

S3 Multipart Upload

[Practical 03]

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Problem Statement

Demonstrate uploading a large file in multiple parts to an Amazon S3 bucket using the AWS CLI.

Step1: configure AWS

```
PS C:\Users\Shivshankar> aws configure
AWS Access Key ID [*****GNE3]:
AWS Secret Access Key [*****RT5c]:
Default region name [ap-south-1]:
Default output format [json]:
```

Step2: Change Directory to File Location

```
PS C:\Users\Shivshankar\Downloads> cd s3multipart
PS C:\Users\Shivshankar\Downloads\s3multipart>
```

Step3: Create an S3 Bucket

```
PS C:\Users\Shivshankar\Downloads\s3multipart> aws s3 mb s3://multipart-shiv11-bucket
make_bucket: multipart-shiv11-bucket
PS C:\Users\Shivshankar\Downloads\s3multipart>
```

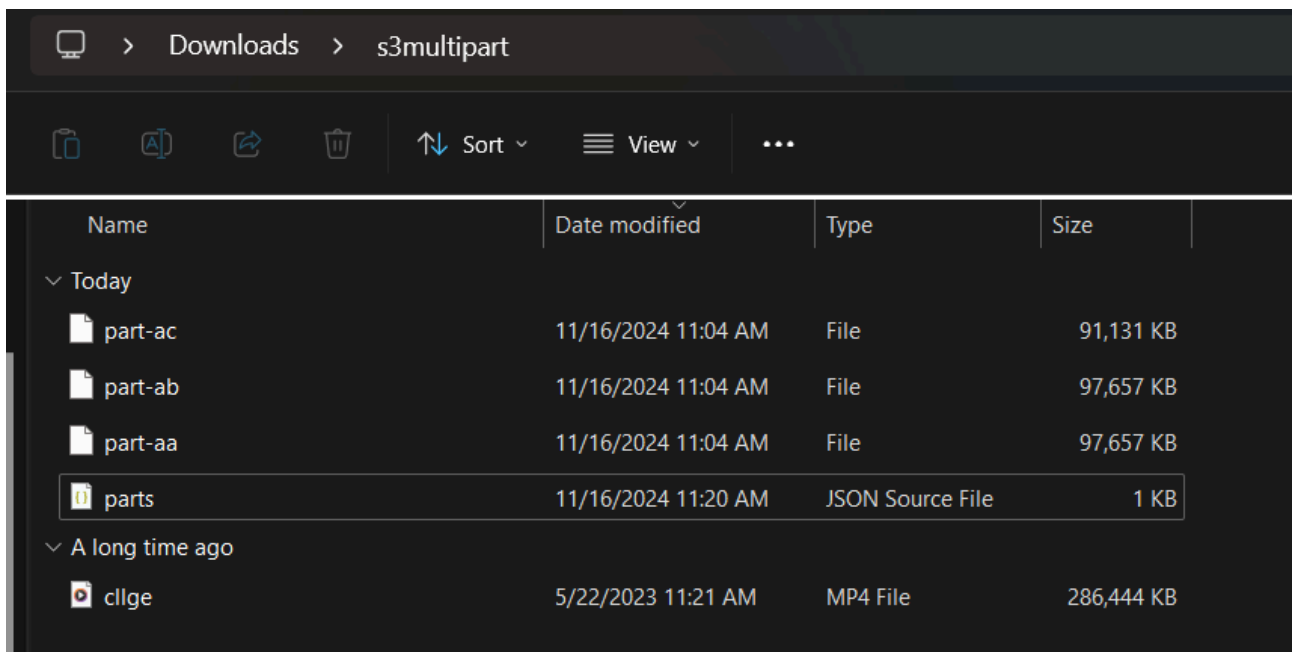
Step4: Split the File

```
PS C:\Users\Shivshankar\Downloads\s3multipart> wsl --install
Ubuntu is already installed.
Launching Ubuntu...
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.167.4-microsoft-standard-WSL2 x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/advantage

This message is shown once a day. To disable it please create the
/home/shiv/.hushlogin file.
shiv@LAPTOP-F7LVVQTS:~$ cd /mnt/c/Users/Shivshankar/Downloads/s3multipart
shiv@LAPTOP-F7LVVQTS:/mnt/c/Users/Shivshankar/Downloads/s3multipart$
```

```
shiv@LAPTOP-F7LVVQTS:/mnt/c/Users/Shivshankar/Downloads/s3multipart$ split -b 100MB cllge.mp4 part_
shiv@LAPTOP-F7LVVQTS:/mnt/c/Users/Shivshankar/Downloads/s3multipart$ |
```



Name	Date modified	Type	Size
▼ Today			
part-ac	11/16/2024 11:04 AM	File	91,131 KB
part-ab	11/16/2024 11:04 AM	File	97,657 KB
part-aa	11/16/2024 11:04 AM	File	97,657 KB
parts	11/16/2024 11:20 AM	JSON Source File	1 KB
▼ A long time ago			
cllge	5/22/2023 11:21 AM	MP4 File	286,444 KB

Step 6: Initiate Multipart Upload

```
PS C:\Users\Shivshankar\Downloads\s3multipart> aws s3api create-multipart-upload --bucket multipart-shiv11-bucket --key
"cllge.mp4"
{
  "ServerSideEncryption": "AES256",
  "Bucket": "multipart-shiv11-bucket",
  "Key": "cllge.mp4",
  "UploadId": "zV0kL0CRHhICGKDJJJs1yL0vZBL7N9m8ez_96GfYVEGMTfonxmW60mSTY9re07fk.W6B85NoC0oDJQMGM2sQ5qv8ZurEI6mKD6844X
8T7duJrYA0wIuUH3Yn3asF51Yc"
}
```

"UploadId":

"zV0kLOCRRHhICGKDJJDS1yL0vZBL7N9m8ez_96GfYVEGMTfonxmW60mSTY9re07fk.W6B85NoC0oDJQMGM2sQ5qv8ZurEI6mKD6844X8T7duJrYA0wluUH3Yn3asF51Yc"

```
PS C:\Users\Shivshankar\Downloads\s3multipart> ls part_*

Directory: C:\Users\Shivshankar\Downloads\s3multipart

Mode                LastWriteTime         Length Name
----                -
-a-----         11/16/2024    9:41 AM      100000000 part_aa
-a-----         11/16/2024    9:41 AM      100000000 part_ab
-a-----         11/16/2024    9:41 AM       93317763 part_ac
```

Step 7: Upload Each Part

```
PS C:\Users\Shivshankar\Downloads\s3multipart> aws s3api upload-part --bucket multipart-shiv11-bucket --key "c1lge.mp4"
--part-number 1 --body part-aa --upload-id "zV0kLOCRRHhICGKDJJDS1yL0vZBL7N9m8ez_96GfYVEGMTfonxmW60mSTY9re07fk.W6B85NoC0
oDJQMGM2sQ5qv8ZurEI6mKD6844X8T7duJrYA0wluUH3Yn3asF51Yc"
{
  "ServerSideEncryption": "AES256",
  "ETag": "\"cceb271cec68b425aeb89d5f3ce added14\""
}
```

```
PS C:\Users\Shivshankar\Downloads\s3multipart> aws s3api upload-part --bucket multipart-shiv11-bucket --key "c1lge.mp4"
--part-number 2 --body part-ab --upload-id "zV0kLOCRRHhICGKDJJDS1yL0vZBL7N9m8ez_96GfYVEGMTfonxmW60mSTY9re07fk.W6B85NoC0
oDJQMGM2sQ5qv8ZurEI6mKD6844X8T7duJrYA0wluUH3Yn3asF51Yc"
{
  "ServerSideEncryption": "AES256",
  "ETag": "\"761437acbd3648456619d1282109394f\""
}
```

```
PS C:\Users\Shivshankar\Downloads\s3multipart> aws s3api upload-part --bucket multipart-shiv11-bucket --key "c1lge.mp4"
--part-number 3 --body part-ac --upload-id "zV0kLOCRRHhICGKDJJDS1yL0vZBL7N9m8ez_96GfYVEGMTfonxmW60mSTY9re07fk.W6B85NoC0
oDJQMGM2sQ5qv8ZurEI6mKD6844X8T7duJrYA0wluUH3Yn3asF51Yc"
{
  "ServerSideEncryption": "AES256",
  "ETag": "\"509b59e8a994e91db101a8234aa added10\""
}
```

```
PS C:\Users\Shivshankar\Downloads\s3multipart> aws s3api list-parts --bucket multipart-shiv1-bucket --key cllge.mp4 --upload-id "KL94RUZVEzbXEdP.mwdD9pBLFQHku89iZiGUmMZevQg_W7TwS.k0v3vXbHZ2oQ1XgMXylcuvHuDRuInaASxUY7Y9RgjTs7eCt_xmLOB6Xp3PwRdMUuiWxkP28t3TPF3t"
{
  "Parts": [
    {
      "PartNumber": 1,
      "LastModified": "2024-11-16T05:02:11+00:00",
      "ETag": "\"cceb271cec68b425aeb89d5f3cefdd14\"",
      "Size": 100000000
    },
    {
      "PartNumber": 2,
      "LastModified": "2024-11-16T05:08:19+00:00",
      "ETag": "\"761437acbd3648456619d1282109394f\"",
      "Size": 100000000
    },
    {
      "PartNumber": 3,
      "LastModified": "2024-11-16T05:15:10+00:00",
      "ETag": "\"509b59e8a994e91db101a8234aaf9010\"",
      "Size": 93317763
    }
  ],
  "ChecksumAlgorithm": null,
  "Initiator": {
    "ID": "arn:aws:iam::715841363442:user/s3multipart-user-1",
    "DisplayName": "s3multipart-user-1"
  },
  "Owner": {

```



Step8: Complete the Multipart Upload

```
PS C:\Users\Shivshankar\Downloads\s3multipart> aws s3api complete-multipart-upload --bucket multipart-shiv11-bucket --key cllge.mp4 --upload-id "zV0kL0CRHhICGKDJDs1yL0vZBL7N9m8ez_96GfYVEGMTfonxmW60mSTY9re07fk.W6B85NoC0oDJQMGM2sQ5qv8ZurEI6mKD6844X8T7duJrYA0wIuUH3Yn3asF51Yc" --multipart-upload file://parts.json
{
  "ServerSideEncryption": "AES256",
  "Location": "https://multipart-shiv11-bucket.s3.ap-south-1.amazonaws.com/clang.mp4",
  "Bucket": "multipart-shiv11-bucket",
  "Key": "clang.mp4",
  "ETag": "\"2ce5c97ef062900eb005986830b272a4-3\""
}
```

Step 9: Verify the Upload

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Mumbai Shivshankar

Amazon S3 > Buckets > multipart-shiv11-bucket

multipart-shiv11-bucket

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (1)

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 >

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	 c1lge.mp4	mp4	November 16, 2024, 11:07:04 (UTC+05:30)	279.7 MB	Standard





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Amazon S3 Buckets multipart-shiv11-bucket clnge.mp4

clnge.mp4

Info

Copy S3 URI

Download

Open

Object actions

Properties

Permissions

Versions

Object overview

Owner

2b57f3387ff24163aa7c467f199d92535da4bfff0f0aa68e4c2cb05fe42e33892

AWS Region

Asia Pacific (Mumbai) ap-south-1

Last modified

November 16, 2024, 11:07:04 (UTC+05:30)

Size

279.7 MB

Type

mp4

Key

S3 URI

s3://multipart-shiv11-bucket/clnge.mp4

Amazon Resource Name (ARN)

arn:aws:s3:::multipart-shiv11-bucket/clnge.mp4

Entity tag (Etag)

2ce5c97ef062900eb005986830b272a4-3

Object URL

https://multipart-shiv11-bucket.s3.ap-south-1.amazonaws.com/clnge.mp4

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