

## Cloud Application Development

### Assignment 1 report

Objective: Configuring Google Cloud environment, understanding basic directory and file management in Cloud Shell, writing basic shell script.

Exercise 1.

Questions:

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

After running `gcloud init`, a new chrome tab opens where the user can log in. Alternatively, the `gcloud auth login` command can be used.

**How did you set the default project?**

After signing in, cloud shell offers user to create first project.

**What information does the `gcloud info` command provide?**

Google Cloud SDK version, installed components, system information, configuration information, logs and paths.

Exercise 2.

Questions:

**What is the default home directory in Cloud Shell?**

By default, the home directory is `$HOME(/home/<username>)`

**What tools are pre-installed in Cloud Shell?**

Google Cloud SDK, Programming languages, git, text editors, build and package tools, additional tools (Docker, iPython, MySQL client, gRPC compiler, TensorFlow, Terraform).

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

By running `code .` command in the shell.

Exercise 3.

**How do you list all projects associated with your account?**

By running `gcloud projects list` command.

**What command is used to set a default project?**

```
gcloud config set project PROJECT_ID
```

### **How do you describe project metadata?**

By running `gcloud projects describe PROJECT_ID` command. After running this command, information about project (projectId, projectNumber, name, lifecycleState, createTime) will be displayed.

Exercise 4.

### **What command did you use to create the directory structure?**

```
mkdir -p myfirstproject/src myfirstproject/test myfirstproject/docs
```

### **How did you upload a file to a Cloud Storage bucket?**

By running `gsutil cp main.py gs://bucket_name`

### **How can you list the contents of a Cloud Storage bucket?**

```
gsutil ls gs://bucket_name
```

Exercise 5.

### **What command did you use to make the script executable?**

```
chmod +x setup.sh
```

### **How did you ensure the script was executed correctly?**

Listed directories in the current path: `ls`

### **What steps did your script automate?**

- 1.Create the new project directory
- 2.Create the new info.txt file
- 3.Set the default Google Cloud project

```
//setup.sh
```

```
mkdir -p new_project
```

```
cd new_project
```

```
touch info.txt
```

```
gcloud config set project PROJECT_ID
```