## Dataproc staging and temp buckets

When you create a cluster, by default, Dataproc creates a Cloud Storage staging and a Cloud Storage temp <a href="mailto:bucket">bucket</a> (/storage/docs/key-terms#buckets) in your project or reuses existing Dataproc-created staging and temp buckets from previous cluster creation requests.

- Staging bucket: Used to stage cluster job dependencies, job driver output
   (/dataproc/docs/guides/driver-output#accessing\_job\_driver\_output), and cluster config files.
   Also receives output from the Cloud SDK gcloud dataproc clusters diagnose
   (/dataproc/docs/support/diagnose-command) command.
- Temp bucket: Used to store ephemeral cluster and jobs data, such as Spark and MapReduce history files.

If you do not specify a staging of temp bucket, Dataproc sets a <u>Cloud Storage location in US</u>, <u>ASIA</u>, or <u>EU</u> (/storage/docs/locations#location-mr) for your cluster's staging and temp buckets according to the Compute Engine zone where your cluster is deployed, and then creates and manages these project-level, per-location buckets. Dataproc-created staging and temp buckets are shared among clusters in the same region. By default, temp bucket has a TTL of 90 days.

Instead of relying on the creation of a default staging and temp bucket, you can specify existing Cloud Storage buckets that Dataproc will use as your cluster's staging and temp bucket.

gcloud commandREST API (#rest-api)Console (#console)

```
$ gcloud dataproc clusters create cluster-name \
    --region=region \
    --bucket=bucket-name \
    --temp-bucket=bucket-name \
    other args ...
```

Dataproc uses a defined folder structure for Cloud Storage buckets attached to clusters.

Dataproc also supports attaching more than one cluster to a Cloud Storage bucket. The folder structure used for saving job driver output in Cloud Storage is:

```
-storage-bucket-name
oogle-cloud-dataproc-metainfo
list of cluster IDs
- list of job IDs
- list of output logs for a job
```

You can use the gcloud command line tool, Dataproc API, or Google Cloud Console to list the name of a cluster's staging and temp buckets.

gcloud commandREST API (#rest-api)Console (#console)

## Runthegcloud dataproc clusters describe

(/sdk/gcloud/reference/dataproc/clusters/describe) command locally in a terminal window or in <u>Cloud Shell</u> (https://console.cloud.google.com/?cloudshell=true). The staging and temp buckets associated with your cluster are listed in the output.

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