

1. Setup the gcloud sdk and provide the commands to check which of the gcloud components are installed. Install the components [gsutil, kubectl, bq, gcloud Alpha commands, gcloud beta commands] if not already installed.

```

Activities  Terminal  Wed 15:16
austin@Quantiphi-745: ~

File Edit View Search Terminal Help
The latest available version is: 251.0.0

Components


| Status        | Name                                                 | ID                       | Size      |
|---------------|------------------------------------------------------|--------------------------|-----------|
| Not Installed | App Engine Go Extensions                             | app-engine-go            | 56.6 MiB  |
| Not Installed | Cloud Bigtable Command Line Tool                     | cbt                      | 6.4 MiB   |
| Not Installed | Cloud Bigtable Emulator                              | bigtable                 | 6.6 MiB   |
| Not Installed | Cloud Datalab Command Line Tool                      | datalab                  | < 1 MiB   |
| Not Installed | Cloud Datastore Emulator                             | cloud-datastore-emulator | 18.4 MiB  |
| Not Installed | Cloud Datastore Emulator (Legacy)                    | gcd-emulator             | 38.1 MiB  |
| Not Installed | Cloud Firestore Emulator                             | cloud-firestore-emulator | 40.8 MiB  |
| Not Installed | Cloud Pub/Sub Emulator                               | pubsub-emulator          | 34.8 MiB  |
| Not Installed | Cloud SQL Proxy                                      | cloud_sql_proxy          | 3.8 MiB   |
| Not Installed | Emulator Reverse Proxy                               | emulator-reverse-proxy   | 14.5 MiB  |
| Not Installed | Google Cloud Build Local Builder                     | cloud-build-local        | 6.0 MiB   |
| Not Installed | Google Container Registry's Docker credential helper | docker-credential-gcr    | 1.8 MiB   |
| Not Installed | gcloud app Java Extensions                           | app-engine-java          | 103.3 MiB |
| Not Installed | gcloud app PHP Extensions                            | app-engine-php           |           |
| Not Installed | gcloud app Python Extensions                         | app-engine-python        | 6.0 MiB   |
| Not Installed | gcloud app Python Extensions (Extra Libraries)       | app-engine-python-extras | 28.5 MiB  |
| Installed     | BigQuery Command Line Tool                           | bq                       | < 1 MiB   |
| Installed     | Cloud SDK Core Libraries                             | core                     | 10.8 MiB  |
| Installed     | Cloud Storage Command Line Tool                      | gsutil                   | 3.8 MiB   |
| Installed     | gcloud Alpha Commands                                | alpha                    | < 1 MiB   |
| Installed     | gcloud Beta Commands                                 | beta                     | < 1 MiB   |
| Installed     | kubectl                                              | kubectl                  | < 1 MiB   |



To install or remove components at your current SDK version [251.0.0], run:
$ gcloud components install COMPONENT_ID
$ gcloud components remove COMPONENT_ID

To update your SDK installation to the latest version [251.0.0], run:
$ gcloud components update

austin@Quantiphi-745:~$

```

```

Activities  Terminal  Wed 15:20
austin@Quantiphi-745: ~

File Edit View Search Terminal Help
austin@Quantiphi-745:~$ gsutil
Usage: gsutil [-D] [-DD] [-h header]... [-m] [-o] [-q] [command [opts...] args...]
Available commands:
acl                Get, set, or change bucket and/or object ACLs
bucketpolicyonly   Configure Bucket Policy Only
cat                Concatenate object content to stdout
compose            Concatenate a sequence of objects into a new composite object.
config             Obtain credentials and create configuration file
cors               Get or set a CORS JSON document for one or more buckets
cp                Copy files and objects
defacl             Get, set, or change default ACL on buckets
defstorageclass    Get or set the default storage class on buckets
du                Display object size usage
hash              calculate file hashes
help              Get help about commands and topics
iam               Get, set, or change bucket and/or object IAM permissions.
kms               Configure Cloud KMS encryption
label             Get, set, or change the label configuration of a bucket.
lifecycle          Get or set lifecycle configuration for a bucket
logging            Configure or retrieve logging on buckets
ls                List providers, buckets, or objects
mb                Make buckets
mv                Move/rename objects and/or subdirectories
notification       Configure object change notification
perfdiag           Run performance diagnostic
rb                Remove buckets
requester Pays     Enable or disable requester pays for one or more buckets
retention          Provides utilities to interact with Retention Policy feature.
rewrite            Rewrite objects
rm                Remove objects
rsync              Synchronize content of two buckets/directories
setmeta            Set metadata on already uploaded objects
signurl            Create a signed url
stat              Display object status
test              Run gsutil unit/integration tests (for developers)
update            Update to the latest gsutil release
version           Print version info about gsutil
versioning         Enable or suspend versioning for one or more buckets

```