Advertising Custom IP Ranges

Update existing Cloud Routers or BGP sessions to advertise IP ranges that aren't part of any subnet, such as external (public) IP addresses.

See Creating Cloud Routers (https://cloud.google.com/router/docs/how-to/creating-routers) or Establishing BGP Sessions (https://cloud.google.com/router/docs/how-to/configuring-bgp) to specify advertisements when you create a Cloud Router or configure a BGP session.

To specify advertisements on an existing Cloud Router:

CONSOLE GCLOUD

1. Go to the Cloud Router page in the Google Cloud Console.
   CLOUD ROUTER LIST (HTTPS://CONSOLE.CLOUD.GOOGLE.COM/HYBRID/ROUTERS/LIST)
2. Select the Cloud Router to update.
3. In the Cloud Router's detail page, select **Edit**.
4. Expand the **Advertised routes** section.
5. For the **Routes**, select **Create custom routes**.
6. Select **Advertise all subnets visible to the Cloud Router** to continue advertising the subnets available to the Cloud Router. Enabling this option mimics the Cloud Router's default behavior.
7. Select **Add custom route** to add an advertised route.
8. Configure the route advertisement.
   - **Source** — Select **Custom IP range** to specify a custom IP range.
   - **IP address range** — Specify the custom IP range by using CIDR notation.

- **Description** — Add a description to help you identify the purpose of this route advertisement.

9. After you're done adding routes, select **Save**.

To specify advertisements on an existing BGP session:

CONSOLE GCLOUD

1. Go to the Cloud Router page in the Google Cloud Console.
   CLOUD ROUTER LIST (HTTPS://CONSOLE.CLOUD.GOOGLE.COM/HYBRID/ROUTERS/LIST)
2. Select the Cloud Router that contains the BGP session to update.
3. In the Cloud Router's detail page, select the BGP session to update.
4. In the BGP session details page, select **Edit**.
5. For the **Routes**, select **Create custom routes**.
6. Select **Advertise all subnets visible to the Cloud Router** to continue advertising the subnets available to the Cloud Router. Enabling this option mimics the Cloud Router's default behavior.
7. Select **Add custom route** to add an advertised route.
8. Configure the route advertisement.
   - **Source** — Select **Custom IP range** to specify a custom IP range.
   - **IP address range** — Specify the custom IP range by using CIDR notation.
   - **Description** — Add a description to help you identify the purpose of this route advertisement.
9. After you're done adding routes, select **Save**.

What's next

- To view the routes that Cloud Router is advertising, see Viewing Router Status and Advertised Routes (https://cloud.google.com/router/docs/how-to/viewing-router-details).
- To view the configuration of a Cloud Router and its BGP sessions, see Viewing Router Configuration (https://cloud.google.com/router/docs/how-to/viewing-configuration).
- To troubleshoot custom route advertisement issues, see Troubleshooting (https://cloud.google.com/router/docs/resources/troubleshooting).

Last updated December 4, 2019.