

# Quickstart

This page shows how to enable Cloud Tools for PowerShell, authenticate with the Cloud SDK, and run PowerShell cmdlets.

## Before you begin

Complete the following steps:

1. Sign in (<https://accounts.google.com/Login>) to your Google Account.

If you don't already have one, sign up for a new account (<https://accounts.google.com/SignUp>).

2. In the Cloud Console, on the project selector page, select or create a Cloud project.

★ **Note:** If you don't plan to keep the resources that you create in this procedure, create a project instead of selecting an existing project. After you finish these steps, you can delete the project, removing all resources associated with the project.

Go to the project selector page (<https://console.cloud.google.com/projectselector2/home/dashboard>)

3. Make sure that billing is enabled for your Google Cloud project. Learn how to confirm billing is enabled for your project (</billing/docs/how-to/modify-project>).
4. Install the Cloud SDK from the PowerShell command line by running the following command as an administrator:

```
Install-Module GoogleCloud
```

## Authenticate with Cloud SDK

Cloud Tools for PowerShell uses your credentials and settings stored in the Cloud SDK to enable the cmdlets. To use the cmdlets, first use the SDK:

1. At the command prompt, run the following:

```
gcloud init
```

2. Accept the option to log in using your Google user account:

```
To continue, you must log in. Would you like to log in (Y/n)? Y
```

3. In your browser, log in to your Google user account when prompted and click **Allow** to grant permission to access Google Cloud resources.

4. At the command prompt, select a Cloud Platform project in which you have Owner, Editor or Viewer permissions:

```
Pick a cloud project to use:  
[1] [my-project-1]  
[2] [my-project-2]  
...  
Please enter your numeric choice:
```

## Run PowerShell cmdlets

After authenticating, you can start using Cloud Tools for PowerShell. Open a PowerShell window and try running the following commands.

Get all buckets for the current project, for a specific project, or a specific bucket:

```
Get-ProjectBuckets = Get-GcsBucket  
Get-ProjectBuckets = Get-GcsBucket -Project my-project-1  
Get-Bucket = Get-GcsBucket -Name my-bucket-name
```

List all Compute Engine instances associated with a project:

```
Get-ComputeInstance -Project my-project-1 |  
Format-Table Status |
```

```
format-Table Name, Status -GroupBy Status
```

```
status: RUNNING
```

```
    Status
```

```
    -----
```

```
-2 RUNNING
```

```
-3 RUNNING
```

```
status: TERMINATED
```

```
    Status
```

```
    -----
```

```
-1 TERMINATED
```

## Navigate Cloud Storage with PowerShell provider

Cloud Tools for PowerShell includes a PowerShell provider for Cloud Storage. This provider allows you to use commands like `cd`, `dir`, `copy` and `del` to navigate and manipulate your data in Cloud Storage as if the data were on a local file system.

To directly use the provider, you can start Cloud Tools for PowerShell using the shortcut from the start menu. This will launch a PowerShell console with the provider loaded:

```
avigate to Cloud Storage
```

```
:\
```

```
w the available buckets
```

```
ate a new bucket
```

```
my-new-bucket
```

You can also make the Cloud Storage provider available in any PowerShell session by importing the Cloud Tools for PowerShell module via `Import-Module GoogleCloud`.

## What's next

You can learn more about specific cmdlets by referring to the Cloud Tools for PowerShell [cmdlet reference](https://googlecloudplatform.github.io/google-cloud-powershell/) (https://googlecloudplatform.github.io/google-cloud-powershell/), or by using the built-in help system from within PowerShell:

```
elp New-GcsBucket
```

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