

Using Custom Routes

When you deploy a Cisco Catalyst 8000V instance in a VPC network, a route is created for each subnet to which the Cisco Catalyst 8000V device is connected. For example, if you deploy a Cisco Catalyst 8000V instance in GCP with two subnets, each subnet has an associated route.

See the following sections to know how to use custom routes in Cisco Catalyst 8000V running on GCP:

- Create Routes, on page 1
- Custom Routes in the Same VPC Network, on page 2
- Routing Between VPC Networks or On-Premises Networks, on page 2

Create Routes

Perform the following steps to create a route that defines the path for the traffic in the VPC network.

Procedure

Step 1 In the console, under **VPC Network**, select **Routes**.

Step 2 From the Route Details page, click **CREATE ROUTE**. Enter the specified values for the following fields:

Table 1: Route Fields

Field	Value
Name	Enter a name, in lowercase, for this address. For example, **`northboundtosouthbound`**.
Description	Enter a description for this address.
Network	The name of the VPC network. For example, **`c8000vnet220`**.
Destination IP range	Enter the destination IP address. For example, **`10.12.1.0/24`**.
Next hop	Enter a value for the Next hop destination by using one of the following fields: **Instance**, **Gateway**, or **IP Address**.

Step 3 Click **Create** to create the route.

Custom Routes in the Same VPC Network

By default, the GCP network infrastructure provides a basic routing service which interconnects all the subnets within a VPC network. By default, packets are blocked between subnets unless firewall rules are changed to allow them to pass.

Routing Between VPC Networks or On-Premises Networks

To connect two VPC networks or to connect a VPC network to an on-premises network, create a route to specify Cisco Catalyst 8000V as the next hop router to each remote network. To force traffic through the Cisco Catalyst 8000V instance, add a route (default route or specific destination route) that points to the Cisco Catalyst 8000V instance.

For example, the following route was added with a destination IP address pointing to the Cisco Catalyst 8000V device. The "Next hop" refers to the Cisco Catalyst 8000V VM instance.