

[Cloud SQL](https://cloud.google.com/sql/) (<https://cloud.google.com/sql/>)

[Documentation](https://cloud.google.com/sql/docs/) (<https://cloud.google.com/sql/docs/>)

[PostgreSQL](https://cloud.google.com/sql/docs/postgres/) (<https://cloud.google.com/sql/docs/postgres/>) [Guides](#)

Configuring public IP connectivity

[MySQL](https://cloud.google.com/sql/docs/mysql/configure-ip) (<https://cloud.google.com/sql/docs/mysql/configure-ip>) | **PostgreSQL** | [SQL Server](https://cloud.google.com/sql/docs/sqlserver/configure-ip) (<https://cloud.google.com/sql/docs/sqlserver/configure-ip>)

This page describes how to configure public IP connectivity for a Cloud SQL instance.

Introduction

You can configure your Cloud SQL instance to have a public IPv4 address, and to accept connections from specific IP addresses or a range of addresses by adding authorized addresses to your instance.

For help with connecting an administration client to your instance over an IP connection, see [Connecting psql Client using IP addresses](https://cloud.google.com/sql/docs/postgres/connect-admin-ip) (<https://cloud.google.com/sql/docs/postgres/connect-admin-ip>).

If you configure your instance to accept connections via its public IP address, you should also configure it to use SSL to keep your data secure. For more information, see [Configure SSL for Instances](https://cloud.google.com/sql/docs/postgres/configure-ssl-instance) (<https://cloud.google.com/sql/docs/postgres/configure-ssl-instance>).

To configure your instance with an IP address that is not exposed to the public internet, see [Configuring Private IP Connectivity](https://cloud.google.com/sql/docs/postgres/configure-private-ip) (<https://cloud.google.com/sql/docs/postgres/configure-private-ip>).

Enabling public IP and adding an authorized address or address range

To enable public IP and add an authorized address:

When you enable public IP for your instance, it is configured with a public, static IPv4 address.

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1. Go to the Cloud SQL Instances page in the Google Cloud Console.

[GO TO THE CLOUD SQL INSTANCES PAGE \(HTTPS://CONSOLE.CLOUD.GOOGLE.COM/SQL/INSTANCES\)](https://console.cloud.google.com/sql/instances)

2. Click the instance name to open its **Instance details** page.
3. Select the **Connections** tab.
4. Select the **Public IP** checkbox.
5. Click **Add network**.
6. In the **Network** field, enter the IP address or address range you want to allow connections from.
Use [CIDR notation](https://en.wikipedia.org/wiki/Classless_Inter-Domain_Routing#CIDR_notation) (https://en.wikipedia.org/wiki/Classless_Inter-Domain_Routing#CIDR_notation).
7. Optionally, enter a name for this entry.
8. Click **Done**.
9. Click **Save** to update the instance.

Removing an authorized address or address range

To remove an authorized address:


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1. Go to the Cloud SQL Instances page in the Google Cloud Console.

[GO TO THE CLOUD SQL INSTANCES PAGE \(HTTPS://CONSOLE.CLOUD.GOOGLE.COM/SQL/INSTANCES\)](https://console.cloud.google.com/sql/instances)


2. Click the instance name to open its **Instance details** page.
3. Select the **Connections** tab.
4. Click the delete icon  for the address you want to delete.
5. Click **Save** to update the instance.

When you remove an authorized address, existing connections from that address are *not* disconnected. If you want to disconnect existing connections, [restart your instance](https://cloud.google.com/sql/docs/postgres/start-stop-restart-instance#restart) (<https://cloud.google.com/sql/docs/postgres/start-stop-restart-instance#restart>).

Configuring an instance to refuse all public IP connections

To configure an instance to refuse all public IP connections:

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1. Go to the Cloud SQL Instances page in the Google Cloud Console.
GO TO THE CLOUD SQL INSTANCES PAGE ([HTTPS://CONSOLE.CLOUD.GOOGLE.COM/SQL/INSTANCES](https://console.cloud.google.com/sql/instances))
2. Click the instance name to open its **Instance details** page.
3. Select the **Connections** tab.
4. Click the delete icon  for all authorized addresses.
5. Click **Save** to update the instance.

When you remove an authorized address, existing connections from that address are *not* disconnected. If you want to disconnect existing connections, [restart your instance](https://cloud.google.com/sql/docs/postgres/start-stop-restart-instance#restart) (<https://cloud.google.com/sql/docs/postgres/start-stop-restart-instance#restart>).

Disabling public IP

You can disable public IP, but only if your instance is also configured to use Private IP. To enable private IP, see [Configuring an existing instance to use private IP](https://cloud.google.com/sql/docs/postgres/configure-private-ip) (<https://cloud.google.com/sql/docs/postgres/configure-private-ip>).

Note: When you disable public IP for an instance, you release its IPv4 address. If you later re-enable public IP for this instance, it gets a different IPv4 address, and all applications that use the public IP address to connect to this instance must be modified.

To disable public IP:

CONSOLE G CLOUD REST

1. Go to the Cloud SQL Instances page in the Google Cloud Console.

[GO TO THE CLOUD SQL INSTANCES PAGE \(HTTPS://CONSOLE.CLOUD.GOOGLE.COM/SQL/INSTANCES\)](https://console.cloud.google.com/sql/instances)

2. Click the instance name to open its **Instance details** page.
3. Select the **Connections** tab.
4. Deselect the **Public IP** checkbox.
5. Click **Save** to update the instance.

What's next

- [Create and manage SSL keys for your instance](https://cloud.google.com/sql/docs/postgres/configure-ssl-instance)
(<https://cloud.google.com/sql/docs/postgres/configure-ssl-instance>).
- [Connect an administration client to your instance](https://cloud.google.com/sql/docs/postgres/connect-admin-ip)
(<https://cloud.google.com/sql/docs/postgres/connect-admin-ip>).
- [Connect to your instance from an external application](https://cloud.google.com/sql/docs/postgres/connect-external-app)
(<https://cloud.google.com/sql/docs/postgres/connect-external-app>).

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