Cloud Router (https://cloud.google.com/router/docs/)
Documentation (https://cloud.google.com/router/docs/) Guides

Creating Cloud Routers

Create a Cloud Router that you can use to dynamically exchange routes between a VPC network and your on-premises network. After you can create a router, you can establish BGP sessions between it and your on-premises router.

When you create a Cloud Router, you can use its default route advertisements or specify custom advertisements. By default, Cloud Router advertises subnets in its region for regional dynamic routing or all subnets in a VPC network for global dynamic routing.

With custom route advertisement, you choose which routes Cloud Router advertises, such as external static IP addresses or specific CIDR ranges.

For more information about the dynamic routing mode or custom route advertisements, see Dynamic routing mode (https://cloud.google.com/router/docs/concepts/overview#dynamic-routing-mode) or BGP route advertisements (https://cloud.google.com/router/docs/concepts/overview#route-advertisement) in the Cloud Router Overview.

CONSOLE GCLOUD

1. Go to the create Cloud Router page in the Google Cloud Console.
   GO TO THE ROUTERS PAGE (HTTPS://CONSOLE.CLOUD.GOOGLE.COM/HYBRID/ROUTERS/ADD)
2. Specify the Cloud Router's details.
   - **Name** — The name of the Cloud Router. This name is displayed in the console and used by the `gcloud` command-line tool to reference the Cloud Router. Example: `my-router`

- **VPC network** — The network that contains the instances that you want to reach. Example: `my-network`
- **Region** — The region where you want to locate the Cloud Router. The Cloud Router advertises all subnets in the region where it's located. Example: `asia-east1`
- **Google ASN** — The private ASN (https://tools.ietf.org/html/rfc6996) (64512 - 65534, 4200000000 - 4294967294) for the Cloud Router you are configuring. It can be any private ASN that you aren't already using as a peer ASN in the same region and network. Example: `65001`

3. To specify custom route advertisements, expand the **Advertised routes** section.
   a. For the **Routes**, select **Create custom routes**.
   b. Choose whether to advertise the subnets available to the Cloud Router. Enabling this option mimics the Cloud Router's default behavior.
   c. Select **Add custom route** to add an advertised route, and then configure it.
   Your new Cloud Router appears on the Cloud Router listing page. Select it to view its details and configure a BGP session.

What's next

- Establish BGP sessions (https://cloud.google.com/router/docs/how-to/configuring-bgp) between your Cloud Router and your on-premises router.

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