



- 1 Introduction
 - 1 Upload large files by breaking them into smaller parts
 - 2 Required for files larger than 5 GB
 - 3 Supports uploads up to 5 TB
 - 4 Parts can be uploaded in parallel
 - 5 Individual parts can be retried if they fail
 - 6 Improves upload efficiency and reliability
 - 7 Essential for environments with unstable network conditions

- 2 How Multipart Upload Works
 - 1 Start a multipart upload to get an upload ID
 - 2 Upload the file in parts (each part must be at least 5 MB, except the last one). Parts can be uploaded in any order and in parallel.
 - 3 Each part upload returns an ETag, used to track the parts
 - 4 Send a request with the upload ID and part details (including ETags) to assemble the file.
 - 5 Optionally abort the upload to stop and clean up partially uploaded parts.

- 3 Create Multipart Upload
 - 1 Step-1 Splitting the File Using 7-Zip
 - 1 Uploading Split Parts to S3 Using AWS CLI
 - 1 `aws s3api create-multipart-upload --bucket your-bucket-name --key your-large-file`
 - 2 Note the UploadId from the response.
 - 2 Upload Each Part
 - 1 `aws s3api upload-part --bucket your-bucket-name --key your-large-file --part-number 1 --body .\yourfile.zip.001 --upload-id <UploadId>`
`aws s3api upload-part --bucket your-bucket-name --key your-large-file --part-number 2 --body .\yourfile.zip.002 --upload-id <UploadId>`
Repeat for all parts
 - 2 Note Down Etag Of Each Upload
 - 3 List Uploaded Parts to Verify `aws s3api list-parts --bucket your-bucket-name --key your-large-file --upload-id <UploadId>`
 - 4 Create JSON File with Part Information

```
{
  "Parts": [
    {
      "ETag": "\"etag-for-part1\"",
      "PartNumber": 1
    },
    {
      "ETag": "\"etag-for-part2\"",
      "PartNumber": 2
    }
  ]
}
```
 - 5 Complete Multipart Upload `aws s3api complete-multipart-upload --bucket your-bucket-name --key your-large-file --upload-id <UploadId> --multipart-upload file://C:\path\to\parts.json`
 - 2 Step-2