


Create SD-WAN Spoke Groups

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

When setting up an SD-WAN, you can create spoke groups that help you direct traffic between the Controller node and specific Versa Operating System™ (VOS™) branches or hubs. You create spoke groups on the Director node and then push them to the branches or hubs.

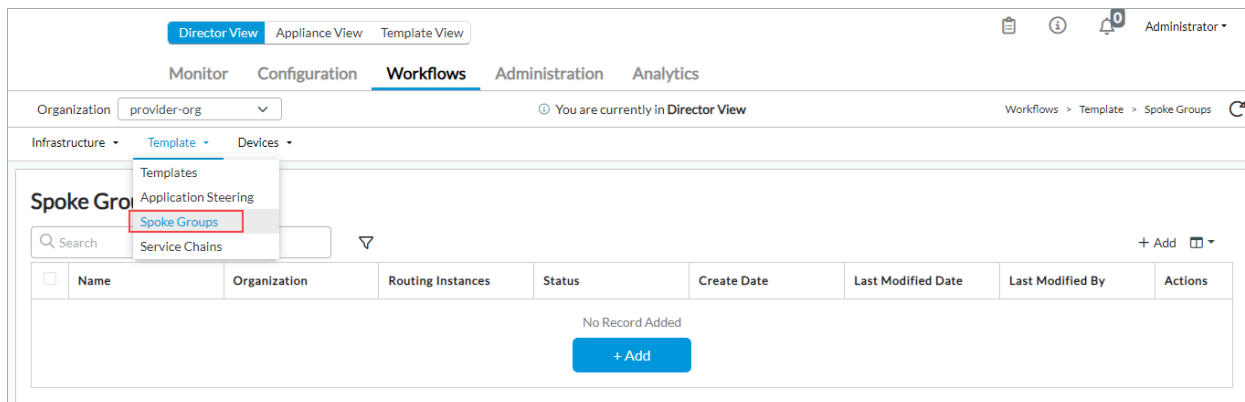
You can configure three types of spoke groups:


- Spoke to hub—Set up a connection between a spoke and a hub. With this type of configuration, there is no communication between spokes, either directly or through a hub. This type of configuration is preferred when you use a hub as a gateway to go out from spoke site.
- Spoke to spoke via hub—Set up a connection between two spokes through a hub. With this type of configuration there is no direct communication between spokes. The spokes have a default route towards the hub. Spokes are blocked from importing routes directly from other spokes. In this case, the hub receives routes from the spoke and exports them to the other spokes.
- Spoke to spoke direct—Set up a direct connection between two spokes, bypassing a hub. With this type of configuration, the two spokes must be in the same spoke group. A spoke can receive LAN routes directly from one spoke to the other spoke.

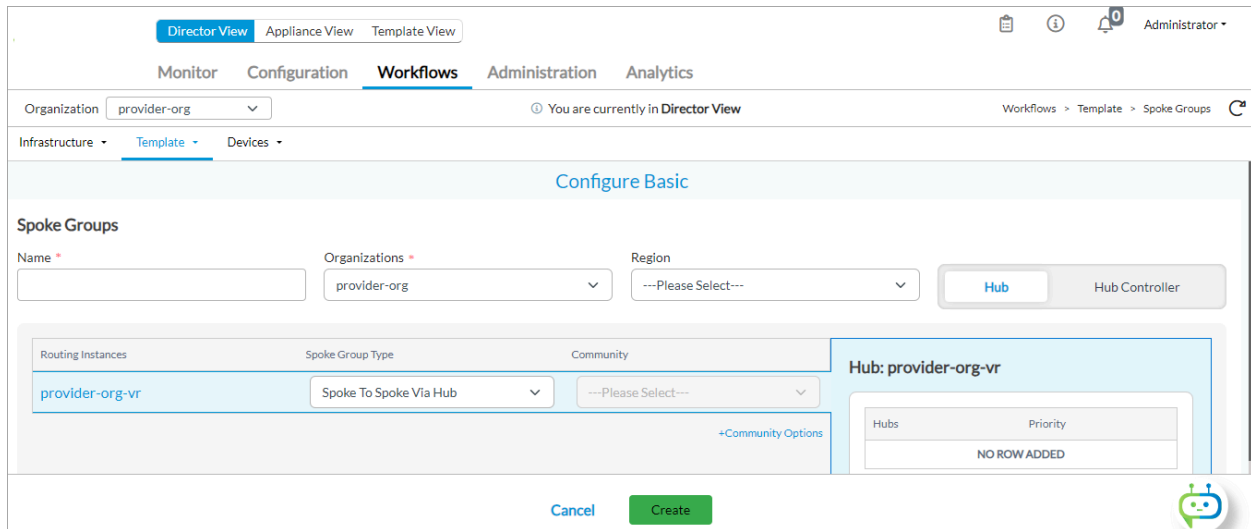
The spoke devices that are in the same spoke group share the same group properties.

To create a spoke group:

1. In Director view, select the Workflows tab in the top menu bar.
2. Select Template > Spoke Groups in the left menu bar.



3. Click the  Add icon to create a spoke group. Enter information for the following fields.



The screenshot shows the 'Configure Basic' section for creating a spoke group in the Versa Networks Director interface. The interface includes a top navigation bar with tabs for 'Monitor', 'Configuration', 'Workflows', 'Administration', and 'Analytics'. The 'Workflows' tab is selected. Below the navigation bar, there is a breadcrumb trail: 'Workflows > Template > Spoke Groups'. The main content area is titled 'Configure Basic' and contains the following fields and sections:

- Spoke Groups** section:
 - Name**: A text input field.
 - Organizations**: A dropdown menu with 'provider-org' selected.
 - Region**: A dropdown menu with '---Please Select---' selected.
 - Buttons**: 'Hub' (highlighted in blue) and 'Hub Controller'.
- Routing Instances** section:
 - Spoke Group Type**: A dropdown menu with 'Spoke To Spoke Via Hub' selected.
 - Community**: A dropdown menu with '---Please Select---' selected.
 - Hub: provider-org-vr** section:
 - Hubs**: A table with columns 'Hubs' and 'Priority'. It shows 'NO ROW ADDED'.

At the bottom of the form, there are 'Cancel' and 'Create' buttons. A '+Community Options' link is also visible.

Field	Description
Name (Required)	Enter a name for the spoke group.
Organization (Required)	Select the name of the organization. The organization can be a provider or a customer. Based on the selected organization, the system populates the routing instances and the hubs.
Region	Select the region in which to place the spoke group.
Hub, Hub Controller	Click to select the type of hub.
Spoke Group Type	<p>Select the type of spoke group:</p> <ul style="list-style-type: none"> ◦ Spoke to Hub Only ◦ Spoke to Spoke via Hub ◦ Spoke to Spoke Direct ◦ Spoke to Spoke Direct across Regions (for hub controllers only)
Community	For the Spoke to Spoke Direct spoke group type, select the name of the community. Click + Community Options to add community names and identifiers.
Priority	<p>Select a value to set the local preference for the hub. If you select a numeric preference value (1 through 8), the local preference value is subtracted from the maximum number of hubs. If you select the priority Not Used, the local preference is set to 100.</p> <p>Note that, unlike hubs and full-mesh branches, spokes ignore the preferences set by the HA pair hubs, which are 110 for routes learned from the primary hub and 109 for routes advertised by the standby (secondary) hub. The priority values you assign here override the two priorities set by the HA pair hubs.</p> <p><i>Values:</i> 1 through 8, Not Used <i>Default:</i> Not Used</p>

4. Click Save.

Supported Software Information

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

https://docs.versa-networks.com/Secure_SD-WAN/01_Configuration_from_Director/SD-WAN_Configuration/Configure__SD-...

Updated: Wed, 23 Oct 2024 08:11:55 GMT

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Additional Information

[Configure Regional Hub-and-Controllers Nodes for SHHS Topologies](#)

[Configure SD-WAN Hubs](#)

[Hub-and-Spoke Topology Overview](#)

[Versa SD-WAN Topology Constructs Based on BGP Attributes](#)