Advanced Message Queuing Protocol (AMQP) connectors when you enable event and object notifications and when you configure and connect to an AMQP server. For more information, see [Configure AMQP Notifications](#).
 - You configure connectors so that the Director and Analytics nodes can communicate with each other. For more information, see [Versa Analytics Configuration Concepts](#).
- System—Configure Director-wide properties for high availability (HA), authorization, NTP servers, static routes, DNS servers and domains, single sign-on (SSO), timezone, proxy settings, and secure upload settings. View systemwide information for device uptime, resource (disk) usage, license status, and southbound addresses. Upgrade the software on the Director node. For more information, see [Configure Systemwide Functions](#).
- Scheduled Tasks—View, edit, and delete scheduled tasks.

- Notification Configuration—Configure notifications for SMTP/SMS, webhook, and email. For more information, see [Enable SMS Text Messaging](#), [Configure Webhook Notifications for Alarms](#), and [Configure Notifications for Alarms](#).
- Entitlement Manager—Display license subscription information. For more information, see [Licenses and Entitlement](#) and [Configure Basic Features](#).
- Director User Management—Configure users, roles, and map roles to users on the Director node. For more information, see [Configure AAA](#).
- Inventory—Download software upgrade packages, configure hardware devices, and download security packages.
- SD-WAN—Configure global SD-WAN settings.
- Support—Access troubleshooting and support information.

Administration Tab in Appliance View

For items in the left menu bar on the Administration tab that list devices in the main pane, when you click a device, you enter Appliance view. You can recognize Appliance view because the horizontal menu bar contains a Home button. Click the Home button to return to Director view.

Analytics Tab

When you select the Analytics tab in the top menu bar, you are redirected to an Analytics node (typically, one of the nodes in an Analytics cluster), where you can view real-time and historical device information and device system logging data (also called logs). For more information, see [Overview of Analytics Dashboards, Log Screens, and Reports](#).

In Appliance view, you can view dashboards and log screens that display information that applies only to the current appliance. (On the Director view Analytics tab, you can view dashboards and log screens for all appliances or for a specific appliance).

Supported Software Information

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

- Releases 21.1.1 and later support the Configuration > Objects > Virtual Switches screen in Director view.
- The ability to directly change the Versa Director view to Director view, Template view, or Appliance view is available through Versa Networks cloud-hosted SASE services only.

For information about the Director GUI for Releases 21.2 and earlier, see [Director GUI Overview](#).

Additional Information

[Configure AAA](#)

[Configure AMQP Notifications](#)

[Configure Basic Features](#)

[Configure Kafka Connectors](#)

[Configure Log Export Functionality](#)
[Configure Notifications for Alarms](#)
[Configure Site-to-Site Tunnels](#)
[Configure Systemwide Functions](#)
[Configure Webhook Notifications for Alarms](#)
[Director GUI Overview](#)
[Enable SMS Text Messaging](#)
[Install on AWS](#)
[Install on Azure](#)
[Licenses and Entitlement](#)
[Overview of Analytics Dashboards, Log Screens, and Reports](#)
[Use Versa Chatbox](#)
[Versa Analytics Configuration Concepts](#)