

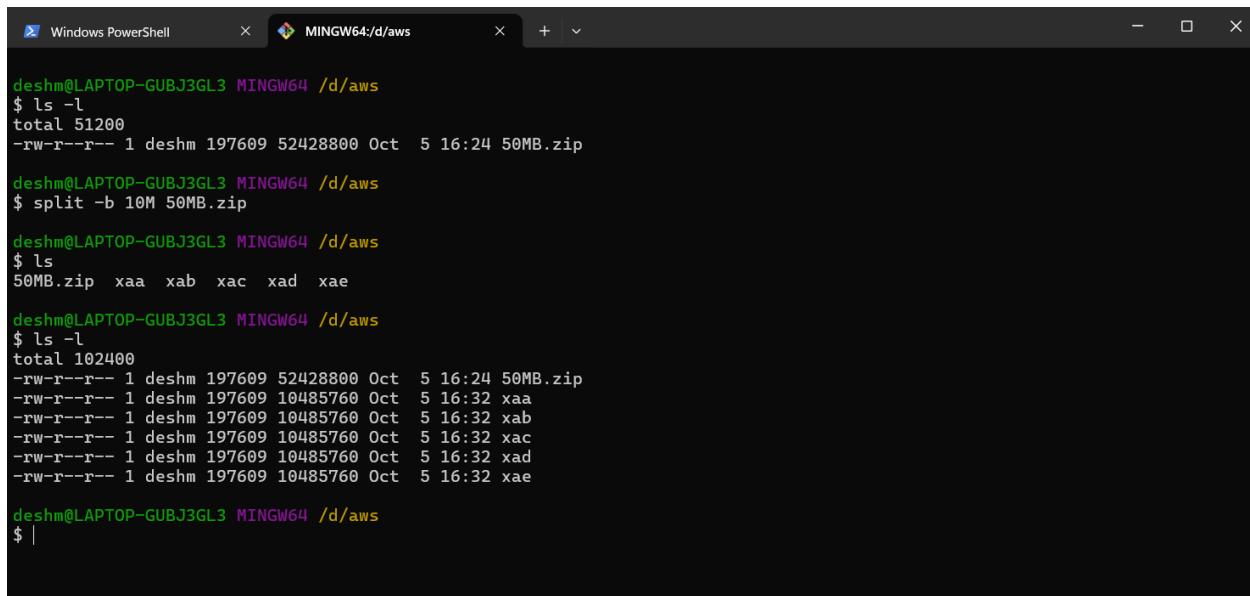
# Practical 5

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Roll no. 158

## # Multipart file upload



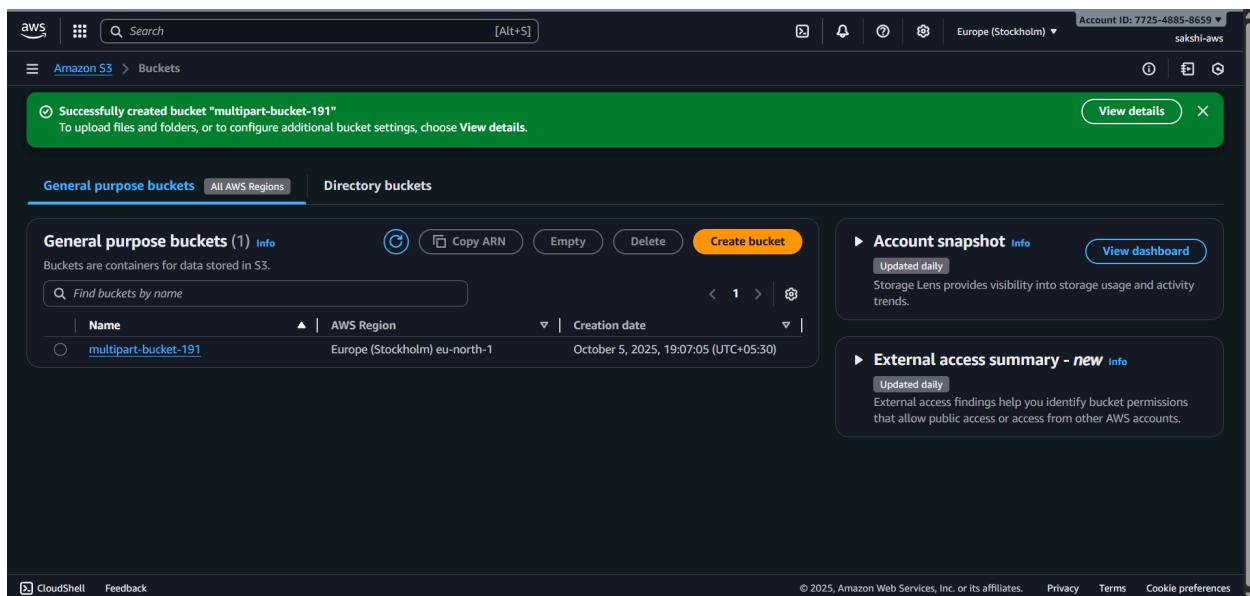
```
deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws
$ ls -l
total 51200
-rw-r--r-- 1 deshm 197609 52428800 Oct  5 16:24 50MB.zip

deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws
$ split -b 10M 50MB.zip

deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws
$ ls
50MB.zip xaa xab xac xad xae

deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws
$ ls -l
total 102400
-rw-r--r-- 1 deshm 197609 52428800 Oct  5 16:24 50MB.zip
-rw-r--r-- 1 deshm 197609 10485760 Oct  5 16:32 xaa
-rw-r--r-- 1 deshm 197609 10485760 Oct  5 16:32 xab
-rw-r--r-- 1 deshm 197609 10485760 Oct  5 16:32 xac
-rw-r--r-- 1 deshm 197609 10485760 Oct  5 16:32 xad
-rw-r--r-- 1 deshm 197609 10485760 Oct  5 16:32 xae

deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws
$ |
```



The screenshot shows the AWS S3 console interface. At the top, there's a green success message: "Successfully created bucket 'multipart-bucket-191'. To upload files and folders, or to configure additional bucket settings, choose View details." Below this, the "General purpose buckets" tab is selected, showing one bucket named "multipart-bucket-191" in Europe (Stockholm) region, created on October 5, 2025. To the right, there are two informational boxes: "Account snapshot" (updated daily) and "External access summary" (new, updated daily). At the bottom, there are links for CloudShell, Feedback, and various legal notices.

```
Windows PowerShell MINGW64/d/aws
deshm@LAPTOP-GUBJ3GL3 MINGW64 ~
$ aws s3api list-buckets
{
  "Buckets": [
    {
      "Name": "multipart-bucket-191",
      "CreationDate": "2025-10-05T13:37:07+00:00"
    }
  ],
  "Owner": {
    "ID": "8b31f421e07a584a1e42e41e1f341a46f4245a15e126f72d2a66afcfc2ee0b"
  },
  "Prefix": null
}
```

```
Windows PowerShell MINGW64/d/aws
deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws
$ aws s3api create-multipart-upload --bucket multipart-bucket-191 --key 50MB.zip
{
  "ServerSideEncryption": "AES256",
  "Bucket": "multipart-bucket-191",
  "Key": "50MB.zip",
  "UploadId": "teBnZRF.W1Xq_4GVohGlZAJ9JosBWrdt6DiTj8pURjXeza4pmvAvjC05xXdsfAazq_a6pjel.EiCNadII_qKCAwkrbh4Hs5wZuR0VYYyYXqFrrWTFDnnapp0fxLe9bt"
}

deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws
$ ls -l
total 102404
-rw-r--r-- 1 deshm 197609 504 Oct  5 18:45 50MB.json
-rw-r--r-- 1 deshm 197609 52428800 Oct  5 16:24 50MB.zip
-rw-r--r-- 1 deshm 197609 10485760 Oct  5 16:32 xaa
-rw-r--r-- 1 deshm 197609 10485760 Oct  5 16:32 xab
-rw-r--r-- 1 deshm 197609 10485760 Oct  5 16:32 xac
-rw-r--r-- 1 deshm 197609 10485760 Oct  5 16:32 xad
-rw-r--r-- 1 deshm 197609 10485760 Oct  5 16:32 xae
```

```
Windows PowerShell MINGW64/d/aws
deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws
$ aws s3api upload-part --bucket multipart-bucket-191 --key 50MB.zip --part-number 1 --body xaa --upload-id teBnZRF.W1Xq_4GVohGlZAJ9JosBWrdt6DiTj8pURjXeza4pmvAvjC05xXdsfAazq_a6pjel.EiCNadII_qKCAwkrbh4Hs5wZuR0VYYyYXqFrrWTFDnnapp0fxLe9bt
{
  "ServerSideEncryption": "AES256",
  "ETag": "\"b92552cdfe1fffc19ea54uffff58003a81\"",
  "ChecksumCRC64NVME": "3PvuKA5NHFE"
}

deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws
$ aws s3api upload-part --bucket multipart-bucket-191 --key 50MB.zip --part-number 2 --body xab --upload-id teBnZRF.W1Xq_4GVohGlZAJ9JosBWrdt6DiTj8pURjXeza4pmvAvjC05xXdsfAazq_a6pjel.EiCNadII_qKCAwkrbh4Hs5wZuR0VYYyYXqFrrWTFDnnapp0fxLe9bt
{
  "ServerSideEncryption": "AES256",
  "ETag": "\"bc8747816b09d3150047d79c872e2476\"",
  "ChecksumCRC64NVME": "UvMzt87kfcM"
}

deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws
$ aws s3api upload-part --bucket multipart-bucket-191 --key 50MB.zip --part-number 3 --body xac --upload-id teBnZRF.W1Xq_4GVohGlZAJ9JosBWrdt6DiTj8pURjXeza4pmvAvjC05xXdsfAazq_a6pjel.EiCNadII_qKCAwkrbh4Hs5wZuR0VYYyYXqFrrWTFDnnapp0fxLe9bt
{
  "ServerSideEncryption": "AES256",
  "ETag": "\"c8c7015fbedfa77041b46777a336f77a\"",
  "ChecksumCRC64NVME": "TpSWTkS8qAc"
}

deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws
$ aws s3api upload-part --bucket multipart-bucket-191 --key 50MB.zip --part-number 4 --body xad --upload-id teBnZRF.W1Xq_4GVohGlZAJ9JosBWrdt6DiTj8pURjXeza4pmvAvjC05xXdsfAazq_a6pjel.EiCNadII_qKCAwkrbh4Hs5wZuR0VYYyYXqFrrWTFDnnapp0fxLe9bt
{
  "ServerSideEncryption": "AES256",
  "ETag": "\"678353711983610633ec6fd26c7acd5d\"",
  "ChecksumCRC64NVME": "FeBkbf/C1G4="
```

```

Windows PowerShell MINGW64/d/aws
$ aws s3api list-parts --bucket multipart-upload-bucket-191 --key 50MB.zip --upload-id ZAVic8i..eBGhMuye8nAVjsqDyrj9E9V9charRZCIPzjsuH_GESp9.dSoIxslBJKuyzQl3Iev_Lo88xZfjrUr618VTPRtLPeZ3pLiFer0tq.oAgdksvTZ
SLQ2Rw
{
    "Parts": [
        {
            "PartNumber": 1,
            "LastModified": "2025-10-05T11:10:13+00:00",
            "ETag": "\\"b92552cdffcelffc196e544ffff5803a81\\\"",
            "Size": 1048576
        },
        {
            "PartNumber": 2,
            "LastModified": "2025-10-05T11:18:58+00:00",
            "ETag": "\\"bc8747816b09d3150047d79c872e2476\\\"",
            "Size": 1048576
        },
        {
            "PartNumber": 3,
            "LastModified": "2025-10-05T11:19:33+00:00",
            "ETag": "\\"c8c7015fbefda77041b46777a336f77a\\\"",
            "Size": 1048576
        },
        {
            "PartNumber": 4,
            "LastModified": "2025-10-05T11:20:07+00:00",
            "ETag": "\\"678353711983610633ec6fd26c7acd5d\\\"",
            "Size": 1048576
        },
        {
            "PartNumber": 5,
            "LastModified": "2025-10-05T11:28:32+00:00",
            "ETag": "\\"92d863620b45cd144d0086ad0316b260\\\"",
            "Size": 1048576
        }
    ],
    "ChecksumAlgorithm": null,
    "Initiator": {
        "ID": "arn:aws:iam::772548858659:user/Sakshi",
        "DisplayName": "Sakshi"
    },
    "Owner": {
        "ID": "#b31f421e07a584a1e42e41ef341a1a6f4245a15e126f72dd2a66acfcc2ee0b"
    },
    "StorageClass": "STANDARD",
    "ChecksumType": null
}

```

```

Windows PowerShell MINGW64/d/aws
$ aws s3api list-parts --bucket multipart-bucket-191 --key 50MB.zip --upload-id teBnZRF.W1Xq_4GV0hGlZAJ9JosBWrdt6DiTj8pURjXez4pmvyAvjC05xXdsfAazq_a6pjel.EIc
NadII_qKCawkrbh4Hs5wZuR0VYYyYXqFrwVTFDnnapp0FxLe9bt --query '{Parts: Parts[*].{PartNumber: PartNumber, ETag: ETag}}' --output json > 50MB.json

```

deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws

```

$ cat 50MB.json
{
    "Parts": [
        {
            "PartNumber": 1,
            "ETag": "\\"b92552cdffcelffc196e544ffff5803a81\\"
        },
        {
            "PartNumber": 2,
            "ETag": "\\"bc8747816b09d3150047d79c872e2476\\"
        },
        {
            "PartNumber": 3,
            "ETag": "\\"c8c7015fbefda77041b46777a336f77a\\"
        },
        {
            "PartNumber": 4,
            "ETag": "\\"678353711983610633ec6fd26c7acd5d\\"
        },
        {
            "PartNumber": 5,
            "ETag": "\\"92d863620b45cd144d0086ad0316b260\\"
        }
    ]
}

```

```

Windows PowerShell MINGW64/d/aws
$ aws s3api list-parts --bucket multipart-bucket-191 --key 50MB.zip --upload-id teBnZRF.W1Xq_4GV0hGlZAJ9JosBWrdt6DiTj8pURjXez4pmvyAvjC05xXdsfAazq_a6pjel.EIc
NadII_qKCawkrbh4Hs5wZuR0VYYyYXqFrwVTFDnnapp0FxLe9bt --query '{Parts: Parts[*].{PartNumber: PartNumber, ETag: ETag}}' --output json > 50MB.json

```

deshm@LAPTOP-GUBJ3GL3 MINGW64 /d/aws

```

$ aws s3api complete-multipart-upload --multipart-upload file://50MB.json --bucket multipart-bucket-191 --key 50MB.zip --upload-id teBnZRF.W1Xq_4GV0hGlZAJ9J
osBWrdt6DiTj8pURjXez4pmvyAvjC05xXdsfAazq_a6pjel.EIcNadII_qKCawkrbh4Hs5wZuR0VYYyYXqFrwVTFDnnapp0FxLe9bt
{
    "ServerSideEncryption": "AES256",
    "Location": "https://multipart-bucket-191.s3.eu-north-1.amazonaws.com/50MB.zip",
    "Bucket": "multipart-bucket-191",
    "Key": "50MB.zip",
    "ETag": "\\"6258b195805dcbb813d84d62740a8b47-5\\",
    "ChecksumCRC64NVME": "CmW+50j1H+4=",
    "ChecksumType": "FULL_OBJECT"
}

```

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and account information (Account ID: 7725-4885-8659, Europe (Stockholm)). Below the navigation bar, the path 'Amazon S3 > Buckets > multipart-bucket-191' is visible. The main content area is titled 'multipart-bucket-191' with a 'Info' link. Below this, there are tabs for 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Objects' tab is selected, showing a list of objects. The list contains one item: '50MB.zip'. The details for this object are as follows:

Name	Type	Last modified	Size	Storage class
50MB.zip	zip	October 5, 2025, 19:09:41 (UTC+05:30)	50.0 MB	Standard

Below the object list, there are several actions buttons: Copy S3 URI, Copy URL, Download, Open, Delete, Actions (with a dropdown menu), Create folder, and Upload. A 'Find objects by prefix' input field is also present. At the bottom of the page, there are links for CloudShell, Feedback, and legal notices (© 2025, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, Cookie preferences).

```
deshm@LAPTOP-GUBJ3GL3 MINGW64 ~/d/aws
$ aws s3api list-multipart-uploads --bucket multipart-bucket-191
{
    "RequestCharged": null,
    "Prefix": null
}
```