

Google Cloud SDK Exercises

Exercise 1: Setting Up Google Cloud SDK

1. What command did you use to authenticate with your Google account?

- The command used was `gcloud init`, which includes the authentication process as part of the setup.

2. How did you set the default project?

- You can set the default project using the command `gcloud config set project PROJECT_ID`, where `PROJECT_ID` is the ID of the project you want to configure.

3. What information does the `gcloud info` command provide?

- The `gcloud info` command provides information about the current SDK configuration, including project ID, compute region/zone, and installation details, such as the version of the SDK and the active configurations.

Exercise 2: Exploring Cloud Shell

1. What is the default home directory in Cloud Shell?

- The default home directory in Cloud Shell is `/home/<username>`.

2. What tools are pre-installed in Cloud Shell?

- Cloud Shell comes with pre-installed tools such as `gcloud`, `kubectl`, `git`, `gsutil`, and various Linux utilities like `vim`, `nano`, and `python`.

3. How can you open the built-in code editor in Cloud Shell?

- You can open the built-in code editor by clicking on the pencil icon or by running the command

code . in the terminal.

Exercise 3: Managing Projects with Google Cloud SDK

1. How do you list all projects associated with your account?

- You can list all projects using the command `gcloud projects list`.

2. What command is used to set a default project?

- The command to set a default project is `gcloud config set project PROJECT_ID`.

3. How do you describe project metadata?

- To describe project metadata, you can use the command `gcloud projects describe PROJECT_ID`.

Exercise 4: Using Cloud Shell for Basic Operations

1. What command did you use to create the directory structure?

- The command `mkdir -p myproject/src myproject/tests myproject/docs` was used to create the directory structure.

2. How did you upload a file to a Cloud Storage bucket?

- You can upload a file to a Cloud Storage bucket using the command `gsutil cp filename gs://your-bucket-name/`.

3. How can you list the contents of a Cloud Storage bucket?

- You can list the contents of a Cloud Storage bucket with the command `gsutil ls gs://your-bucket-name/`.

Exercise 5: Automating Tasks with Shell Scripts in Cloud Shell

1. What command did you use to make the script executable?

- The command `chmod +x setup.sh` was used to make the script executable.

2. How did you ensure the script was executed correctly?

- The script was executed using `./setup.sh`, and the expected output was verified through log messages and the existence of created files and directories.

3. What steps did your script automate?

- The script automated the creation of a directory, the creation of a simple text file, and setting the default Google Cloud project configuration.