

# Installation and Setup

This tutorial goes through Deployment Manager using the `gcloud` command-line tool. Follow the setup steps to prepare your local environment to use Deployment Manager.

## Create a project

Deployment Manager requires a Google Cloud project. If you already have a project, you can use your existing project.

If you are new to Google Cloud, you can create a new project and take advantage of [Google Cloud's free trial](#) (/free-trial) package, which gives you \$300 to spend on all Google Cloud products over 12 months. To sign up for the free trial:

1. Open the [Cloud Console](https://console.cloud.google.com/freetrial) (<https://console.cloud.google.com/freetrial>).
2. Follow the instructions to sign up for the free trial.
3. When prompted to create a project, enter a name and a project ID that will be used to identify your project, or accept the defaults, and click **Create**.

★ **Important:** The name you use must be between 4 and 30 characters. When you type the name, the form will suggest a project ID, which you can edit. The project ID you use must be between 6 and 30 characters, with a lowercase letter as the first character. You can use a dash, lowercase letter, or digit for the remaining characters, but the last character cannot be a dash. You should be aware that some resource identifiers (such as project IDs) might be retained beyond the life of your project. For this reason, avoid storing sensitive information in resource identifiers.

[...see naming guidelines](#)

## Enable the APIs for the Google Cloud resources that you want manage

Deployment Manager uses the APIs of other Google Cloud services to create and manage your resources. To create these resources, you must first enable the services' APIs for your project.

For this walkthrough, you deploy Compute Engine resources, so you need to enable the Compute Engine API.

[Enable the Compute Engine API](https://console.cloud.google.com/start/api?id=compute_component) (https://console.cloud.google.com/start/api?id=compute\_component)

Next, enable Deployment Manager:

[Enable the Deployment Manager API](https://console.cloud.google.com/start/api?id=deploymentmanager) (https://console.cloud.google.com/start/api?id=deploymentmanager)

## Install Cloud SDK

The Cloud SDK offers a command-line tool, `gcloud`, that makes interacting with Deployment Manager easy.

To install Cloud SDK:

1. [Download and authenticate gcloud](https://cloud.google.com/sdk/#Quick_Start) (https://cloud.google.com/sdk/#Quick\_Start).

Alternatively, use [Cloud Shell](https://console.cloud.google.com?cloudshell=true) (https://console.cloud.google.com?cloudshell=true), which comes with `gcloud` already installed.

2. Set your project ID.

Every command requires a project ID. Set a default project ID so you do not need to provide it every time. **Remember to replace `myproject` with your own project ID.**

```
gcloud config set project myproject
```

3. Set your default zone and region. Some Google Cloud resources require a zone or a region and you can set a default zone or region, similar to a default project. To set a default zone or region, use `gcloud config set`. In this case, use `us-central1` as the region and `us-central1-f` as the zone:

```
gcloud config set compute/region us-central1
gcloud config set compute/zone us-central1-f
```

## Clone the Deployment Manager GitHub repository

The Deployment Manager GitHub repository contains samples created by Google and the Deployment Manager community, including the samples used in this walkthrough.

```
clone https://github.com/GoogleCloudPlatform/deploymentmanager-samples
```

```
in the samples folder
```

```
deploymentmanager-samples/examples/v2/step_by_step_guide
```

Now that you have set up your environment, you can start creating your deployment.

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(/deployment-manager/docs/step-by-step-guide/create-a-configuration)

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