

Create and start a Compute Engine instance

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When you use the Google Cloud console to access Google Cloud services and APIs, you don't need to set up authentication.

1. [Install](#) the Google Cloud CLI. After installation, [initialize](#) the Google Cloud CLI by running the following command:

```
gcloud init
```

If you're using an external identity provider (IdP), you must first [sign in to the gcloud CLI with your federated identity](#).

2. [Set a default region and zone](#).

To use the Terraform samples on this page in a local development environment, install and initialize the gcloud CLI, and then set up Application Default Credentials with your user credentials.

1. [Install](#) the Google Cloud CLI.
2. If you're using an external identity provider (IdP), you must first [sign in to the gcloud CLI with your federated identity](#).
3. If you're using a local shell, then create local authentication credentials for your user account:

```
gcloud auth application-default login
```

You don't need to do this if you're using Cloud Shell.

If an authentication error is returned, and you are using an external identity provider (IdP), confirm that you have [signed in to the gcloud CLI with your federated identity](#).

For more information, see [Set up authentication for a local development environment](#).

To use the .NET samples on this page in a local development environment, install and initialize the gcloud CLI, and then set up Application Default Credentials with your user credentials.

1. [Install](#) the Google Cloud CLI.
2. If you're using an external identity provider (IdP), you must first [sign in to the gcloud CLI with your federated identity](#).
3. If you're using a local shell, then create local authentication credentials for your user account:

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You don't need to do this if you're using Cloud Shell.

If an authentication error is returned, and you are using an external identity provider (IdP), confirm that you have [signed in to the gcloud CLI with your federated identity](#).

For more information, see [Set up authentication for a local development environment](#).

To use the Go samples on this page in a local development environment, install and initialize the gcloud CLI, and then set up Application Default Credentials with your user credentials.

1. [Install](#) the Google Cloud CLI.
2. If you're using an external identity provider (IdP), you must first [sign in to the gcloud CLI with your federated identity](#).
3. If you're using a local shell, then create local authentication credentials for your user account:

```
gcloud auth application-default login
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You don't need to do this if you're using Cloud Shell.

If an authentication error is returned, and you are using an external identity provider (IdP), confirm that you have [signed in to the gcloud CLI with your federated identity](#).

For more information, see [Set up authentication for a local development environment](#).

To use the Java samples on this page in a local development environment, install and initialize the gcloud CLI, and then set up Application Default Credentials with your user credentials.

1. [Install](#) the Google Cloud CLI.
2. If you're using an external identity provider (IdP), you must first [sign in to the gcloud CLI with your federated identity](#).
3. If you're using a local shell, then create local authentication credentials for your user account:

```
gcloud auth application-default login
```

You don't need to do this if you're using Cloud Shell.

If an authentication error is returned, and you are using an external identity provider (IdP), confirm that you have [signed in to the gcloud CLI with your federated identity](#).

For more information, see [Set up authentication for a local development environment](#).

To use the Node.js samples on this page in a local development environment, install and initialize the gcloud CLI, and then set up Application Default Credentials with your user credentials.

1. [Install](#) the Google Cloud CLI.
2. If you're using an external identity provider (IdP), you must first [sign in to the gcloud CLI with your federated identity](#).
3. If you're using a local shell, then create local authentication credentials for your user account:

```
gcloud auth application-default login
```

You don't need to do this if you're using Cloud Shell.

If an authentication error is returned, and you are using an external identity provider (IdP), confirm that you have [signed in to the gcloud CLI with your federated identity](#).

For more information, see [Set up authentication for a local development environment](#).

To use the PHP samples on this page in a local development environment, install and initialize the gcloud CLI, and then set up Application Default Credentials with your user credentials.

1. [Install](#) the Google Cloud CLI.
2. If you're using an external identity provider (IdP), you must first [sign in to the gcloud CLI with your federated identity](#).
3. If you're using a local shell, then create local authentication credentials for your user account:

```
gcloud auth application-default login
```

You don't need to do this if you're using Cloud Shell.

If an authentication error is returned, and you are using an external identity provider (IdP), confirm that you have [signed in to the gcloud CLI with your federated identity](#).

For more information, see [Set up authentication for a local development environment](#).

To use the Python samples on this page in a local development environment, install and initialize the gcloud CLI, and then set up Application Default Credentials with your user credentials.

1. [Install](#) the Google Cloud CLI.
2. If you're using an external identity provider (IdP), you must first [sign in to the gcloud CLI with your federated identity](#).
3. If you're using a local shell, then create local authentication credentials for your user account:

```
gcloud auth application-default login
```

You don't need to do this if you're using Cloud Shell.

If an authentication error is returned, and you are using an external identity provider (IdP), confirm that you have [signed in to the gcloud CLI with your federated identity](#).

For more information, see [Set up authentication for a local development environment](#).

To use the Ruby samples on this page in a local development environment, install and initialize the gcloud CLI, and then set up Application Default Credentials with your user credentials.

1. [Install](#) the Google Cloud CLI.
2. If you're using an external identity provider (IdP), you must first [sign in to the gcloud CLI with your federated identity](#).
3. If you're using a local shell, then create local authentication credentials for your user account:

```
gcloud auth application-default login
```

You don't need to do this if you're using Cloud Shell.

If an authentication error is returned, and you are using an external identity provider (IdP), confirm that you have [signed in to the gcloud CLI with your federated identity](#).

For more information, see [Set up authentication for a local development environment](#).

To use the REST API samples on this page in a local development environment, you use the credentials you provide to the gcloud CLI.

[Install](#) the Google Cloud CLI.

If you're using an external identity provider (IdP), you must first [sign in to the gcloud CLI with your federated identity](#).

For more information, see [Authenticate for using REST](#) in the Google Cloud authentication documentation.

Source: https://cloud.google.com/compute/docs/instances/create-start-instance#api_2