
Natively Integrate a VOS Cloud Gateway on an Azure Virtual WAN Hub

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

This article describes how to natively integrate a Versa Operating System™ (VOS™) SASE cloud gateway on a Microsoft Azure Virtual WAN hub and how to perform zero-touch provisioning (ZTP) of the cloud gateway using Versa Director.

To perform the installation, you do the following:

- Create a VOS template for the VOS cloud gateway.
- Create a VOS device to associate with the cloud gateway.
- Deploy the VOS cloud gateway on an Azure Virtual WAN.

Before You Begin

Before you install the Versa SASE cloud gateway on an Azure Virtual WAN:

- Create a Network Virtual Appliance in an Azure Virtual WAN hub. For more information, refer to the Azure documentation.
- Connect the required virtual networks (VNETs) to a Virtual WAN hub. For more information, refer to the Azure documentation.
- Send an email to Versa Networks Customer Support at support@versa-networks.com to request the custom cloud-init file for your enterprise. When you receive the file, upload it to the Azure portal so you can use it for the VOS cloud gateway installation.

Create a Template for VOS Cloud Gateway

To create a template for the VOS cloud gateway:

1. In Director view, select the Workflows tab in the top menu bar.
2. Select Template > Templates in the left menu bar.
3. Click the Add icon to create a new template. The Create Template steps display.

The screenshot displays the 'Configure Basic' step of a workflow in the Versa Director interface. The progress bar at the top indicates seven steps: BASIC, INTERFACES, TUNNELS, ROUTING, INBOUND NAT, MANAGEMENT SERVERS, and REVIEW. The 'BASIC' step is currently active. The form contains several sections: 'Name' and 'Template Type' at the top; 'Device Type' with a dropdown for 'SDWAN' and radio buttons for 'Full Mesh' (selected), 'Hub', 'Hub Controller', and 'Spoke'; 'Subscription' with dropdowns for 'Solution Tier', 'Service Bandwidth', and 'License Year'; 'Organizations' with dropdowns for 'Organization', 'Sub Organizations', and 'Firewall Service'; 'Controllers' with a dropdown for 'Controller'; 'Redundant Pair' with checkboxes for 'Enable', 'VRRP', and 'Cloud CPE', and dropdowns for 'Redundant Pair Type' and 'Redundant Template Name'; 'Analytics & Software Version' with dropdowns for 'Analytics Cluster' and 'Preferred Software Version'; and 'Resource Tags' with an 'Add Tag' button. At the bottom, there are navigation buttons: 'Cancel', 'Back', 'Save', and 'Next'.

4. Select step 1 Basic, and enter a name for the template (here, the name is versa-sase-in-vwan-01). For information about configuring the other fields, see [Create and Manage Staging and Post-Staging Templates](#).
5. Select step 2, Interfaces.
6. Click a port icon to the right of the Number of Ports field, click WAN from the popup list, and then select vni-0/0 as the WAN interface.

Director View | Appliance View | Template View

Monitor | Configuration | **Workflows** | Administration | Analytics

Organization: provider-org | You are currently in Director View | Workflows > Template > Templates

Infrastructure > Template > Devices

Workflow Progress: BASIC (1) | **INTERFACES (2)** | TUNNELS (3) | ROUTING (4) | INBOUND NAT (5) | MANAGEMENT SERVERS (6) | REVIEW (7)

Configure Interfaces

Template: versa-sase-in-vwan-01

Device Port Configuration

Device Model: Others | Number of Ports: 6 | [Configure]

Virtual Ports: WWAN 0 | WIFI 0 | IRB 0 | T1/E1 0 | DSL 0 | [Configure]

Port Configuration Grid: [Icons for various ports]

Legend: Management (Yellow), WAN (Blue), LAN (Green), L2 (Light Blue), WAN LAN (Dark Blue), Core (Orange), PPPoE (Red)

Port	Interface	VLAN ID	Network Name	Organizations	Priority	IPv4	IPv6	Circuit Type	Circuit Media	Circuit Tags	Sub Interface	Actions
0	vni-0/0	0	WAN2					Static				[+Add Sub Interface]

[Cancel] [Back] [Save] [Next]

7. Click another port icon, click LAN from the popup list, and then select vni-0/1 as the LAN interface.
8. Select step 4 Routing, and in the BGP group of fields, enter information to configure BGP routing.

Director View | Appliance View | Template View

Monitor | Configuration | **Workflows** | Administration | Analytics

Organization: provider-org | You are currently in Director View | Workflows > Template > Templates

Infrastructure > Template > Devices

Workflow Progress: BASIC (1) | INTERFACES (2) | TUNNELS (3) | **ROUTING (4)** | INBOUND NAT (5) | MANAGEMENT SERVERS (6) | REVIEW (7)

Configure Routing

Template: versa-sase-in-vwan-01

Routing

BGP

Network: [Please Select] | IBGP: [] | Local AS: [] | Neighbor IP: [] | Peer AS: [] | BFD: []

LAN1 | false | [\$v_LAN1_BGP_LocalAS_bgpLocalAS] | [\$v_LAN1_BGP_NeighborIP-0_bgpNeig...] | [\$v_LAN1_BGP_PeerAS-0_bgpPeerAS] | false

OSPF / OSPFv3

Network Name: [Please Select] | Area: [] | BFD: []

[Cancel] [Back] [Save] [Next]

9. Click Save.
10. Commit the template.

Create a VOS Device

To create a VOS device to associate with the cloud gateway:

https://docs.versa-networks.com/Getting_Started/Deployment_and_Initial_Configuration/Branch_Deployment/Initial_Configura...

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1. In Director view, select the Workflows tab in the top menu bar.
2. Select an organization in the horizontal menu bar.
3. Select Devices > Devices in the left menu bar.
4. Click the Add icon to add a device. The Configure Basic screen displays.

5. Select step 1 Basic, and enter a name for the device (here, the name is versa-sase-in-vwan-01). For information about configuring the other fields, see [Create Devices and Device Groups](#).
6. Select step 4 Bind Data.
7. In the User Input tab, select Post-Staging Template tab, and then click versa-sase-in-vwan-01.

Device Name	Serial Number	Versa-LAN_BGP_LocalAS_bgpLocalAS	Versa-LAN_BGP_NeighborIP-0_bgpNeighborIP
versa-sase-in-vwan-01	versa-sase-in-vwan-01	Number or 4 Byte Decimal	IPv4 Or IPv6 Address

https://docs.versa-networks.com/Getting_Started/Deployment_and_Initial_Configuration/Branch_Deployment/Initial_Configura...

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- [illegible]

- # Create a VOS Cloud Gateway on an Azure Virtual WAN

To install the VOS Cloud Gateway:

- https://docs.versa-networks.com/Getting_Started/Deployment_and_Initial_Configuration/Branch_Deployment/Initial_Configuration
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versa

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Showing 1 to 12 of 12 results.



Versa Operating System (VOS)


Versa Networks

Virtual Machine

Versa Operating System (VOS) provides integrates Cloud Workloads to Versa Secure SDWAN network

Bring your own license

Create ▾



Versa SASE in vWAN

Versa Networks

Azure Application

Versa SASE in vWAN

Software plan starts at **Free**

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versa-vos-21-1-3

4. Select the Basics tab and enter the details about the subscription. Note that the subscription ID for Versa is Pay-As-You-Go.

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Create Versa SASE in vWAN ...

Basics

VersaSASEinVWAN

Review + create

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Pay-As-You-Go

Resource group * ⓘ

vWAN-Global-Mesh-RG

[Create new](#)

Instance details

Region * ⓘ

West Central US

Managed Application Details

Provide a name for your managed application, and its managed resource group. Your application's managed resource group holds all the resources that are required by the managed application which the consumer has limited access to.

Application Name *

versasase01

Managed Resource Group * ⓘ

mrg-versa-sase-in-vwan-20211208075924

Review + create

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Next : VersaSASEinVWAN >

5. Click Next: Versa SASE in vWAN, and enter the following information in the Versa SASE in VWAN tab.

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Create Versa SASE in vWAN ...

Basics

VersaSASEinVWAN

Review + create

Virtual WAN Hub ⓘ

vWAN-Hub-WestCentralUS

SASEClusterName * ⓘ

versa-sase-in-vwan-01

Scale unit * ⓘ

20 Scale Units - 10.0 Gbps

Versa BGP ASN * ⓘ

64514

User Custom Data * ⓘ

"ACME-CloudInit.sh"

BGP neighbor IPs ["10.100.100.69","10.100.100.68"]Virtual WAN Hub BGP ASN 65515

Configure BGP neighbors on the SASE orchestrator using above information and configure two /32 static routes

Review + create

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Next : Review + create >

Field	Description
Virtual WAN Hub	Select the Virtual WAN hub to use to deploy the network virtual appliance (NVA).
SASE Cluster Name	Enter the Versa SASE cluster name. The name can includes letters, numbers, and characters long.
Scale unit	Enter the scale unit to determine the size and number of resources deployed: <ul style="list-style-type: none">2 scale units (1 Gbps)4 scale units (2 Gbps)10 scale units (5 Gbps)

	<ul style="list-style-type: none"> 20 scale units (10 Gbps)
Versa BGP ASN	Enter the BGP AS number (ASN) for Versa. <i>Default: 64514 (default Versa LAN ASN for BGP peering)</i>
User Custom Data	Click the folder icon and upload the VOS cloud-init file for staging to your enterprise receiving this file from Versa Networks Customer Support, see Before You Begin at

Note that you must enter the BGP neighbor IP addresses and BGP ASN values displayed on this screen when configuring the device bind data in [Create a VOS Device](#), above.

- Click Next: Review + Create. Select the "I agree to the terms and conditions above" check box and click Create.

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Validation Passed

Co-Admin Access Permission

By checking the box and clicking "Create" I give permission for the template provider referenced above (the "Provider") to have Administrative-level access to one or more Azure resources in order to provide support and management services for the template. In the event of an issue arising from a Provider's services or failure to provide services, your sole recourse is with the Provider. Unless Microsoft is the Provider, Microsoft (i) does not approve, monitor or manage the Provider's access, and (ii) bears no responsibility whatsoever for acts or omissions of a Provider.

☒ I agree to the terms and conditions above. *

Basics

Subscription	Pay-As-You-Go
Resource group	vWAN-Global-Mesh-RG
Region	West Central US
Application Name	versasase01
Managed Resource Group Name	mrg-versa-sase-in-vwan-20211208075924

VersaSASEinVWAN

Virtual WAN Hub	vWAN-Hub-WestCentralUS
SASEClusterName	versa-sase-in-vwan-01
Scale unit	20 Scale Units - 10.0 Gbps
Versa BGP ASN	64514
User Custom Data	ACME-CloudInit.sh

Create

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Download a template for automation

https://docs.versa-networks.com/Getting_Started/Deployment_and_Initial_Configuration/Branch_Deployment/Initial_Configura...

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Supported Software Information

Releases 21.1.3 and later support all content described in this article.

Additional Information

[Configure Basic Features](#)

[Create and Manage Staging and Post-Staging Templates](#)