

```
Activities Terminal Wed 15:48
vishal@Quantiphi-747: ~
File Edit View Search Terminal Help

vishal@Quantiphi-747:~$ pip3 install --upgrade google-api-python-client
Collecting google-api-python-client
  Downloading https://files.pythonhosted.org/packages/3f/f1/20fd18744c3d20307d634ffcc02592bc7efc45a59624e14655cf21cbfb5e/google_api_python_client-1.7.9-py3-none-any.whl (56kB)
    100% |#####| 61kB 2.8MB/s
Collecting six<2dev,>=1.6.1 (from google-api-python-client)
  Downloading https://files.pythonhosted.org/packages/73/fb/00a976f728d0d1fecfe898238ce23f502a721c0ac0ecfedb80e0d88c64e9/six-1.12.0-py2.py3-none-any.whl
Collecting httplib2<1dev,>=0.9.2 (from google-api-python-client)
  Downloading https://files.pythonhosted.org/packages/a8/12/213dee680d0e7d5689e3ef20c857f72932964c9d369ec50fbc39906fc757/httplib2-0.13.0-py3-none-any.whl (94kB)
    100% |#####| 102kB 4.1MB/s
Collecting uritemplate<4dev,>=3.0.0 (from google-api-python-client)
  Downloading https://files.pythonhosted.org/packages/e5/7d/9d5a640c4f8bf2c8b1af015e9a9d8de32e13c9016dcc4b0ec03481fb396/uritemplate-3.0.0-py2.py3-none-any.whl
Collecting google-auth>=1.4.1 (from google-api-python-client)
  Downloading https://files.pythonhosted.org/packages/c5/9b/ed0516cc1f7609fb0217e3057ff4f0f9f3e3ce79a369c6af4a6c5ca25664/google_auth-1.6.3-py2.py3-none-any.whl (73kB)
    100% |#####| 81kB 6.0MB/s
Collecting google-auth-httpplib2>=0.0.3 (from google-api-python-client)
  Downloading https://files.pythonhosted.org/packages/33/49/c814d6d438b823441552198f096fcd0377fd6c88714dbed34f1d3c8c4389/google_auth_httplib2-0.0.3-py2.py3-none-any.whl
Collecting pyasn1-modules>=0.2.1 (from google-auth>=1.4.1->google-api-python-client)
  Downloading https://files.pythonhosted.org/packages/91/f0/b03e00ce9fddf4827c42df1c3ce10c74eadebfb706231e8d6d1c356a4062/pyasn1_modules-0.2.5-py2.py3-none-any.whl (74kB)
    100% |#####| 81kB 5.5MB/s
Collecting rsa>=3.1.4 (from google-auth>=1.4.1->google-api-python-client)
  Downloading https://files.pythonhosted.org/packages/02/e5/38518af393f7c214357079ce67a317307936896e961e35450b70fad2a9cf/rsa-4.0-py2.py3-none-any.whl
Collecting cachetools>=2.0.0 (from google-auth>=1.4.1->google-api-python-client)
  Downloading https://files.pythonhosted.org/packages/2f/a6/30b0a0bef12283e83e58c1d6e7b5aabc7acfc4110df81a4471655d33e704/cachetools-3.1.1-py2.py3-none-any.whl
Collecting pyasn1<0.5.0,>=0.4.1 (from pyasn1-modules>=0.2.1->google-auth>=1.4.1->google-api-python-client)
  Downloading https://files.pythonhosted.org/packages/7b/7c/c9386b82a25115cccf1903441bba3cbadcfae7b678a20167347fa8ded34c/pyasn1-0.4.5-py2.py3-none-any.whl (73kB)
    100% |#####| 81kB 5.1MB/s
Installing collected packages: six, httplib2, uritemplate, pyasn1, pyasn1-modules, rsa, cachetools, google-auth, google-auth-httpplib2, google-
```

```
Activities Terminal Wed 15:52
vishal@Quantiphi-747: ~
File Edit View Search Terminal Help

Settings from your current configuration [abc] are:
core:
  disable_usage_reporting: 'False'

Pick configuration to use:
[1] Re-initialize this configuration [abc] with new settings
[2] Create a new configuration
[3] Switch to and re-initialize existing configuration: [default]
Please enter your numeric choice: ^C

Command killed by keyboard interrupt

vishal@Quantiphi-747:~$ clear

vishal@Quantiphi-747:~$ python -V
Python 2.7.15+

vishal@Quantiphi-747:~$ curl -O https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-sdk-251.0.0-linux-x86_64.tar.gz
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 26.2M 100 26.2M 0 0 9371k 0 0:00:02 0:00:02 --:--:-- 9367k
vishal@Quantiphi-747:~$
```

```
Activities Terminal Wed 15:55
vishal@Quantiphi-747: ~
File Edit View Search Terminal Help
vishal@Quantiphi-747:~$ tar zxvf google-cloud-sdk
google-cloud-sdk/
vishal@Quantiphi-747:~$ tar zxvf google-cloud-sdk-251.0.0-linux-x86_64.tar.gz google cloud sdk
tar: google: Not found in archive
tar: cloud: Not found in archive
tar: sdk: Not found in archive
tar: Exiting with failure status due to previous errors
vishal@Quantiphi-747:~$ ls
Desktop      examples.desktop      google-cloud-sdk-251.0.0-linux-x86_64.tar.gz  Public      Vishal-1
Documents    google-cloud-sdk       Music                                           Templates
Downloads    google-cloud-sdk-250.0.0-linux-x86_64.tar.gz  Pictures                                       Videos
vishal@Quantiphi-747:~$ tar zxvf google-cloud-sdk-251.0.0-linux-x86_64.tar.gz google-cloud-sdk
google-cloud-sdk/
google-cloud-sdk/properties
google-cloud-sdk/README
google-cloud-sdk/LICENSE
google-cloud-sdk/RELEASE_NOTES
google-cloud-sdk/install.sh
google-cloud-sdk/deb/
google-cloud-sdk/deb/mapping/
google-cloud-sdk/deb/mapping/component_mapping.yaml
google-cloud-sdk/deb/mapping/command_mapping.yaml
google-cloud-sdk/rpm/
google-cloud-sdk/rpm/mapping/
google-cloud-sdk/rpm/mapping/component_mapping.yaml
google-cloud-sdk/rpm/mapping/command_mapping.yaml
google-cloud-sdk/install.bat
google-cloud-sdk/completion.bash.inc
google-cloud-sdk/completion.zsh.inc
google-cloud-sdk/path.bash.inc
google-cloud-sdk/path.fish.inc
google-cloud-sdk/path.zsh.inc
google-cloud-sdk/VERSION
google-cloud-sdk/platform/
google-cloud-sdk/platform/gsuite/
google-cloud-sdk/platform/gsuite/third_party/
google-cloud-sdk/platform/gsuite/third_party/apitools/
google-cloud-sdk/platform/gsuite/third_party/apitools/apitools/
```

```
Activities Terminal Wed 15:56
vishal@Quantiphi-747: ~
File Edit View Search Terminal Help
vishal@Quantiphi-747:~$ ./google-cloud-sdk/install.sh
Welcome to the Google Cloud SDK!

To help improve the quality of this product, we collect anonymized usage data
and anonymized stacktraces when crashes are encountered; additional information
is available at <https://cloud.google.com/sdk/usage-statistics>. You may choose
to opt out of this collection now (by choosing 'N' at the below prompt), or at
any time in the future by running the following command:

    gcloud config set disable_usage_reporting true

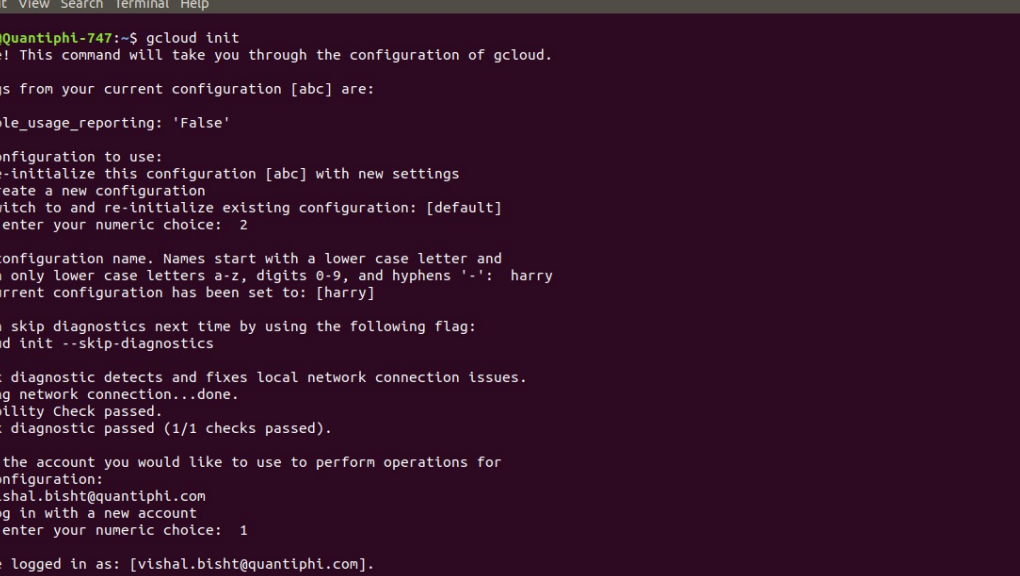
Do you want to help improve the Google Cloud SDK (Y/n)? Y

Your current Cloud SDK version is: 251.0.0
The latest available version is: 251.0.0

Components

Status Name
```

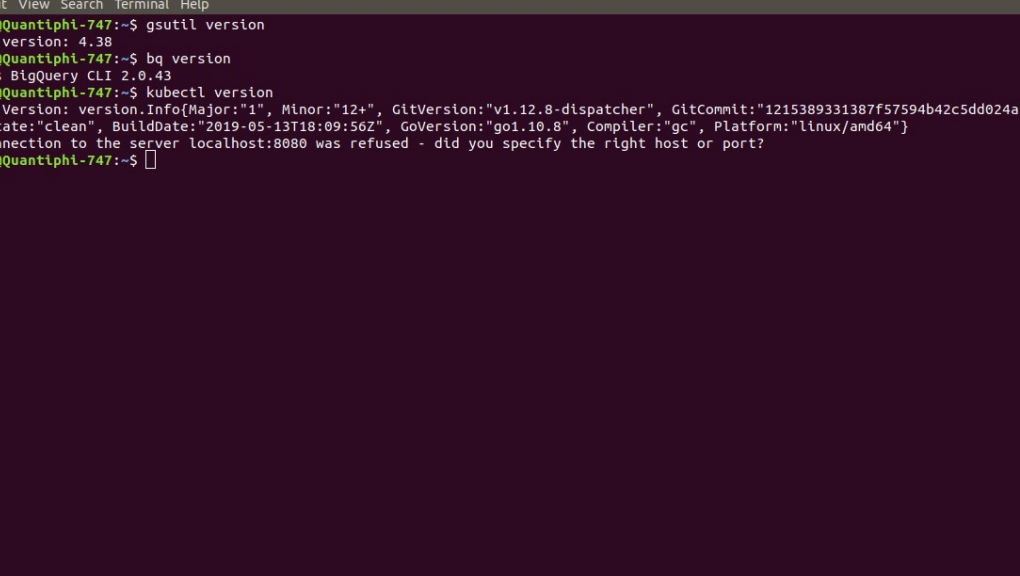
```
Activities Terminal Wed 15:57 vishal@Quantiphi-747: ~  
File Edit View Search Terminal Help  
"@type": "type.googleapis.com/google.rpc.BadRequest",  
"fieldViolations": [  
  {  
    "field": "project_id",  
    "description": "project_id must be at least 6 characters long"  
  },  
  {  
    "field": "project_id",  
    "description": "project_id contains invalid characters"  
  },  
  {  
    "field": "display_name",  
    "description": "project display name must be at least 4 characters"  
  }  
],  
},  
{"@type": "type.googleapis.com/google.rpc.Help",  
"links": [  
  {  
    "url": "https://cloud.google.com/resource-manager/reference/rest/v1/projects"  
  }  
]  
}  
}  
}  
}  
}>  
>  
Please make sure to create the project [12] using  
$ gcloud projects create 12  
or change to another project using  
$ gcloud config set project <PROJECT ID>  
vishal@Quantiphi-747:~$ gcloud config configurations list  
NAME      IS_ACTIVE ACCOUNT                PROJECT     DEFAULT_ZONE  DEFAULT_REGION  
abc       False   vishal.bisht@quantiphi.com pe-training us-east1-b   us-east1  
default   False   vishal.bisht@quantiphi.com                 us-east1-b   us-east1  
harry     True    vishal.bisht@quantiphi.com                 us-east1-b   us-east1  
vishal@Quantiphi-747:~$
```



```
Activities  ▾  Terminal  ▾  Wed 15:57  vishal@Quantiphi-747: ~  
File Edit View Search Terminal Help  
vishal@Quantiphi-747:~$ gcloud init  
Welcome! This command will take you through the configuration of gcloud.  
  
Settings from your current configuration [abc] are:  
core:  
  disable_usage_reporting: 'False'  
  
Pick configuration to use:  
[1] Re-initialize this configuration [abc] with new settings  
[2] Create a new configuration  
[3] Switch to and re-initialize existing configuration: [default]  
Please enter your numeric choice: 2  
  
Enter configuration name. Names start with a lower case letter and  
contain only lower case letters a-z, digits 0-9, and hyphens '-': harry  
Your current configuration has been set to: [harry]  
  
You can skip diagnostics next time by using the following flag:  
  gcloud init --skip-diagnostics  
  
Network diagnostic detects and fixes local network connection issues.  
Checking network connection...done.  
Reachability Check passed.  
Network diagnostic passed (1/1 checks passed).  
  
Choose the account you would like to use to perform operations for  
this configuration:  
[1] vishal.bisht@quantiphi.com  
[2] Log in with a new account  
Please enter your numeric choice: 1  
  
You are logged in as: [vishal.bisht@quantiphi.com].  
  
Pick cloud project to use:  
[1] pe-training  
[2] Create a new project  
Please enter numeric choice or text value (must exactly match list
```

The image shows a Linux terminal window with a dark background. The title bar at the top indicates the window is titled "Activities" and "Terminal", with the system time "Wed 11:58" and various status icons on the right. The terminal content is as follows:

```
vishal@Quantiphi-747: ~  
File Edit View Search Terminal Help  
{  
  "field": "project_id",  
  "description": "project_id contains invalid characters"  
},  
{  
  "field": "display_name",  
  "description": "project display name must be at least 4 characters"  
}  
},  
{  
  "@type": "type.googleapis.com/google.rpc.Help",  
  "links": [  
    {  
      "url": "https://cloud.google.com/resource-manager/reference/rest/v1/projects"  
    }  
  ]  
}  
}  
>  
Please make sure to create the project [12] using  
$ gcloud projects create 12  
or change to another project using  
$ gcloud config set project <PROJECT ID>  
vishal@Quantiphi-747:~$ gcloud config configurations list  
NAME      IS_ACTIVE  ACCOUNT                                PROJECT      DEFAULT_ZONE  DEFAULT_REGION  
abc       False     vishal.bisht@quantiphi.com            pe-training  us-east1-b    us-east1  
default   False     vishal.bisht@quantiphi.com            pe-training  us-east1-b    us-east1  
harry     True      vishal.bisht@quantiphi.com            pe-training  us-east1-b    us-east1  
vishal@Quantiphi-747:~$ gcloud config list  
[core]  
account = vishal.bisht@quantiphi.com  
disable_usage_reporting = False  
  
Your active configuration is: [harry]  
vishal@Quantiphi-747:~$
```



The screenshot shows a terminal window on a Linux desktop. The desktop background is dark purple. On the left is a vertical dock with icons for Firefox, a file manager, a terminal, and other applications. The terminal window has a title bar with 'Activities', 'Terminal', and system status icons. The terminal text shows the user 'vishal@Quantiphi-747' running commands to install and verify 'gsutil' and 'kubectl'. The output shows 'gsutil' is installed and 'kubectl' is already installed. A warning message about the server connection is also visible.

```
Activities  Terminal  Wed 15:59  vishal@Quantiphi-747: ~  
File Edit View Search Terminal Help  
vishal@Quantiphi-747:~$ gsutil version  
gsutil version: 4.38  
vishal@Quantiphi-747:~$ bq version  
This is BigQuery CLI 2.0.43  
vishal@Quantiphi-747:~$ kubectl version  
Client Version: version.Info{Major:"1", Minor:"12+", GitVersion:"v1.12.8-dispatcher", GitCommit:"1215389331387f57594b42c5dd024a2fe27334f8", GitTreeState:"clean", BuildDate:"2019-05-13T18:09:56Z", GoVersion:"go1.10.8", Compiler:"gc", Platform:"linux/amd64"}  
The connection to the server localhost:8080 was refused - did you specify the right host or port?  
vishal@Quantiphi-747:~$
```


Activities Terminal Wed 15:59 vishal@Quantiphi-747: ~

```
File Edit View Search Terminal Help
vishal@Quantiphi-747:~$ gsutil version
gsutil version: 4.38
vishal@Quantiphi-747:~$ bq version
This is BigQuery CLI 2.0.43
vishal@Quantiphi-747:~$
```

Activities Terminal Wed 16:00 vishal@Quantiphi-747: ~

```
File Edit View Search Terminal Help
vishal@Quantiphi-747:~$ gsutil version
gsutil version: 4.38
vishal@Quantiphi-747:~$ bq version
This is BigQuery CLI 2.0.43
vishal@Quantiphi-747:~$ gcloud components install kubectl

Your current Cloud SDK version is: 251.0.0
Installing components from version: 251.0.0

These components will be updated.


| Name    | Version    | Size    |
|---------|------------|---------|
| kubectl | 2019.06.14 | < 1 MiB |


For the latest full release notes, please visit:
https://cloud.google.com/sdk/release\_notes
Do you want to continue (Y/n)?
```

```
Activities Terminal Wed 16:00 vishal@Quantiphi-747: ~
File Edit View Search Terminal Help
This is BigQuery CLI 2.0.43
vishal@Quantiphi-747:~$ gcloud components install kubectl

Your current Cloud SDK version is: 251.0.0
Installing components from version: 251.0.0

These components will be updated.



| Name    | Version    | Size    |
|---------|------------|---------|
| kubectl | 2019.06.14 | < 1 MiB |



For the latest full release notes, please visit:
https://cloud.google.com/sdk/release\_notes

Do you want to continue (Y/n)? Y



|                                                   |   |
|---------------------------------------------------|---|
| = Creating update staging area                    | = |
| = Uninstalling: kubectl                           | = |
| = Installing: kubectl                             | = |
| = Creating backup and activating new installation | = |



Performing post processing steps...done.
Update done!

WARNING: There are older versions of Google Cloud Platform tools on your system PATH.
Please remove the following to avoid accidentally invoking these old tools:

/usr/lib/google-cloud-sdk/bin/docker-credential-gcloud
/usr/lib/google-cloud-sdk/bin/git-credential-gcloud
/usr/lib/google-cloud-sdk/bin/gcloud
```

```
Activities Terminal Wed 16:00 vishal@Quantiphi-747: ~
File Edit View Search Terminal Help



| Name    | Version    | Size    |
|---------|------------|---------|
| kubectl | 2019.06.14 | < 1 MiB |



For the latest full release notes, please visit:
https://cloud.google.com/sdk/release\_notes

Do you want to continue (Y/n)? Y



|                                                   |   |
|---------------------------------------------------|---|
| = Creating update staging area                    | = |
| = Uninstalling: kubectl                           | = |
| = Installing: kubectl                             | = |
| = Creating backup and activating new installation | = |



Performing post processing steps...done.
Update done!

WARNING: There are older versions of Google Cloud Platform tools on your system PATH.
Please remove the following to avoid accidentally invoking these old tools:

/usr/lib/google-cloud-sdk/bin/docker-credential-gcloud
/usr/lib/google-cloud-sdk/bin/git-credential-gcloud.sh
/usr/lib/google-cloud-sdk/bin/gcloud
/usr/lib/google-cloud-sdk/bin/gcloud
/usr/lib/google-cloud-sdk/bin/gcloud
/usr/lib/google-cloud-sdk/bin/gcloud

vishal@Quantiphi-747:~$ kubectl version
Client Version: version.Info{Major:"1", Minor:"12+", GitVersion:"v1.12.8-dispatcher", GitCommit:"1215389331387f57594b42c5dd024a2fe27334f8", GitTreeState:"clean", BuildDate:"2019-05-13T18:09:56Z", GoVersion:"go1.10.8", Compiler:"gc", Platform:"linux/amd64"}
The connection to the server localhost:8080 was refused - did you specify the right host or port?

vishal@Quantiphi-747:~$
```

```
Activities Terminal Wed 16:01
vishal@Quantiphi-747: ~
vishal@Quantiphi-747:~$ gcloud components list

Your current Cloud SDK version is: 251.0.0
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 Alpha Commands	alpha	< 1 MiB
Not Installed	gcloud Beta Commands	beta	< 1 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	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:
```

```
Activities Terminal Wed 16:19
vishal@Quantiphi-747: ~
vishal@Quantiphi-747:~$ gcloud components list

Your current Cloud SDK version is: 251.0.0
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 Alpha Commands	alpha	< 1 MiB
Not Installed	gcloud Beta Commands	beta	< 1 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	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:
```

```
Activities Terminal Wed 16:19
vishal@Quantiphi-747:~$ gcloud components list

Your current Cloud SDK version is: 251.0.0
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 Alpha Commands	alpha	< 1 MiB
Not Installed	gcloud Beta Commands	beta	< 1 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	kubectrl	kubectrl	< 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:
```

```
Activities Terminal Wed 16:21
vishal@Quantiphi-747:~$ gcloud components install alpha

Your current Cloud SDK version is: 251.0.0
Installing components from version: 251.0.0
```

These components will be installed.		
Name	Version	Size
gcloud Alpha Commands	2019.05.17	< 1 MiB

```
For the latest full release notes, please visit:
https://cloud.google.com/sdk/release_notes

Do you want to continue (Y/n)? Y
```

Creating update staging area

Installing: gcloud Alpha Commands

Creating backup and activating new installation

```
Performing post processing steps...done.

Update done!

WARNING: There are older versions of Google Cloud Platform tools on your system PATH.
Please remove the following to avoid accidentally invoking these old tools:

/usr/lib/google-cloud-sdk/bin/docker-credential-gcloud
/usr/lib/google-cloud-sdk/bin/git-credential-gcloud.sh
/usr/lib/google-cloud-sdk/bin/gcloud
/usr/lib/google-cloud-sdk/bin/gcloud
/usr/lib/google-cloud-sdk/bin/gcloud
```



```
Activities Terminal Wed 16:22 vishal@Quantiphi-747: ~
File Edit View Search Terminal Help
vishal@Quantiphi-747:~$ gcloud components install beta

Your current Cloud SDK version is: 251.0.0
Installing components from version: 251.0.0

These components will be installed.


| Name                 | Version    | Size    |
|----------------------|------------|---------|
| gcloud Beta Commands | 2019.05.17 | < 1 MiB |



For the latest full release notes, please visit:
https://cloud.google.com/sdk/release\_notes

Do you want to continue (Y/n)? Y

- Creating update staging area
- Installing: gcloud Beta Commands
- Creating backup and activating new installation

Performing post processing steps...done.

Update done!

WARNING: There are older versions of Google Cloud Platform tools on your system PATH.
Please remove the following to avoid accidentally invoking these old tools:

/usr/lib/google-cloud-sdk/bin/docker-credential-gcloud
/usr/lib/google-cloud-sdk/bin/git-credential-gcloud.sh
/usr/lib/google-cloud-sdk/bin/gcloud
/usr/lib/google-cloud-sdk/bin/gcloud

```

```
Activities Terminal Wed 16:22 vishal@Quantiphi-747: ~
File Edit View Search Terminal Help
vishal@Quantiphi-747:~$ gcloud components list

Your current Cloud SDK version is: 251.0.0
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  |
| Not 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

```