



Google Certified

Associate Cloud Engineer

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Lesson Plan

2. Account Setup

- 2.1. Signup Free-Tier Account
- 2.2. Explore GCP Console
- 2.3. Set Up Billing Export
- 2.4. Set Up Budgets & alerts
- 2.5. Cloud Shell

2.1 Signup Free-Tier Account *

- A 12-month free trial with \$300 credit to use with any GCP services.
- Always Free, which provides limited access to many common GCP resources, free of charge

Lab:

1. Create [Free Tier Account](#)
2. View [restriction and limitation](#)
3. View “[Always Free](#)” resources
4. Access resources with [least privilege](#)

2.2 Explore GCP Console *

- Enabling the Cloud Storage API for a project.
- Creating and deleting buckets
- Uploading, downloading, and deleting objects
- Managing Identity and Access Management (IAM) policies

Lab:

1. Go to [console](#)
2. View all buttons and navigation menu
3. Navigation > Billing
4. Rename Billing account
5. Billing > Manage billing accounts
6. Navigation > Home > Customize
7. Home > Activity tab
8. Project Settings > change name
9. Settings > Top Right dotted button

2.3 Set Up Billing Export

- Export Billing Data to BigQuery
- Tools for monitoring, analyzing, and optimizing cost have become an important part of managing development
- enables you to export daily usage and cost estimates automatically throughout the day to a BigQuery dataset you specify

1. Go to the Google Cloud Platform [Console](#).
2. Navigation > Billing
3. Manage billing accounts
4. Billing export
5. Select the BigQuery export tab
6. Click Edit settings to enable export
7. Select the project where your BigQuery dataset is stored.
8. Create new dataset
9. Save

2.4 Budgets & Alerts

- Avoid surprises on your bill by creating budgets to monitor all your Google Cloud Platform.
- Trigger alert notifications to be sent to billing administrators and billing account users after costs exceed a percent of the budget or a specified amount

1. Go to the Google Cloud Platform [Console](#).
2. Navigation > Billing > Budgets & Alerts
3. Fill information and create budget

2.4 Create Service Account

- Avoid surprises on your bill by creating budgets to monitor all your Google Cloud Platform.
- Trigger alert notifications to be sent to billing administrators and billing account users after costs exceed a percent of the budget or a specified amount

1. Go to the Google Cloud Platform [Console](#).
2. Navigation > Billing > Budgets & Alerts
3. Fill information and create budget

2.5 Cloud Shell

- Google Cloud Shell provides you with command-line access to your cloud resources directly from your browser.
- Can easily manage your projects and resources without having to install the Google Cloud SDK
- Always available, up to date and fully authenticated.
- Cloud Shell provisions 5GB of persistent disk storage mounted.

1. Go to the Google Cloud Platform [Console](#).
2. On top bar > shell icon
3. Activate cloud shell
4. Dotted button > Boost Cloud Shell
5. `# clear`
6. `# ls -l`
7. `# dl README-cloudshell.txt`
8. Create index.html
9. Edit in cloud shell editor
10. Web preview
11. Change port