



## Deploy a VOS Branch Using an AWS Marketplace Image through AWS Portal



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

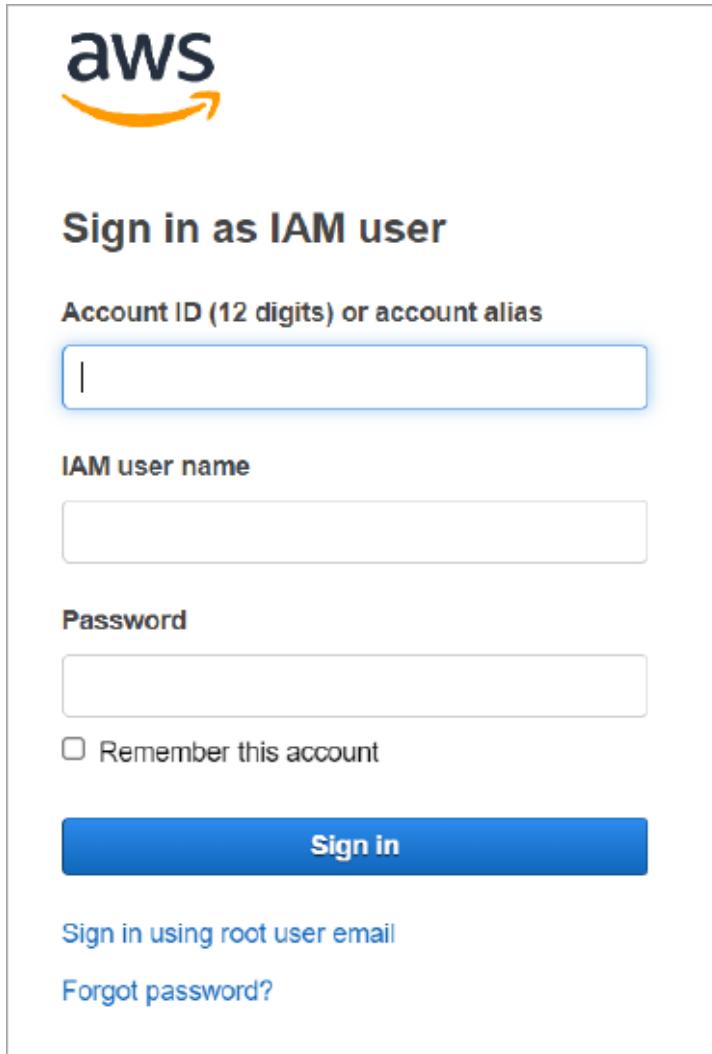
This article describes how to deploy and configure a Versa Operating System™ (VOS™) branch device through AWS portal using an AWS marketplace image. To perform this deployment, you bring up a VOS EC2 instance in AWS.

### Create AWS Resources for a VOS EC2 Instance

1. Log in to AWS account <https://us-east-1.signin.aws.amazon.com/>
2. Click Sign In to the Console.

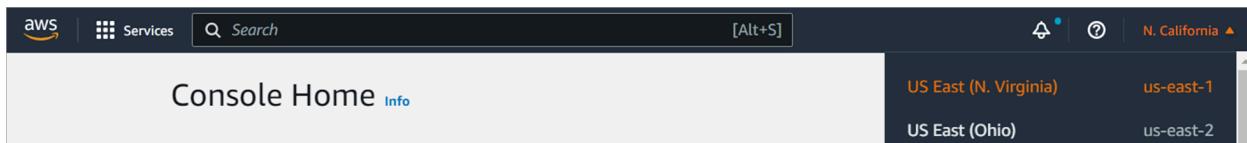


3. Enter your AWS login credentials, and then click Sign In.



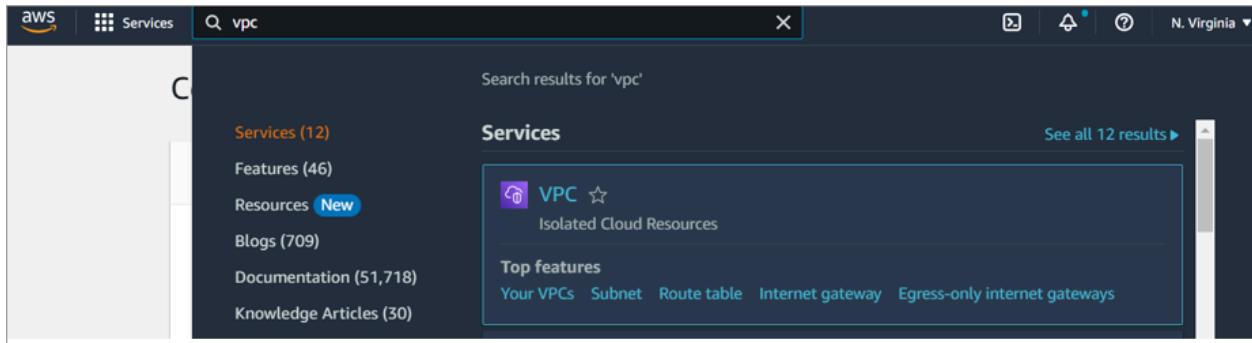
The screenshot shows the AWS sign-in page for an IAM user. It features the AWS logo at the top left. Below it, the heading "Sign in as IAM user" is displayed. A large input field is labeled "Account ID (12 digits) or account alias". Below this is a smaller input field labeled "IAM user name". Further down is another input field labeled "Password". To the left of the "Password" field is a checkbox labeled "Remember this account". At the bottom center is a blue "Sign in" button. Below the "Sign in" button are two links: "Sign in using root user email" and "Forgot password?".

4. To change the default region, on the Console Home page, click the top banner and then select the region in which to create the EC2 instance. The screenshot below shows that we have selected the US East (N. Virginia) us-east-1 region.

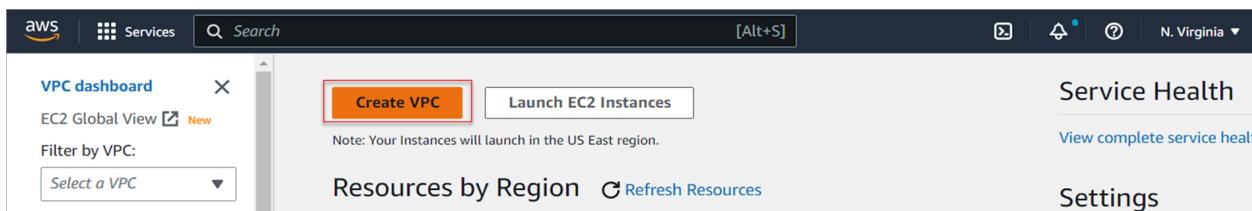


5. Check whether an Amazon virtual private cloud (VPC) is available in the selected region. An Amazon VPC allows you to provision a logically isolated section of the AWS cloud in which you can launch AWS resources in a virtual network that you define. For the virtual network, you can select the IP address range, create subnets, and configure route tables and network gateways. You can use both IPv4 and IPv6 addresses in the VPC for secure access to resources and applications. Also, you can customize the network configuration of your VPC. For example, you can create a public-facing subnet for web servers that have access to the internet, you can place databases and application servers in a private-facing subnet with no internet access, and you can use multiple layers of security, including security groups and network access control lists, to control access to the EC2 instances in each subnet.

To determine whether a VPC is available, in the Find Services box, search in the region for the string "vpc".



6. If the VPC is available, select it.
7. If no VPC is available in the region, click Create VPC to create one.



8. In the Create VPC window, enter a name for the VPC, enter a CIDR IPv4 address, and configure the other fields as required.

## Create VPC Info

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.

### VPC settings

#### Resources to create Info

Create only the VPC resource or the VPC and other networking resources.

VPC only

VPC and more

#### Name tag - *optional*

Creates a tag with a key of 'Name' and a value that you specify.

Versa-VOS-VPC

#### IPv4 CIDR block Info

- IPv4 CIDR manual input  
 IPAM-allocated IPv4 CIDR block

#### IPv4 CIDR

10.239.0.0/16

#### IPv6 CIDR block Info

- No IPv6 CIDR block  
 IPAM-allocated IPv6 CIDR block  
 Amazon-provided IPv6 CIDR block  
 IPv6 CIDR owned by me

#### Tenancy Info

9. To create subnets in the VPC, click VPC > Subnets > Create Subnet. You must create the following three subnets for the VOS branch, and you can create additional subnets as needed:
  - Subnet-1—For management interfaces
  - Subnet-2—For WAN transport interfaces
  - Subnet-3—For LAN (client-side) interfaces
10. In the VPC ID field, select the VPC.

## Create subnet Info

**VPC**

**VPC ID**  
Create subnets in this VPC.

vhc-04241d6673aba4207 (Versa-VOS-VPC) ▾

**Associated VPC CIDRs**

IPv4 CIDRs  
10.239.0.0/16

11. In the Subnet Settings window, for each subnet, enter a name and select the availability zone and CIDR IPv4 address block.

**Subnet settings**  
Specify the CIDR blocks and Availability Zone for the subnet.

**Subnet 1 of 3**

**Subnet name**  
Create a tag with a key of 'Name' and a value that you specify.

Versa-VOS-MGMT-Subnet

The name can be up to 256 characters long.

**Availability Zone Info**  
Choose the zone in which your subnet will reside, or let Amazon choose one for you.

US East (N. Virginia) / us-east-1a ▾

**IPv4 CIDR block Info**

Q 10.239.1.0/24 X

**▼ Tags - optional**

Key	Value - optional	Remove
Q Name X	Q Versa-VOS-MGMT-Subnet X	Remove

Add new tag

You can add 49 more tags.

Remove

## Subnet 2 of 3

### Subnet name

Create a tag with a key of 'Name' and a value that you specify.

The name can be up to 256 characters long.

### Availability Zone Info

Choose the zone in which your subnet will reside, or let Amazon choose one for you.

### IPv4 CIDR block Info



### ▼ Tags - optional

#### Key



#### Value - optional



You can add 49 more tags.

**Subnet 3 of 3**

**Subnet name**  
Create a tag with a key of 'Name' and a value that you specify.

**Versa-VOS-LAN-Subnet**

The name can be up to 256 characters long.

**Availability Zone** [Info](#)  
Choose the zone in which your subnet will reside, or let Amazon choose one for you.

**US East (N. Virginia) / us-east-1a**

**IPv4 CIDR block** [Info](#)

**10.239.3.0/24** X

**▼ Tags - optional**

Key	Value - optional	Remove
<input type="text" value="Name"/> X	<input type="text" value="Versa-VOS-LAN-Subnet"/> X	Remove

**Add new tag**

You can add 49 more tags.

**Remove**

**Add new subnet**

**Cancel** Create subnet

12. Click Create Subnet.
13. Create an internet gateway to provide internet access from the subnets attached to the VOS EC2 instance. To do this, select Internet Gateways in the left navigation bar. Then, click Create Internet Gateway and enter the following information.

VPC > Internet gateways > Create internet gateway

## Create internet gateway Info

An internet gateway is a virtual router that connects a VPC to the internet. To create a new internet gateway specify the name for the gateway below.

### Internet gateway settings

**Name tag**  
Creates a tag with a key of 'Name' and a value that you specify.

**Tags - optional**  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - optional
<input type="text" value="Name"/>	<input type="text" value="Versa-VOS-IGW"/> <span style="border: 1px solid #ccc; padding: 2px;">X</span>
<span style="border: 1px solid #ccc; padding: 2px; border-radius: 4px;">Add new tag</span>	

You can add 49 more tags.

Cancel
Create internet gateway

- a. In the Name Tag—Enter a name for the tag to identify the internet gateway.
- b. Tags—Optionally, enter values in the Key and Value fields.
14. Click Create Internet Gateway.
15. To associate an internet gateway to VPC, select Attach to VPC in the Actions drop-down list.

The following internet gateway was created: igw-0692db169fccb5262 - Versa-VOS-IGW. You can now attach to a VPC to enable the VPC to communicate with the internet.

Attach to a VPC

VPC > Internet gateways > igw-0692db169fccb5262

igw-0692db169fccb5262 / Versa-VOS-IGW

Actions ▾

- Attach to VPC
- Detach from VPC
- Manage tags
- Delete

Details <small>Info</small>			
Internet gateway ID	igw-0692db169fccb5262	State	Detached
VPC ID	-	Owner	920814761460

16. In the Available VPCs field, select the VPC name. Note that the VPC displays only if it is not attached to an internet gateway.

## Attach to VPC (igw-0692db169fccb5262) Info

**VPC**

Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

**Available VPCs**  
Attach the internet gateway to this VPC.

X

▶ AWS Command Line Interface command

Cancel Attach internet gateway

17. Click Attach Internet Gateway.
18. By default, subnets in AWS are not associated with an internet gateway, so you must manually add a default route table to the internet gateway. To do this, select Route Tables in the left navigation bar. Then, click Create Route Table and enter the following information.

**Create route table** Info

A route table specifies how packets are forwarded between the subnets within your VPC, the internet, and your VPN connection.

**Route table settings**

Name - *optional*  
Create a tag with a key of 'Name' and a value that you specify.

VPC  
The VPC to use for this route table.

**Tags**  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

Key	Value - <i>optional</i>	
<input type="text" value="Name"/> <span style="float: right;">X</span>	<input type="text" value="Versa-VOS-Internet-RT"/> <span style="float: right;">X</span>	<span style="border: 1px solid #ccc; padding: 2px 5px; border-radius: 5px; background-color: #fff;">Remove</span>
<span style="border: 1px solid #0072bc; padding: 2px 10px; border-radius: 5px; background-color: #fff;">Add new tag</span>		
You can add 49 more tags.		

Cancel Create route table

- a. Name—Enter a name for the route table.
  - b. VPC field—Select the VPC that you created earlier.
19. Click Create Route Table.
20. Select VPC > Route Tables > Actions > Edit subnet associations.
21. Select the management and WAN subnets to associate with the route table.

VPC > Route tables > rtb-0ef8465121e5b4688 > Edit subnet associations

### Edit subnet associations

Change which subnets are associated with this route table.

Available subnets (2/3)					
	Name	Subnet ID	IPv4 CIDR	IPv6 CIDR	Route table ID
<input checked="" type="checkbox"/>	Versa-VOS-MGMT-Subnet	subnet-0ab5804228d57c952	10.239.1.0/24	-	Main (rtb-0aef1eb6f6991bb65)
<input checked="" type="checkbox"/>	Versa-VOS-WAN-Subnet	subnet-088a9727fbf977d8e	10.239.2.0/24	-	Main (rtb-0aef1eb6f6991bb65)
<input type="checkbox"/>	Versa-VOS-LAN-Subnet	subnet-05ade1547bf652c60	10.239.3.0/24	-	Main (rtb-0aef1eb6f6991bb65)

**Selected subnets**

- subnet-0ab5804228d57c952 / Versa-VOS-MGMT-Subnet
- subnet-088a9727fbf977d8e / Versa-VOS-WAN-Subnet

Cancel **Save associations**

22. Click Save Associations.
23. Select Route Tables in the left navigation bar, and then click Edit Routes to add a default route for the internet gateway.

VPC > Route tables > rtb-0ef8465121e5b4688

### rtb-0ef8465121e5b4688 / Versa-VOS-Internet-RT

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Details																							
Route table ID rtb-0ef8465121e5b4688	Main No	Explicit subnet associations 2 subnets	Edge associations -																				
VPC vpc-04241d6673aba4207   Versa-VOS- VPC	Owner ID 920814761460																						
<a href="#">Routes</a> <a href="#">Subnet associations</a> <a href="#">Edge associations</a> <a href="#">Route propagation</a> <a href="#">Tags</a>																							
<b>Routes (1)</b> <table border="1"> <thead> <tr> <th colspan="5">Routes (1)</th> </tr> <tr> <th colspan="5">           Filter routes             Both         </th> </tr> <tr> <th>Destination</th> <th>Target</th> <th>Status</th> <th>Propagated</th> <th></th> </tr> </thead> <tbody> <tr> <td>10.239.0.0/16</td> <td>local</td> <td>Active</td> <td>No</td> <td></td> </tr> </tbody> </table>				Routes (1)					Filter routes Both					Destination	Target	Status	Propagated		10.239.0.0/16	local	Active	No	
Routes (1)																							
Filter routes Both																							
Destination	Target	Status	Propagated																				
10.239.0.0/16	local	Active	No																				

24. In the Edit Routes screen, click Add Route and enter information about the route.

VPC > Route tables > rtb-0ef8465121e5b4688 > Edit routes

Edit routes

Destination	Target	Status	Propagated
10.239.0.0/16	local	Active	No
0.0.0.0/0	igw-0692db169fccb5262	-	No

**Add route**

Cancel Preview **Save changes**

25. Click Save Changes.

## Create a VOS EC2 Instance

1. Navigate to the AWS Management Console page, search for Marketplace, and click AWS Marketplace Subscriptions.

aws Services **marketplace** X N. Virginia

Search results for 'marketplace'

Services (3) Resources (New) Blogs (387) Documentation (4,862)

**AWS Marketplace Subscriptions** ☆  
Digital catalog where you can find, buy, and deploy software

2. Click AWS Marketplace > Discover Products. Search for Versa Operating System (or simply "versa"), and then click Versa Operating System.

AWS Marketplace X AWS Marketplace > Discover products > Search results

Manage subscriptions Private offers **Discover products** Vendor Insights Private Marketplace Settings

Refine results Categories Infrastructure Software (14) Business Applications (8) Data Products (6) IoT (6) DevOps (5) Industries (4) Professional Services (1)

Delivery methods Amazon Machine Image (18) Data Exchange (6)

Search AWS Marketplace products **versa** versa (27 results) showing 1 - 20 Sort By: Relevance

**Versa Operating System** By Versa Networks Ver 21.2.3-B 1 external review  
Versa Operating System (VOS) is a cloud-native, multi-tenant, and multi-service software platform with a full set of networking capabilities, including SD-WAN, with a wide range of security functions; making it possible to seamlessly design rich managed services and software-defined enterprise...

3. Click Continue to Subscribe, to initiate the subscribe operation.

Versa Operating System

By: [Versa Networks](#) Latest Version: 21.2.3-B

Versa Operating System (VOS) provides seamless and scalable connectivity for SD-WAN branches to your AWS Cloud workloads. Powered by Versa Networks, the Versa Cloud GW

[Show more](#)

Linux/Unix ★★★★★ 0 AWS reviews | 1 external review [View Details](#)

**BYOL**

**Continue to Subscribe**

**Save to List**

**Typical Total Price**  
**\$0.17/hr**

Total pricing per instance for services hosted on c5.xlarge in US East (N. Virginia). [View Details](#)

- Click Continue to Launch.

< Product Detail [Subscribe](#) [Configure](#)

### Configure this software

Choose a fulfillment option and software version to launch this software.

Fulfillment option: 64-bit (x86) Amazon Machine Image (AMI)

Software version: 21.2.3-B (Aug 30, 2022)

**Continue to Launch**

**Pricing information**

This is an estimate of typical software and infrastructure costs based on your configuration. Your actual charges for each statement period may differ from this estimate.

**Software Pricing**

Service	Price
Versa Operating System	\$0/hr
BYOL	<a href="#">View Details</a>

- In the Choose Action field, select Launch through EC2 to launch the configuration through the Amazon EC2 console.

The screenshot shows the AWS Marketplace interface for the Versa Operating System. At the top, there's a navigation bar with links for About, Categories, Delivery Methods, Solutions, AWS IQ, Resources, and Your Saved List. A search bar is also present. Below the navigation, the Versa Networks logo and the text "Versa Operating System" are displayed. A large heading says "Launch this software". Below this, a sub-section titled "Configuration details" lists the following information:

- Fulfillment option: 64-bit (x86) Amazon Machine Image (AMI)  
Versa Operating System  
*running on c5.xlarge*
- Software version: 21.2.3-B
- Region: US East (N. Virginia)

Below the configuration details is a blue button labeled "Usage instructions".

In the main content area, there's a section titled "Choose Action" with a dropdown menu. The menu has one item: "Launch through EC2", which is highlighted with a red box. To the right of the dropdown, a descriptive text reads: "Choose this action to launch your configuration through the Amazon EC2 console." Below the dropdown is a large yellow "Launch" button, also highlighted with a red box.

6. Click Launch.
7. In the Launch an Instance page, enter information for the following fields.

## Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

### Name and tags Info

Name

[Add additional tags](#)

### ▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

[AMI from catalog](#)[Recents](#)[My AMIs](#)[Quick Start](#)

Amazon Machine Image (AMI)



**AMI from catalog**    Recents    My AMIs    Quick Start

---

Amazon Machine Image (AMI)

versa-flexvnf-9b80c9e-21.2.3-B-80bc05de-  
3e00-4cbf-85f6-a60305ef3fe7  
ami-023c8243e625b916b

**Verified provider**

[Browse more AMIs](#)  
Including AMIs from AWS, Marketplace and the Community

Catalog	Published	Architecture	Virtualization	Root device type	ENAv Enabled
AWS	2022-08-	x86_64	hvm	ebs	Yes
Marketplace	30T05:54:07.0				
AMIs	00Z				

If you have an existing license entitlement to use this software, then you can launch this software without creating a new subscription. If you do not have an existing entitlement, then by launching this software, you will be subscribed to this software and agree that your use of this software is subject to the pricing terms and the seller's [End User License Agreement](#)

**▼ Instance type [Info](#)**

Instance type

c5.xlarge

Family: c5 4 vCPU 8 GiB Memory

[Compare instance types](#)

**▼ Key pair (login) [Info](#)**

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

Versa-VOS

[Create new key pair](#)

**▼ Network settings** [Info](#)

VPC - required [Info](#)

vpc-04241d6673aba4207 (Versa-VOS-VPN)  
10.239.0.0/16

Subnet [Info](#)

subnet-0ab5804228d57c952	Versa-VOS-MGMT-Subnet
VPC: vpc-04241d6673aba4207	Owner: 920814761460
Availability Zone: us-east-1a	IP addresses available: 251
CIDR: 10.239.1.0/24	

[Create new subnet](#)

Auto-assign public IP [Info](#)

Disable

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group     Select existing security group

Security group name - required

VOS-SG

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and \_-:/()#,@[]+=;&{}!\$\*

Description - required [Info](#)

This security group was generated by AWS Marketplace and is based on recommend

Inbound security groups rules

- a. Name—Enter EC2 instance name.
  - b. AMI—By default, Amazon Marketplace chooses the Amazon Machine Image (AMI) from the subscription service.
  - c. Select one of the following instance types depending on your configuration and the Versa recommended instance types. For more information, see [Qualified AWS Instances](#):
    - c5.xlarge
    - c5.2xlarge
    - c5.4xlarge
  - d. Select an existing key pair. If you do not have a key pair, click Create New Key Pair. The key pair is used to log in to the VOS EC2 instance.
  - e. In the Network Settings section, select a VPC.
  - f. Create a firewall rule for VOS deployments. For more information, see [VOS Device Firewall Requirements](#).
8. Click Advanced Network configuration. For the first network interface, select the management subnet that you created earlier, and then click Add Network Interface.

Add security group rule

▼ Advanced network configuration

**Network interface 1**

Device index <a href="#">Info</a>	Network interface <a href="#">Info</a>	Description <a href="#">Info</a>
0	New interface ▾	
Subnet <a href="#">Info</a> subnet-0ab5804228d57c952 IP addresses available: 251	Security groups <a href="#">Info</a> New security group	Primary IP <a href="#">Info</a>
Secondary IP <a href="#">Info</a> Select ▾	IPv6 IPs <a href="#">Info</a> Select ▾	IPv4 Prefixes <a href="#">Info</a> Select ▾
IPv6 Prefixes <a href="#">Info</a> Select ▾ The selected subnet does not support IPv6 prefixes because it does not have an IPv6 CIDR.	Delete on termination <a href="#">Info</a> Select ▾	Elastic Fabric Adapter <a href="#">Info</a> <input checked="" type="checkbox"/> Enable EFA is only compatible with certain instance types.
Network card index <a href="#">Info</a> Select ▾ The selected instance type does not support multiple network cards.		
<b>Add network interface</b>		

**Network interface 2**

**Device index** [Info](#) **Network interface** [Info](#) **Description** [Info](#) **Remove**

1	New interface ▾	
<b>Subnet</b> <a href="#">Info</a> subnet-088a9727fbf977d8e ▾ IP addresses available: 251	<b>Security groups</b> <a href="#">Info</a> New security group	<b>Primary IP</b> <a href="#">Info</a>
<b>Secondary IP</b> <a href="#">Info</a> Select ▾	<b>IPv6 IPs</b> <a href="#">Info</a> Select ▾	<b>IPv4 Prefixes</b> <a href="#">Info</a> Select ▾
<b>IPv6 Prefixes</b> <a href="#">Info</a> Select ▾ The selected subnet does not support IPv6 prefixes because it does not have an IPv6 CIDR.	<b>Delete on termination</b> <a href="#">Info</a> Select ▾	<b>Elastic Fabric Adapter</b> <a href="#">Info</a> <input type="checkbox"/> Enable EFA is only compatible with certain instance types.
<b>Network card index</b> <a href="#">Info</a> Select ▾ The selected instance type does not support multiple network cards.		

**Add network interface**

**Network interface 3**

Device index <a href="#">Info</a>	2	Network interface <a href="#">Info</a>	New interface ▾	Description <a href="#">Info</a>	<a href="#">Remove</a>
<b>Subnet <a href="#">Info</a></b>		Security groups <a href="#">Info</a>		Primary IP <a href="#">Info</a>	
subnet-05ade1547bf652c60 ▾		New security group			
IP addresses available: 251					
Secondary IP <a href="#">Info</a>		IPv6 IPs <a href="#">Info</a>		IPv4 Prefixes <a href="#">Info</a>	
Select ▾		Select ▾		Select ▾	
IPv6 Prefixes <a href="#">Info</a>		Delete on termination <a href="#">Info</a>		Elastic Fabric Adapter <a href="#">Info</a>	
Select ▾		Select ▾		<input checked="" type="checkbox"/> Enable EFA is only compatible with certain instance types.	
The selected subnet does not support IPv6 prefixes because it does not have an IPv6 CIDR.					
Network card index <a href="#">Info</a>					
Select ▾					
The selected instance type does not support multiple network cards.					
<a href="#">Add network interface</a>					

CIDR:

Network card index <a href="#">Info</a>	Select ▾	Number of instances <a href="#">Info</a>	1
The selected instance type does not support multiple network cards.		Software Image (AMI)	versa-flexvnf-9b80c9e-21.2.3-B... <a href="#">read more</a>
Add network interface		Virtual server type (instance type)	c5.xlarge
<b>Configure storage <a href="#">Info</a></b>		<b>Summary</b>	
Advanced		Number of instances <a href="#">Info</a>	
1x <input type="text" value="80"/> GiB gp2 ▾ Root volume (Not encrypted)		1	
ⓘ Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage <a href="#">X</a>		Software Image (AMI)	
<a href="#">Add new volume</a>		versa-flexvnf-9b80c9e-21.2.3-B... <a href="#">read more</a>	
0 x File systems		Virtual server type (instance type)	
		c5.xlarge	
<b>Advanced details <a href="#">Info</a></b>		<b>Storage (volumes)</b>	
		1 volume(s) - 80 GiB	
ⓘ Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier <a href="#">X</a>		<a href="#">Cancel</a> <a href="#">Launch instance</a>	

9. For the second network interface, select the WAN subnet that you created earlier. This subnet connects to the

[https://docs.versa-networks.com/Getting\\_Started/Deployment\\_and\\_Initial\\_Configuration/Branch\\_Deployment/Initial\\_Configuration/](https://docs.versa-networks.com/Getting_Started/Deployment_and_Initial_Configuration/Branch_Deployment/Initial_Configuration/)

Updated: Wed, 23 Oct 2024 07:23:57 GMT

Copyright © 2024, Versa Networks, Inc.

- Versa Controller node.
10. For the third network interface, select the LAN subnet that you created earlier. This subnet connects VOS LAN-side networks.
  11. In the Configure Storage section, the 80-GiB root volume is selected by default.
  12. Click Launch Instance.

## Associate an Elastic IP Address with an Interface

After the VOS EC2 instance is up and running, you associate an elastic IP address with an interface. To do this, you must determine the interface ID from the EC2 instance that you created. If the controller is reachable from the branch using a public IP address, you associate the elastic IP address on the WAN and management interfaces.

To associate an elastic IP address with an interface:

1. Navigate to EC2 > Instances, and then select the VOS EC2 instance that you created.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
VOS-Instance-1	i-0c989fad70511cf7f	Running	c5.xlarge	2/2 checks passed	No alarms	us-east-1a	-

2. Select the Networking tab.

Networking details	Info
Public IPv4 address	Private IPv4 addresses 10.239.1.23 10.239.2.39 10.239.3.147
	VPC ID vpc-04241d6673aba4207 (Versa-VOS-VPC)

3. Scroll down until you see the network interface IDs for the NICs attached to the management and WAN subnets, and make a note of these IDs.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D...
VOS-Instance-1	i-0c989fad70511cf7f	Running	c5.xlarge	2/2 checks passed	No alarms	+ us-east-1a	-

Instance: i-0c989fad70511cf7f (VOS-Instance-1)							
<input type="text"/> Filter network interfaces							
Interface ID	Description	IPv4 Prefixes	IPv6 Prefixes	Public IPv4 address	Private IPv4 address		
eni-06291888c223a49fd	-	-	-	-	10.239.1.23		
eni-050acb34726a69a1e	-	-	-	-	10.239.2.39		
eni-056d1a868a631daa5	-	-	-	-	10.239.3.147		

▼ Elastic IP addresses (0) [Info](#)

- Click EC2 > Elastic IP Addresses > Allocate Elastic IP Addresses, and then click Allocate.

EC2 > Elastic IP addresses > Allocate Elastic IP address

## Allocate Elastic IP address Info

**Elastic IP address settings Info**

Network Border Group Info

us-east-1

Public IPv4 address pool

- Amazon's pool of IPv4 addresses
- Public IPv4 address that you bring to your AWS account (option disabled because no pools found) [Learn more](#)
- Customer owned pool of IPv4 addresses (option disabled because no customer owned pools found) [Learn more](#)

Global static IP addresses

AWS Global Accelerator can provide global static IP addresses that are announced worldwide using anycast from AWS edge locations. This can help improve the availability and latency for your user traffic by using the Amazon global network. [Learn more](#)

**Tags - optional**

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

You can add up to 50 more tag

5. Click Actions > Associate Elastic IP Address.

Elastic IP address allocated successfully.  
Elastic IP address 34.231.41.58

**Elastic IP addresses (1/1)**

Filter Elastic IP addresses

<input checked="" type="checkbox"/>	Name	Allocated IPv4 addr...	Type	Allocation ID
<input checked="" type="checkbox"/>	-	34.231.41.58	Public IP	eipalloc-0aa2689218759466d

[https://docs.versa-networks.com/Getting\\_Started/Deployment\\_and\\_Initial\\_Configuration/Branch\\_Deployment/Initial\\_Configuration/](https://docs.versa-networks.com/Getting_Started/Deployment_and_Initial_Configuration/Branch_Deployment/Initial_Configuration/)

Updated: Wed, 23 Oct 2024 07:23:57 GMT

Copyright © 2024, Versa Networks, Inc.

6. In the Associate Elastic IP Address window, enter the following information.

The screenshot shows the 'Associate Elastic IP address' configuration page. At the top, the breadcrumb navigation shows 'EC2 > Elastic IP addresses > Associate Elastic IP address'. The main title is 'Associate Elastic IP address' with an 'Info' link. Below it, a sub-instruction says 'Choose the instance or network interface to associate to this Elastic IP address (34.231.41.58)'. A bold header 'Elastic IP address: 34.231.41.58' is followed by a 'Resource type' section. It asks 'Choose the type of resource with which to associate the Elastic IP address.' Two options are shown: 'Instance' (radio button unselected) and 'Network interface' (radio button selected). A warning message in a callout box states: '⚠ If you associate an Elastic IP address with an instance that already has an Elastic IP address associated, the previously associated Elastic IP address will be disassociated, but the address will still be allocated to your account. [Learn more](#)'.

Below the resource type section is a 'Network interface' input field containing 'eni-06291888c223a49fd', with a clear 'X' icon and a copy/clear icon. A 'Private IP address' input field below it contains 'Choose a private IP address' with a search icon. A 'Reassociation' section follows, asking 'Specify whether the Elastic IP address can be reassigned with a different resource if it is already associated with a resource.' A checkbox labeled 'Allow this Elastic IP address to be reassigned' is present. At the bottom right are 'Cancel' and 'Associate' buttons, with 'Associate' being highlighted by a red box.

- a. Resource Type—Select Network Interface.
  - b. Network Interface—Select the management interface ID of the VOS instance.
7. Click Associate.
8. Repeat Steps 6 and 7, selecting the WAN network interface ID of the VOS instance.

## Disable the Source and Destination Check on the Southbound Interface

By default, each EC2 instance performs a source and destination check to verify that the instance is either the source or destination of any traffic it sends or receives. It is recommended that you disable the source and destination check for

[https://docs.versa-networks.com/Getting\\_Started/Deployment\\_and\\_Initial\\_Configuration/Branch\\_Deployment/Initial\\_Configuration/](https://docs.versa-networks.com/Getting_Started/Deployment_and_Initial_Configuration/Branch_Deployment/Initial_Configuration/)...

Updated: Wed, 23 Oct 2024 07:23:57 GMT

Copyright © 2024, Versa Networks, Inc.

the VOS southbound interfaces, that is for the LAN and WAN interfaces. You can disable this either globally or for individual interfaces.

In the example here, we disable the source and destination check for the VOS WAN and LAN interfaces vni-0/0 and vni-0/1.

To disable the source and destination check for the two southbound interfaces:

1. Navigate to EC2 > Instances, and then select the VOS EC2 instance that you created.
2. Select the Networking tab.

The screenshot shows the AWS EC2 Instances page. A single instance, "VOS-Instance-1" (i-0c989fad70511cf7f), is selected. The "Networking" tab is highlighted with a red border. Below the tabs, a message says, "You can now check network connectivity with Reachability Analyzer." A "Run Reachability Analyzer" button is available. Under "Networking details", it shows Public IPv4 address (empty), Private IPv4 addresses (10.239.1.23, 10.239.2.39, 10.239.3.147), and VPC ID (vpc-04241d6673aba4207).

3. Scroll down until you see the network interface IDs for the NICs attached to the WAN and LAN subnets, and make a note of these IDs.

The screenshot shows the AWS EC2 Instances page with the same instance selected. The "Network Interfaces" section is expanded. It lists three network interfaces: eni-06291888c223a49fd, eni-050acb34726a69a1e, and eni-056d1a868a631daa5. The interface IDs are highlighted with red boxes. Below the interfaces, the "Elastic IP addresses" section is partially visible.

4. Select any WAN network interface ID.
5. Click Interface > Actions > Change Source/Destination Check.

The screenshot shows the AWS Network Interfaces page. At the top, there's a search bar and a 'Clear filters' button. Below that is a table with columns: Name, Network interface ID, Subnet ID, VPC ID, and Status. A single row is selected, showing 'Name: -', 'Network interface ID: eni-050acb34726a69a1e', 'Subnet ID: subnet-088a9727fbf977d8e', 'VPC ID: vpc-04241d6673aba4207', and 'Status: up'. To the right of the table is an 'Actions' dropdown menu with various options like Attach, Detach, Delete, etc., and a 'Change source/dest. check' option which is also highlighted with a red box. Below the table, it says 'Network interface: eni-050acb34726a69a1e'. At the bottom, there are tabs for Details, Flow logs, and Tags, followed by a note: 'You can now check network connectivity with Reachability Analyzer.'

- In the Change Source/Destination Check window, uncheck the Enable option in the Source/Destination Check field.

This is a modal dialog titled 'Change source/destination check'. It displays the network interface 'eni-050acb34726a69a1e'. Below that is a section labeled 'Source/destination check' containing a checkbox labeled 'Enable', which is currently unchecked. At the bottom right of the dialog are two buttons: 'Cancel' and 'Save', with 'Save' being highlighted with a red box.

- Repeat Steps 4 through 6 for the LAN interface.

## Create a Password for the Administrative User

To create a password for the administrative (admin) user:

1. Navigate to EC2 > Instances, and then select the VOS EC2 instance that you created.
2. Select the Details tab, and make a note of the public (Elastic) IP address of management network interface.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
VOS-Instance-1	i-0c989fad70511cf7f	Running	c5.xlarge	2/2 checks passed	No alarms	us-east-1a	-

Instance: i-0c989fad70511cf7f (VOS-Instance-1)

Details Security Networking Storage Status checks Monitoring Tags

Instance summary Info

Instance ID i-0c989fad70511cf7f (VOS-Instance-1)	Public IPv4 address 34.231.41.58 [open address]	Private IPv4 addresses 10.239.1.23 10.239.2.39 10.239.3.147
---	--	--

- Log in to the VOS EC2 instance shell using the key pair that you associated during the EC2 instance creation. The default user is admin.

```
ssh -i key admin@ec2-elastic-ip-address
```

- Set the password to versa123, which is the default password that is used during the ZTP process.



```
14/03/2023 16:34:16 /home/mobaxterm/.ssh ssh -i Versa-VOS.pem admin@34.231.41.58
Warning: Permanently added '34.231.41.58' (RSA) to the list of known hosts.

Versa
VERSA
FLEX

Versa FlexVNF software
Release : 21.2.3 (GA)
Release date: 20220825
Package ID : 9b80c9e

/usr/bin/xauth: file /home/admin/.Xauthority does not exist
[admin@ip-10-239-1-23: ~] $
[admin@ip-10-239-1-23: ~] $ sudo passwd admin
sudo: unable to resolve host ip-10-239-1-23
New password:
BAD PASSWORD: it is based on a dictionary word
Retype new password:
passwd: password updated successfully
[admin@ip-10-239-1-23: ~] $
```

- Start the ZTP process. For more information, see [Use the CLI To Activate VOS Devices](#).

## Supported Software Information

Releases 22.1.1 and later support all content described in this article.

[https://docs.versa-networks.com/Getting\\_Started/Deployment\\_and\\_Initial\\_Configuration/Branch\\_Deployment/Initial\\_Configuration/](https://docs.versa-networks.com/Getting_Started/Deployment_and_Initial_Configuration/Branch_Deployment/Initial_Configuration/)

Updated: Wed, 23 Oct 2024 07:23:57 GMT

Copyright © 2024, Versa Networks, Inc.

## Additional Information

[Activate VOS Devices](#)

[Firewall Requirements](#)

[Qualified AWS, Azure, and Google Cloud Instances](#)