访问 GCS 方式

1、通过gsutil 方式在GCE VM 中获取GCS 中的文件，

注意，需要提前登录service Account或个人账号，GCE 默认会登陆一个compute engine的Service Account，GCP 创建的VM 默认是安装过gcloud \gsutil 命令的；可以提前执行 gcloud config list 查看当前账号信息：

```
$ gsutil cp gs://BUCKET_NAME/OBJECT_NAME SAVE_TO_LOCATION

   -  BUCKET_NAME:GCS bukcet 名称
   -  OBJECT_NAME：需要下载的队形名称
   -  SAVE_TO_LOCATION ：本地文件路径
```

示例：我在Cloud Shell 中通过gsutil 获取文件：

```
$ gsutil cp gs://data-web/testa.txt ./
```

2、通过客户端库访问并获取 GCS 中的文件，需要提前安装client library

```
from google.cloud import storage


def download_blob(bucket_name, source_blob_name, destination_file_name):
    """Downloads a blob from the bucket."""
    # The ID of your GCS bucket
    # bucket_name = "your-bucket-name"

    # The ID of your GCS object
    # source_blob_name = "storage-object-name"

    # The path to which the file should be downloaded
    # destination_file_name = "local/path/to/file"

    storage_client = storage.Client()

    bucket = storage_client.bucket(bucket_name)

    # Construct a client side representation of a blob.
    # Note `Bucket.blob` differs from `Bucket.get_blob` as it doesn't
retrieve
    # any content from Google Cloud Storage. As we don't need additional
data,
    # using `Bucket.blob` is preferred here.
    blob = bucket.blob(source_blob_name)
```

```
    blob.download_to_filename(destination_file_name)

    print(
        "Downloaded storage object {} from bucket {} to local file
{}.".format(
            source_blob_name, bucket_name, destination_file_name
        )
    )
```

详细参考：

[1] Storage Client

3、通过API方式，获取GCS 中的文件

```
curl -X GET \
  -H "Authorization: Bearer  $(gcloud auth print-access-token)" \
  -o "SAVE_TO_LOCATION" \
"https://storage.googleapis.com/storage/v1/b/BUCKET_NAME/o/OBJECT_NAME?alt=media"
```

注意，请替换如下变量：

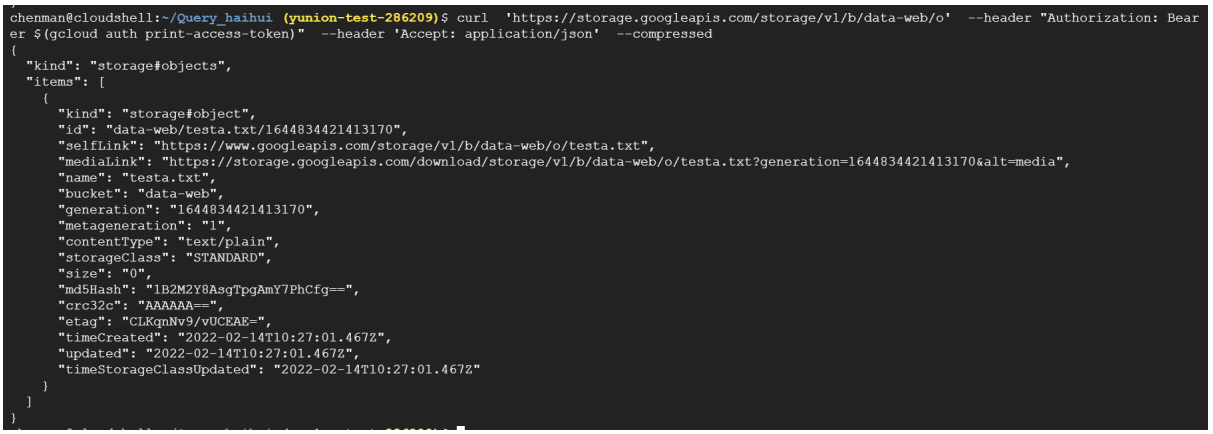
- BUCKET_NAME:GCS bukcet 名称
- OBJECT_NAME：需要下载的队形名称
- SAVE_TO_LOCATION ：本地文件路径

示例请求：

```
$ curl -X GET    -H "Authorization: Bearer $(gcloud auth
print-access-token)"    -o "save_file.txt"
"https://storage.googleapis.com/storage/v1/b/data-web/o/testa.txt?alt=media"
  % Total    % Received % Xferd  Average Speed   Time    Time     Time
Current
                                 Dload  Upload   Total   Spent    Left
Speed
  0     0    0     0    0     0      0      0 --:--:-- --:--:-- --:--:--
0
```

如发生返回错误code ：401 建议检查命令：

正确返回如下所示：



```
chenman@cloudshell:~/Query_haihui (yunion-test-286209)$ curl  'https://storage.googleapis.com/storage/v1/b/data-web/o'  --header "Authorization: Bear
er $(gcloud auth print-access-token)"  --header 'Accept: application/json'  --compressed
{
  "kind": "storage#objects",
  "items": [
    {
      "kind": "storage#object",
      "id": "data-web/testa.txt/1644834421413170",
      "selfLink": "https://www.googleapis.com/storage/v1/b/data-web/o/testa.txt",
      "mediaLink": "https://storage.googleapis.com/download/storage/v1/b/data-web/o/testa.txt?generation=1644834421413170&alt=media",
      "name": "testa.txt",
      "bucket": "data-web",
      "generation": "1644834421413170",
      "metageneration": "1",
      "contentType": "text/plain",
      "storageClass": "STANDARD",
      "size": "0",
      "md5Hash": "1B2M2Y8AsgTpgAmY7PhCfg==",
      "crc32c": "AAAAAA==",
      "etag": "CLKqnNv9/vUCEAE=",
      "timeCreated": "2022-02-14T10:27:01.467Z",
      "updated": "2022-02-14T10:27:01.467Z",
      "timeStorageClassUpdated": "2022-02-14T10:27:01.467Z"
    }
  ]
}
```

[1] Download objects | Cloud Storage