

Managing AWS S3 using CLI

- Create a new s3 bucket
- upload an object
- get information about the object
- approach 1 `aws s3`

```
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> aws s3 ls
2024-05-10 09:45:32 elasticbeanstalk-ap-south-1-381491878286
2024-04-30 15:41:02 khajareferenceapps
2024-06-12 10:04:45 ltawscliexample
2024-06-12 09:23:14 ltsharingdemo
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> aws s3 mb s3://lts3demo1306
make_bucket: lts3demo1306
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> aws s3 cp .\storage1.png s3://lts3demo1306/
upload: .\storage1.png to s3://lts3demo1306/storage1.png
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> aws s3 ls
2024-05-10 09:45:32 elasticbeanstalk-ap-south-1-381491878286
2024-04-30 15:41:02 khajareferenceapps
2024-06-12 10:04:45 ltawscliexample
2024-06-13 09:09:26 lts3demo1306
2024-06-12 09:23:14 ltsharingdemo
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> aws s3 ls s3://lts3demo1306/
2024-06-13 09:09:56          25622 storage1.png
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images>
```

- approach 2 `aws s3api` [Refer Here](#)

```
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> aws s3api create-bucket --acl private --bucket "lts3paidemo1306" --region "ap-south-1" --create-bucket-configuration LocationConstraint=ap-south-1
{
  "Location": "http://lts3paidemo1306.s3.amazonaws.com/"
}
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images>
```

```
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> aws s3api create-bucket --acl private --bucket "lts3paidemo1306" --region "ap-south-1" --create-bucket-configuration LocationConstraint=ap-south-1
{
  "Location": "http://lts3paidemo1306.s3.amazonaws.com/"
}
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> aws s3api put-object --bucket "lts3paidemo1306" --key "Images/storage1.png" --body .\storage1.png
{
  "ETag": "\"a7f04799e369b7bc1836fdcf3ec4c9f6\"",
  "ServerSideEncryption": "AES256"
}
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> aws s3api put-object --bucket "lts3paidemo1306" --key "Images/storage2.png" --body .\storage2.png --storage-class "ONEZONE_IA"
{
  "ETag": "\"0aef113b531692a559a66767b67eea24\"",
  "ServerSideEncryption": "AES256"
}
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images>
```

×

Objects

Properties

Objects (2) Info

↻

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

< 1 > ⚙

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	storage1.png	png	June 13, 2024, 09:22:19 (UTC+05:30)	25.0 KB	Standard
<input type="checkbox"/>	storage2.png	png	June 13, 2024, 09:24:08 (UTC+05:30)	68.0 KB	One Zone-IA

docs.aws.amazon.com/cli/latest/reference/s3api/

AWS CLI Command Reference

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User Guide

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GitHub

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```

PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> aws s3api get-object-attributes \
>> --bucket lts3paidemo1306 \
>> --key Images/storage1.png \
>> --object-attributes "StorageClass" "ETag" "ObjectSize"
{
  "LastModified": "2024-06-13T03:52:19+00:00",
  "ETag": "a7f04799e369b7bc1836fdcf3ec4c9f6",
  "StorageClass": "STANDARD",
  "ObjectSize": 25622
}

PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> aws s3api get-object-attributes \
>> --bucket lts3paidemo1306 \
>> --key Images/storage2.png \
>> --object-attributes "StorageClass" "ETag" "ObjectSize"
{
  "LastModified": "2024-06-13T03:54:08+00:00",
  "ETag": "0aef113b531692a559a66767b67eea24",
  "StorageClass": "ONEZONE_IA",
  "ObjectSize": 69675
}

PS C:\Classroomnotes\MultiCloud\May24\Storage\Images>

```

```

Dell@DESKTOP-TM7SH71 MINGW64 ~
$ aws s3api get-object-attributes \
  --bucket lts3paidemo1306 \
  --key Images/storage1.png \
  --object-attributes "StorageClass" "ETag" "ObjectSize"
{
  "LastModified": "2024-06-13T03:52:19+00:00",
  "ETag": "a7f04799e369b7bc1836fdcf3ec4c9f6",
  "StorageClass": "STANDARD",
  "ObjectSize": 25622
}

Dell@DESKTOP-TM7SH71 MINGW64 ~
$ aws s3api get-object-attributes \
  --bucket lts3paidemo1306 \
  --key Images/storage2.png \
  --object-attributes "StorageClass" "ETag" "ObjectSize"
{
  "LastModified": "2024-06-13T03:54:08+00:00",
  "ETag": "0aef113b531692a559a66767b67eea24",
  "StorageClass": "ONEZONE_IA",
  "ObjectSize": 69675
}

```

- Emptying the bucket using s3api command
- create a file called as `deletes3.sh` with following

```

#!/bin/bash
BUCKET_NAME=$1

```

```
aws s3api list-object-versions --bucket ${BUCKET_NAME} > /dev/null
aws s3api delete-objects --bucket ${BUCKET_NAME} --delete "$(aws s3api list-object-versions --bucket ${BUCKET_NAME} --query='{Objects: Versions[].[Key:Key,VersionId:VersionId]}')"
```

```
aws s3api delete-objects --bucket ${BUCKET_NAME} --delete "$(aws s3api list-object-versions --bucket ${BUCKET_NAME} --query='{Objects: DeleteMarkers[].[Key:Key,VersionId:VersionId]}')"
```

```
aws s3 rb s3://${BUCKET_NAME} --force
```

- Now execute the following command

```
Dell@DESKTOP-TM7SH71 MINGW64 /c/khajaaclassroom/aws/administration/s3/june24/utils (master)
$ ./deletes3bucket.sh lts3paidemo1306
{
  "Versions": [
    {
      "ETag": "\"e29e01b30d2e1bba12f845d279317305\"",
      "Size": 55165,
      "StorageClass": "STANDARD",
      "Key": "storage104.png",
      "VersionId": "jDQ10r3VbbBmPwyYZ6HFs7QAICx0EL_G",
      "IsLatest": true,
      "LastModified": "2024-06-13T04:20:17+00:00",
      "Owner": {
        "ID": "93fb0cdbf659a6ddc0c93e9b5471ee93080e97470ac5b53408135148b13d1934"
      }
    }
  ],
  "RequestCharged": null
}
{
  "Deleted": [
    {
      "Key": "storage104.png",
      "VersionId": "jDQ10r3VbbBmPwyYZ6HFs7QAICx0EL_G"
    }
  ]
}

Parameter validation failed:
Invalid type for parameter Delete.Objects, value: None, type: <class 'NoneType'>, valid types
```

- Note: if you are good with python try boto3 sdk to create a file called as `deletes3.py`

Azure CLI

- Use `az login` to authenticate
- azure cli on boarding [Refer Here](#)
- Pattern

```
az <command group> [<sub-command-group>] <action> [--arg1 value1]..[--argn
valuen] ]
```

```

PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> az group list --output table
Name                Location      Status
-----
NetworkWatcherRG    centralindia  Succeeded
ssh                  eastus        Succeeded
samplepaas          eastus        Succeeded
original             eastus        Succeeded
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> az group delete --name original --yes --no-wait
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> az group create --name test --location eastus
{
  "id": "/subscriptions/7ee23928-6bf0-4a1b-8e1d-b854f8f98d81/resourceGroups/test",
  "location": "eastus",
  "managedBy": null,
  "name": "test",
  "properties": {
    "provisioningState": "Succeeded"
  },
  "tags": null,
  "type": "Microsoft.Resources/resourceGroups"
}
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images> az group list --output table
Name                Location      Status
-----
NetworkWatcherRG    centralindia  Succeeded
ssh                  eastus        Succeeded
samplepaas          eastus        Succeeded
original             eastus        Deleting
test                 eastus        Succeeded
PS C:\Classroomnotes\MultiCloud\May24\Storage\Images>

```

- Create a storage account