

[Serverless Computing](https://cloud.google.com/products/serverless/) (https://cloud.google.com/products/serverless/)

[Cloud Run: Serverless Computing](https://cloud.google.com/run/) (https://cloud.google.com/run/)

[Documentation](https://cloud.google.com/run/docs/) (https://cloud.google.com/run/docs/) [Guides](#)

Authenticating developers

In addition to administrative actions such as creating, updating, and deleting services, developers often want to test services privately before releasing them.

Before you start

Make sure you grant permissions to access the services you are authenticating to. You must grant the Cloud Run Invoker role to the developer or group of developers:

CONSOLE UI GCLOUD

1. Go to the Google Cloud Console:
GO TO GOOGLE CLOUD CONSOLE (HTTPS://CONSOLE.CLOUD.GOOGLE.COM/RUN/)
2. Select the service.
3. Click **Show Info Panel** in the top right corner to show the **Permissions** tab.
4. Click **Add members**.
5. In the **Add members** field, enter the developer account email.
6. Select the **Cloud Run Invoker** role from the **Select a role** drop-down menu.
7. Click **Save**.

Authenticating

The easiest way to test services is to use a tool like `curl` and pass an auth token in the **Authorization** header:

```
curl -H "Authorization: Bearer $(gcloud auth print-identity-token)" SERVICE_URL
```

In order for the `curl` command to work, you must pass a valid identity token for a user with the `run.routes.invoke` permission, such as the *Cloud Run Admin* or *Cloud Run Invoker*. See [Cloud Run IAM Roles](https://cloud.google.com/run/docs/reference/iam/roles) (<https://cloud.google.com/run/docs/reference/iam/roles>) for the full list of roles and their associated permissions.

As shown in the example, in order to get a valid identity token, you can use `gcloud auth print-identity-token` (<https://cloud.google.com/sdk/gcloud/reference/auth/print-identity-token>).

For convenient reuse, you can create a [command-line alias](https://en.wikipedia.org/wiki/Alias_(command)) ([https://en.wikipedia.org/wiki/Alias_\(command\)](https://en.wikipedia.org/wiki/Alias_(command))) in your Linux or macOS shell profile:

```
alias gcurl='curl --header "Authorization: Bearer $(gcloud auth print-identity-token)
```

Use it to make requests to your services:

```
gcurl OPTIONAL_CURL_FLAGS SERVICE_URL
```

Except as otherwise noted, the content of this page is licensed under the [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/) (<https://creativecommons.org/licenses/by/4.0/>), and code samples are licensed under the [Apache 2.0 License](https://www.apache.org/licenses/LICENSE-2.0) (<https://www.apache.org/licenses/LICENSE-2.0>). For details, see our [Site Policies](https://developers.google.com/terms/site-policies) (<https://developers.google.com/terms/site-policies>). Java is a registered trademark of Oracle and/or its affiliates.

Last updated December 4, 2019.