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## Cloud OnRamp

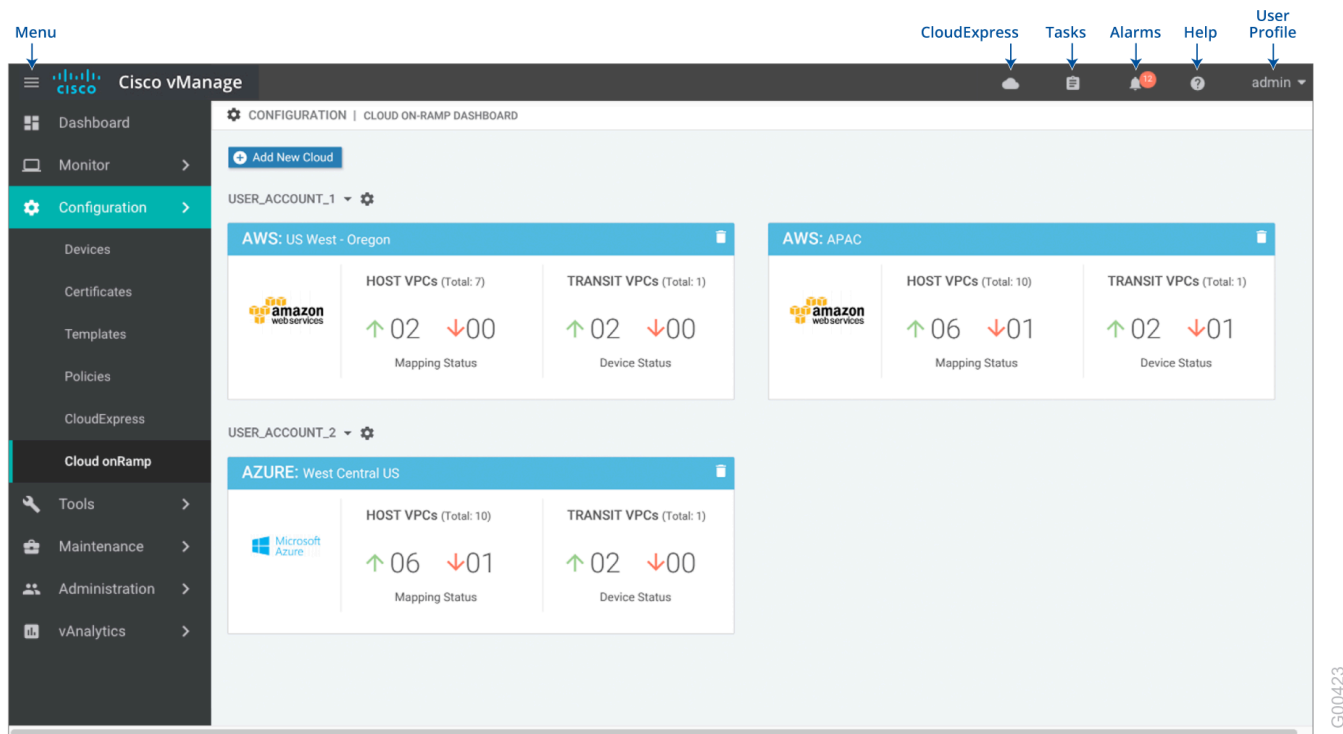
Use the Cloud OnRamp screen to create virtual private cloud (VPC) instances for hosting vEdge Cloud routers in different AWS regions in the public internet. A Cloud OnRamp setup comprises three components: a gateway VPC, which connects a Viptela overlay network to one or more cloud-based applications, a host VPC, which is where cloud-based applications reside, and the connections, or mappings, between the gateway VPC and one or more host VPCs.

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## Screen Elements

- Top bar—On the left are the menu icon, for expanding and collapsing the vManage menu, and the vManage product name. On the right are a number of icons and the user profile drop-down.
- Title bar—Includes the title of the screen, Cloud OnRamp.
- Add New Cloud Instance—Click to create a Cloud OnRamp VPC instance using the cloud instance configuration wizard.
- Cloud OnRamp Dashboard—Displays after you add at least one cloud instance.
  - VPC panes—Located on the Cloud OnRamp Dashboard, directly under the Add New Cloud Instance button, is a pane for each VPC that has been created. For each VPC, the pane shows:
    - Credential value for the VPC.
    - Name of the VPC.
    - Type of VPC. Currently, you can create VPCs only on Amazon AWS.
    - Number of up and down connections for mapped host VPCs.
    - Number of up and down connections for gateway VPCs.





## Create a Cloud Instance

1. Click Add New Cloud Instance.
2. In the Add Cloud Instance—Log In to a Cloud Server popup, enter the information to log in to the cloud server:
  1. In the Cloud drop-down, select the cloud type. Currently, this can be only AWS.
  2. In the API Key field, enter your Amazon API key.
  3. In the Secret Key field, enter the password associated with the API key.
3. Click Log In.  
 The cloud instance configuration wizard opens. This wizard consists of three screens that you use to configure regions, hosts VPCs, and gateway VPCs, and to map host and gateway VPCs to each other. A graphic on the right side of each wizard screen illustrates the steps in the cloud instance configuration process. Steps not yet completed are shown in light gray. The current step is highlighted within a blue box. Completed steps are indicated with a green checkmark and are shown in light orange.
4. Select a region and discover host VPCs:
  1. In the Choose Region drop-down, select a geographical region.
  2. Click Discover Host VPCs. A list of host VPCs discovered in that region is displayed.



3. Select the desired VPCs.
4. Click Next.
5. Add a gateway VPC:
  1. In the Gateway VPC Name field, type a name for the gateway VPC. The name can be up to 128 characters and can contain only uppercase and lowercase letters, the digits 0 through 9, hyphens (–), and underscores (\_). It cannot contain spaces or any other characters.
  2. Under Device Information, enter information about the gateway VPC:
    1. In the vEdge Version drop-down, select the Viptela software version to run on the VPC gateway.
    2. In the Size of Gateway VPC drop-down, select how much memory and how many CPUs to create on the VPC gateway.
    3. In the Device 1 drop-down, select the serial number to use.
    4. In the Device 2 drop-down, select the serial number to use.
  3. Click Next.
6. Map the host VPCs to gateway VPCs:
  1. In the table of host VPCs, select the desired host VPCs.
  2. Click Map VPCs. The Map Host VPCs popup opens.
  3. In the Gateway VPC drop-down, select the gateway VPC to map to the host VPCs.
  4. In the VPN drop-down, select the VPN in the overlay network in which to place the mapping.
  5. Click Map VPCs.
  6. Click Save and Complete.

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## Display Host VPCs

1. In the Cloud OnRamp Dashboard, click the pane for the desired VPC. The Host VPCs/Gateway VPCs screen opens, and Host VPCs is selected by default. In the bar below this, Mapped Host VPCs is selected by default, and the table on the screen lists the mapping between host and gateway VPCs, the state of the gateway VPC, and the VPN ID.
2. To list unmapped host VPCs, click Unmapped Host VPCs. Then click Discover Host VPCs.
3. To display the gateway VPCs, click Gateway VPCs.



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## Map Host VPCs to a Gateway VPC

1. In the Cloud OnRamp Dashboard, click the pane for the desired VPC. The Host VPCs/Gateway VPCs screen opens.
2. Click Unmapped Host VPCs.
3. Click Discover Host VPCs.
4. From the list of discovered host VPCs, select the desired host VPCs
5. Click Map VPCs. The Map Host VPCs popup opens.
6. In the Gateway VPC drop-down, select the desired gateway VPC.
7. In the VPN drop-down, select the VPN in the overlay network in which to place the mapping.
8. Click Map VPCs.

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## Unmap Host VPCs

1. In the Cloud OnRamp Dashboard, click the pane for the desired VPC. The Host VPCs/Gateway VPCs screen opens.
2. Click Mapped Host VPCs.
3. From the list of VPCs, select the desired host VPCs.
4. Click Unmap VPCs.
5. Click OK to confirm the unmapping.

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## Display Gateway VPCs

1. In the Cloud OnRamp Dashboard, click the pane for the desired VPC. The Host VPCs/Gateway VPCs screen opens, and Host VPCs is selected by default.
2. Click Gateway VPCs.

The table at the bottom of the screen lists the gateway VPCs.

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## Add a Gateway VPC

1. In the Cloud OnRamp Dashboard, click the pane for the desired VPC. The Host VPCs/Gateway VPCs screen opens, and Host VPCs is selected by default.
2. Click Gateway VPCs.
3. Click Add Gateway VPC.



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## Delete a Gateway VPC

1. In the Cloud OnRamp Dashboard, click the pane for the desired VPC. The Host VPCs/Gateway VPCs screen opens, and Host VPCs is selected by default.
2. Click Mapped Host VPCs.
3. Select the desired host VPC, and click Unmap VPCs.
4. Click OK to confirm the unmapping.
5. Click Gateway VPCs.
6. Click the Trash icon to the left of the row for the gateway VPC.
7. Click OK to confirm.

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## Additional Information

[Configuring Cloud OnRamp Service](#)

