Cycle 08 AWS Homework

1. AWS S3 Bucket Operations Using Boto3 (Python)

Create Bucket

```
python
CopyEdit
import boto3

s3 = boto3.client('s3')
bucket_name = 'your-unique-bucket-name-12345'

s3.create_bucket(
    Bucket=bucket_name,
    CreateBucketConfiguration={'LocationConstraint': 'ap-south-1'}
)
print(f"Bucket '{bucket_name}' created.")
```

List Buckets

```
python
CopyEdit
buckets = s3.list_buckets()
for bucket in buckets['Buckets']:
    print(bucket['Name'])
```

Upload File

```
python
CopyEdit
s3.upload_file('local_file.txt', bucket_name, 'uploaded_file.txt')
print("File uploaded.")
```

Download File

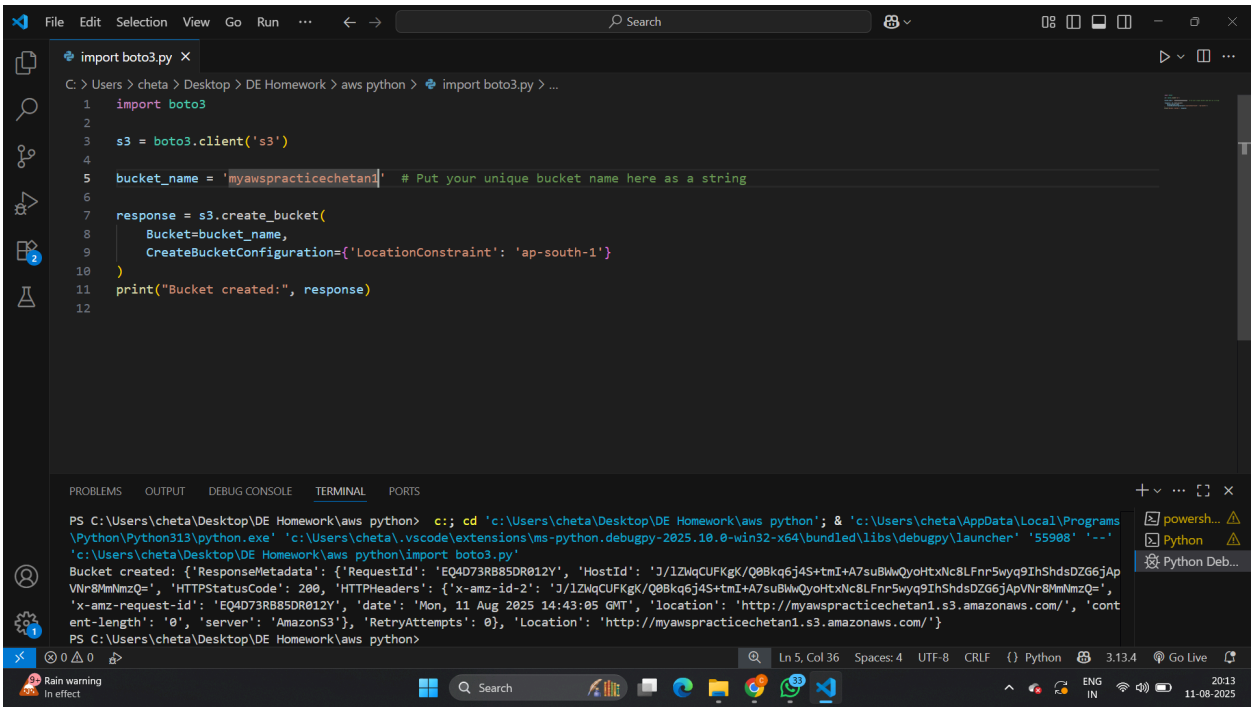
```
python
CopyEdit
s3.download_file(bucket_name, 'uploaded_file.txt', 'downloaded_file.txt')
print("File downloaded.")
```

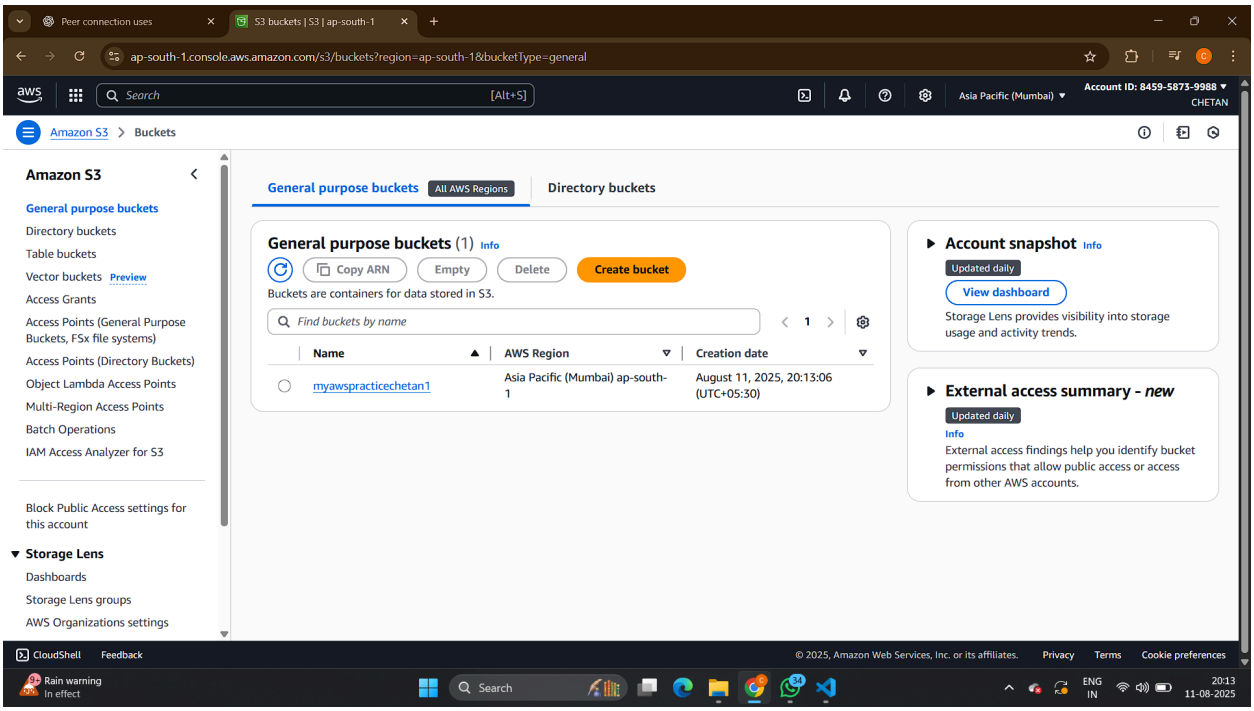
Delete Object

```
python
CopyEdit
s3.delete_object(Bucket=bucket_name, Key='uploaded_file.txt')
print("Object deleted.")
```

Delete Bucket (must be empty)

```
python
CopyEdit
s3.delete_bucket(Bucket=bucket_name)
print(f"Bucket '{bucket_name}' deleted.")
```


import boto3.py
import boto3
s3 = boto3.client('s3')
bucket_name = 'myawspracticechetan1' # Put your unique bucket name here as a string
response = s3.create_bucket(
Bucket=bucket_name,
CreateBucketConfiguration={'LocationConstraint': 'ap-south-1'}
)
print("Bucket created:", response)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
PS C:\Users\cheta\Desktop\DE Homework\aws python>
Bucket created: {'ResponseMetadata': {'RequestId': 'EQ4D73RB85DR012Y', 'HostId': 'J/lZWqCUFKgK/Q0Bkq6j4S+tmI+A7suBWwQyoHtxNc8LFnr5wyq9IhShdsDZG6jAp
'HTTPStatusCode': 200, 'HTTPHeaders': {'x-amz-id-2': 'J/lZWqCUFKgK/Q0Bkq6j4S+tmI+A7suBWwQyoHtxNc8LFnr5wyq9IhShdsDZG6jApVNr8MmNmzQ=',
'x-amz-request-id': 'EQ4D73RB85DR012Y', 'date': 'Mon, 11 Aug 2025 14:43:05 GMT', 'location': 'http://myawspracticechetan1.s3.amazonaws.com/', 'content-length': '0', 'server': 'AmazonS3'}, 'RetryAttempts': 0}, 'Location': 'http://myawspracticechetan1.s3.amazonaws.com/'}
PS C:\Users\cheta\Desktop\DE Homework\aws python>


ap-south-1.console.aws.amazon.com/s3/buckets?region=ap-south-1&bucketType=general
Amazon S3
Buckets
General purpose buckets
Directory buckets
Table buckets
Vector buckets
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
Access Points (Directory Buckets)
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
General purpose buckets (1) Info
Copy ARN
Empty
Delete
Create bucket
Buckets are containers for data stored in S3.
Find buckets by name
Name
AWS Region
Creation date
myawspracticechetan1
Asia Pacific (Mumbai) ap-south-1
August 11, 2025, 20:13:06 (UTC+05:30)
Account snapshot Info
Updated daily
View dashboard
Storage Lens provides visibility into storage usage and activity trends.
External access summary - new
Updated daily
External access findings help you identify bucket permissions that allow public access or access from other AWS accounts.
CloudShell
Feedback
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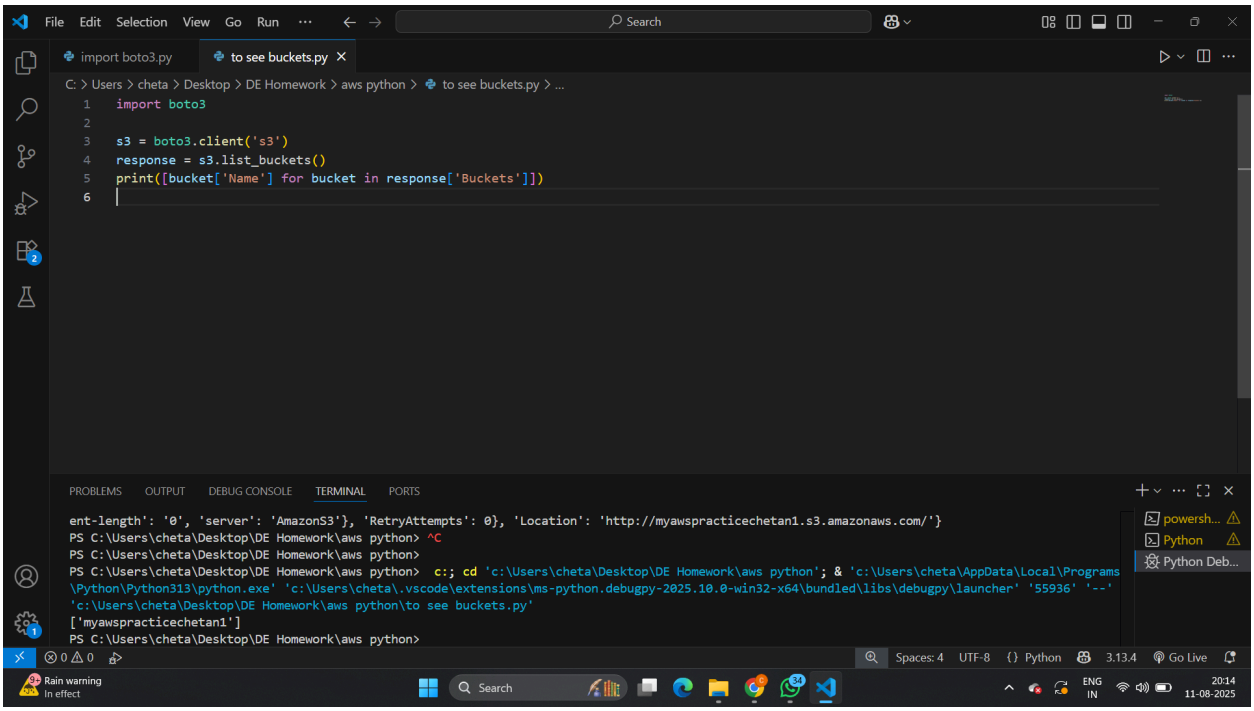
Terms
Cookie preferences


File Edit Selection View Go Run
import boto3.py
to see buckets.py
C: > Users > cheta > Desktop > DE Homework > aws python > to see buckets.py > ...
1 import boto3
2
3 s3 = boto3.client('s3')
4 response = s3.list_buckets()
5 print([bucket['Name'] for bucket in response['Buckets']])
6
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
ent-length': '0', 'server': 'AmazonS3'}, 'RetryAttempts': 0}, 'Location': 'http://myawspracticechetan1.s3.amazonaws.com/'}
PS C:\Users\cheta\Desktop\DE Homework\aws python> ^C
PS C:\Users\cheta\Desktop\DE Homework\aws python>
PS C:\Users\cheta\Desktop\DE Homework\aws python> c:; cd 'c:\Users\cheta\Desktop\DE Homework\aws python'; & 'c:\Users\cheta\AppData\Local\Programs
\Python\Python313\python.exe' 'c:\Users\cheta\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '55936' '--'
'c:\Users\cheta\Desktop\DE Homework\aws python\to see buckets.py'
['myawspracticechetan1']
PS C:\Users\cheta\Desktop\DE Homework\aws python>
powersh...
Python
Python Deb...
Spaces: 4 UTF-8 Python 3.13.4 Go Live
Rain warning
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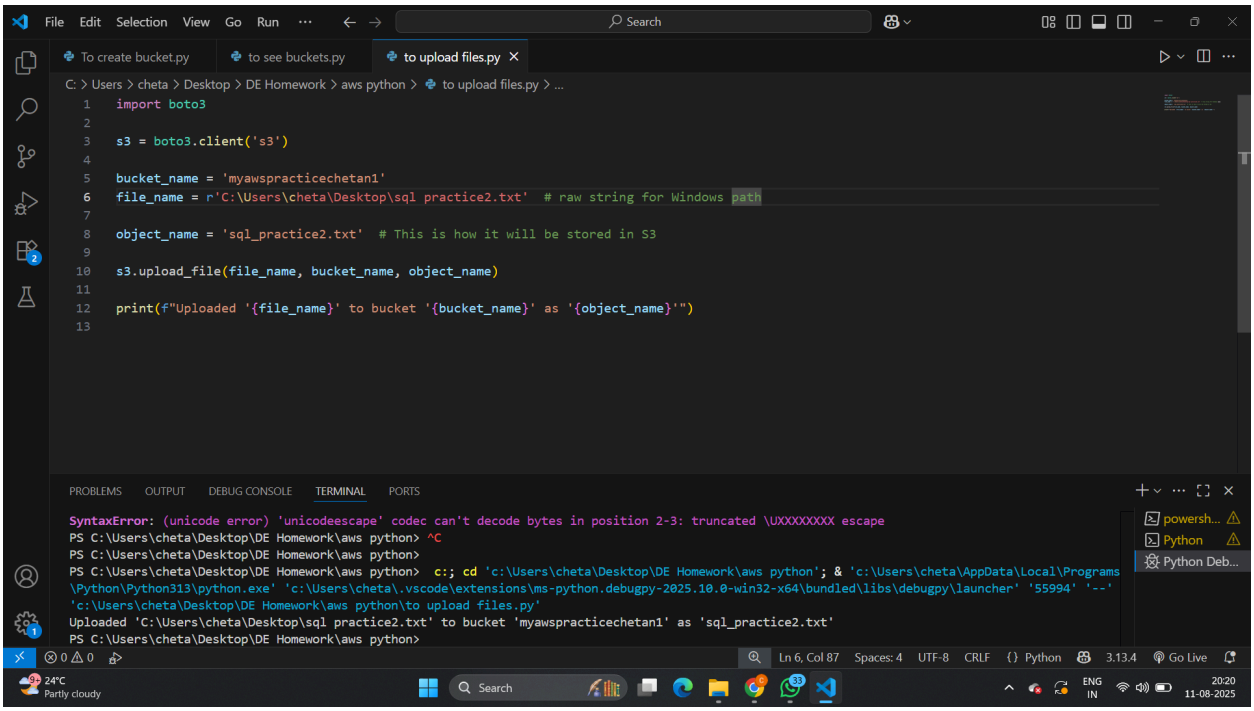
File Edit Selection View Go Run
To create bucket.py
to see buckets.py
to upload files.py
C: > Users > cheta > Desktop > DE Homework > aws python > to upload files.py > ...
1 import boto3
2
3 s3 = boto3.client('s3')
4
5 bucket_name = 'myawspracticechetan1'
6 file_name = r'C:\Users\cheta\Desktop\sql practice2.txt' # raw string for Windows path
7
8 object_name = 'sql_practice2.txt' # This is how it will be stored in S3
9
10 s3.upload_file(file_name, bucket_name, object_name)
11
12 print(f"Uploaded '{file_name}' to bucket '{bucket_name}' as '{object_name}'")
13
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
SyntaxError: (unicode error) 'unicodeescape' codec can't decode bytes in position 2-3: truncated \UXXXXXXXX escape
PS C:\Users\cheta\Desktop\DE Homework\aws python> ^C
PS C:\Users\cheta\Desktop\DE Homework\aws python>
PS C:\Users\cheta\Desktop\DE Homework\aws python> c:; cd 'c:\Users\cheta\Desktop\DE Homework\aws python'; & 'c:\Users\cheta\AppData\Local\Programs
\Python\Python313\python.exe' 'c:\Users\cheta\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '55994' '--'
'c:\Users\cheta\Desktop\DE Homework\aws python\to upload files.py'
Uploaded 'C:\Users\cheta\Desktop\sql practice2.txt' to bucket 'myawspracticechetan1' as 'sql_practice2.txt'
PS C:\Users\cheta\Desktop\DE Homework\aws python>
powersh...
Python
Python Deb...
Ln 6, Col 87 Spaces: 4 UTF-8 CRLF Python 3.13.4 Go Live
24°C
Partly cloudy
Search
ENG
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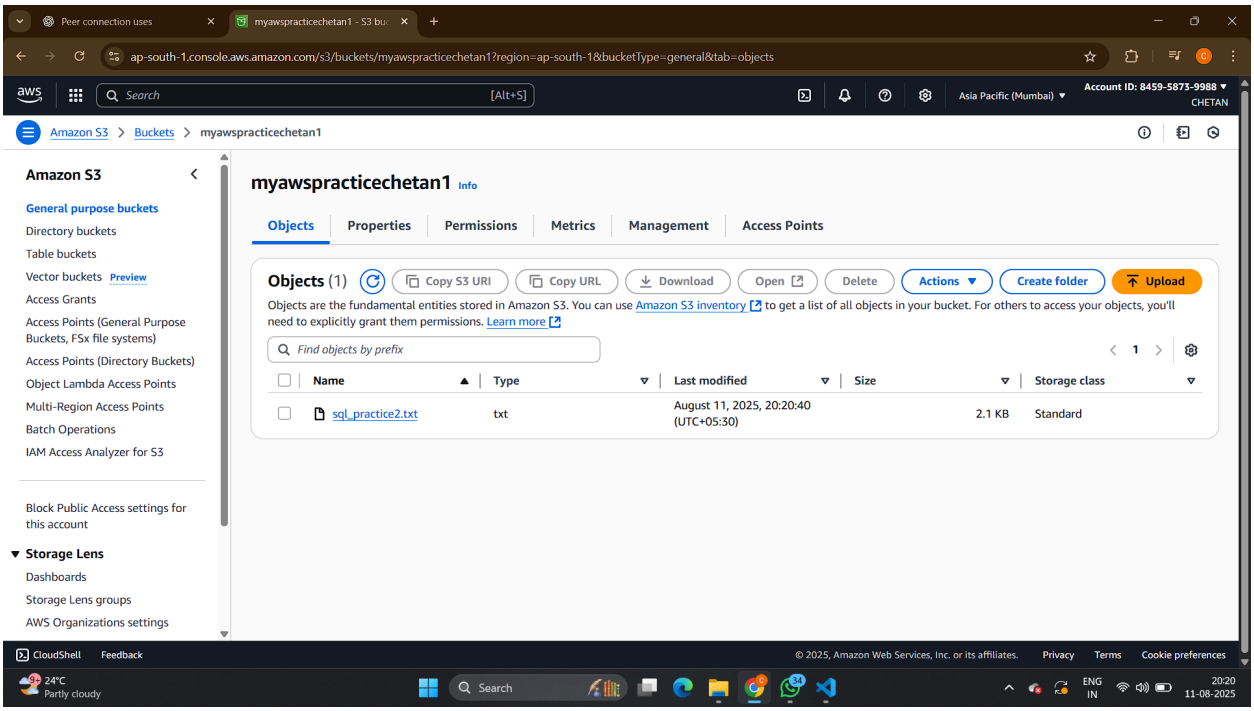
Peer connection uses
myawspracticechetan1 - S3 buc
ap-south-1.console.aws.amazon.com/s3/buckets/myawspracticechetan1?region=ap-south-1&bucketType=general&tab=objects
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
Amazon S3 > Buckets > myawspracticechetan1
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Vector buckets Preview
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
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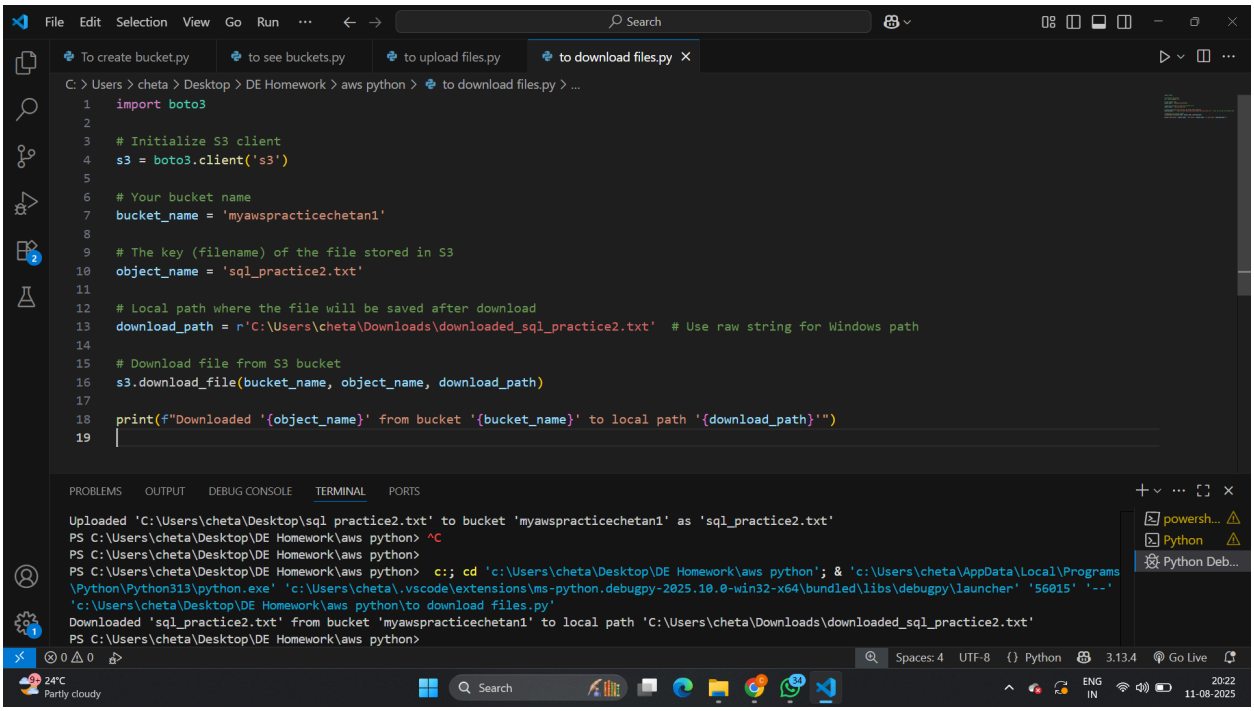
Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
myawspracticechetan1 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (1)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Objects are the fundamental entities stored in Amazon S3. 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
Name
Type
Last modified
Size
Storage class
sql_practice2.txt
txt
August 11, 2025, 20:20:40 (UTC+05:30)
2.1 KB
Standard
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
24°C
Partly cloudy
Search
ENG IN
20:20
11-08-2025


File Edit Selection View Go Run
Search
to create bucket.py
to see buckets.py
to upload files.py
to download files.py
C: > Users > cheta > Desktop > DE Homework > aws python > to download files.py > ...
import boto3
# Initialize S3 client
s3 = boto3.client('s3')
# Your bucket name
bucket_name = 'myawspracticechetan1'
# The key (filename) of the file stored in S3
object_name = 'sql_practice2.txt'
# Local path where the file will be saved after download
download_path = r'C:\Users\cheta\Downloads\downloaded_sql_practice2.txt' # Use raw string for Windows path
# Download file from S3 bucket
s3.download_file(bucket_name, object_name, download_path)
print(f"Downloaded '{object_name}' from bucket '{bucket_name}' to local path '{download_path}'")
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Uploaded 'C:\Users\cheta\Desktop\sql practice2.txt' to bucket 'myawspracticechetan1' as 'sql_practice2.txt'
PS C:\Users\cheta\Desktop\DE Homework\aws python> ^C
PS C:\Users\cheta\Desktop\DE Homework\aws python>
PS C:\Users\cheta\Desktop\DE Homework\aws python> c:; cd 'c:\Users\cheta\Desktop\DE Homework\aws python'; & 'c:\Users\cheta\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\cheta\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '56015' '--' 'c:\Users\cheta\Desktop\DE Homework\aws python\to download files.py'
Downloaded 'sql_practice2.txt' from bucket 'myawspracticechetan1' to local path 'C:\Users\cheta\Downloads\downloaded_sql_practice2.txt'
PS C:\Users\cheta\Desktop\DE Homework\aws python>
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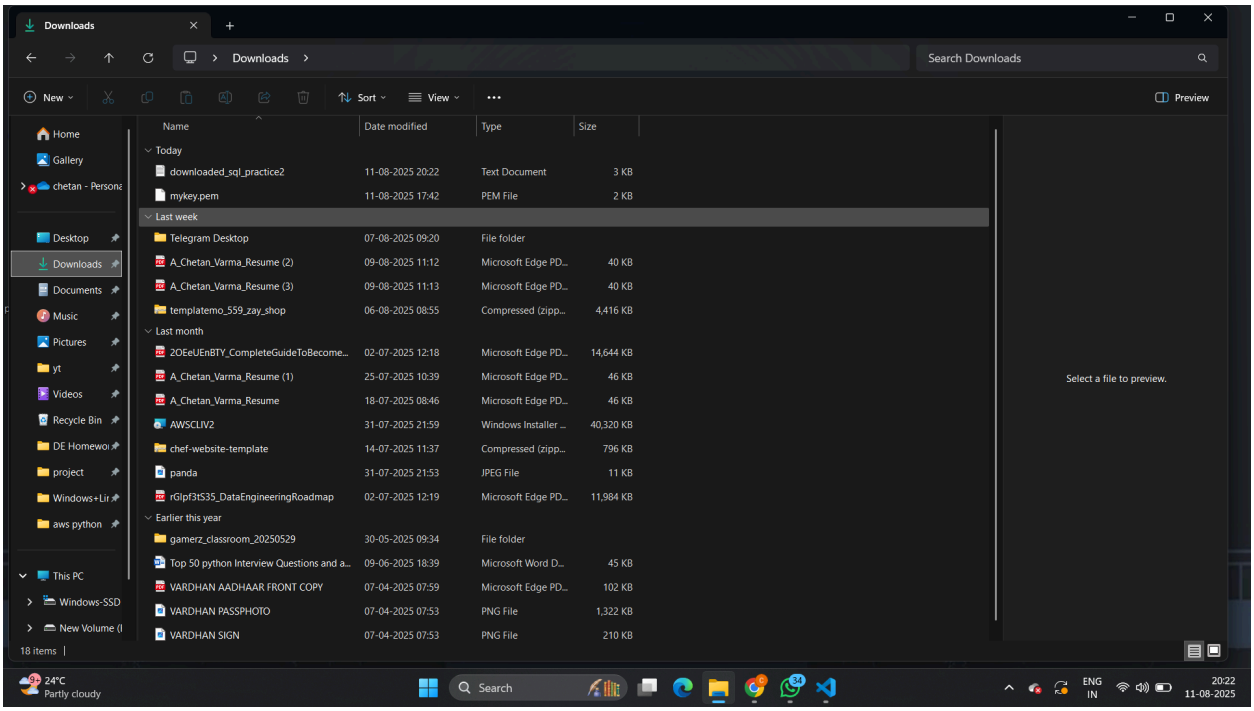
Downloads
Search Downloads
New
Sort
View
Preview
Name
Date modified
Type
Size
Today
downloaded_sql_practice2 11-08-2025 20:22 Text Document 3 KB
mykey.pem 11-08-2025 17:42 PEM File 2 KB
Last week
Telegram Desktop 07-08-2025 09:20 File folder
A_Chetan_Varma_Resume (2) 09-08-2025 11:12 Microsoft Edge PD... 40 KB
A_Chetan_Varma_Resume (3) 09-08-2025 11:13 Microsoft Edge PD... 40 KB
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Last month
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A_Chetan_Varma_Resume (1) 25-07-2025 10:39 Microsoft Edge PD... 46 KB
A_Chetan_Varma_Resume 18-07-2025 08:46 Microsoft Edge PD... 46 KB
AWSCLIV2 31-07-2025 21:59 Windows Installer ... 40,320 KB
chef-website-template 14-07-2025 11:37 Compressed (zipp... 796 KB
panda 31-07-2025 21:53 JPEG File 11 KB
rGlpf3tS35_DataEngineeringRoadmap 02-07-2025 12:19 Microsoft Edge PD... 11,984 KB
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Top 50 python Interview Questions and a... 09-06-2025 18:39 Microsoft Word D... 45 KB
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18 items
Home
Gallery
Desktop
Downloads
Documents
Music
Pictures
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Videos
Recycle Bin
project
aws python
This PC
Windows-SSD
24°C
Partly cloudy
Search
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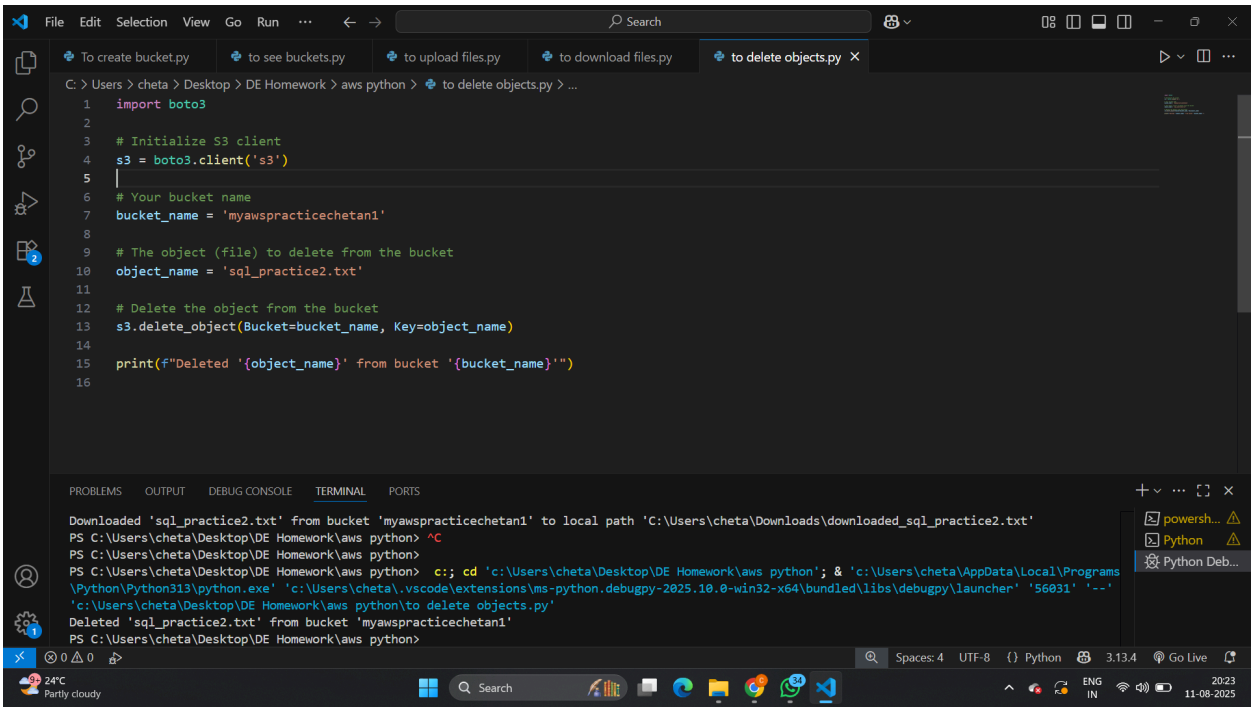
File Edit Selection View Go Run
Search
to create bucket.py
to see buckets.py
to upload files.py
to download files.py
to delete objects.py
C: > Users > cheta > Desktop > DE Homework > aws python > to delete objects.py > ...
import boto3
# Initialize S3 client
s3 = boto3.client('s3')
# Your bucket name
bucket_name = 'myawspracticechetan1'
# The object (file) to delete from the bucket
object_name = 'sql_practice2.txt'
# Delete the object from the bucket
s3.delete_object(Bucket=bucket_name, Key=object_name)
print(f"Deleted '{object_name}' from bucket '{bucket_name}'")
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Downloaded 'sql_practice2.txt' from bucket 'myawspracticechetan1' to local path 'C:\Users\cheta\Downloads\downloaded_sql_practice2.txt'
PS C:\Users\cheta\Desktop\DE Homework\aws python> ^C
PS C:\Users\cheta\Desktop\DE Homework\aws python>
PS C:\Users\cheta\Desktop\DE Homework\aws python> c:; cd 'c:\Users\cheta\Desktop\DE Homework\aws python'; & 'c:\Users\cheta\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\cheta\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '56031' '--' 'c:\Users\cheta\Desktop\DE Homework\aws python\to delete objects.py'
Deleted 'sql_practice2.txt' from bucket 'myawspracticechetan1'
PS C:\Users\cheta\Desktop\DE Homework\aws python>
powersh...
Python
Python Deb...
Spaces: 4 UTF-8 {} Python 3.13.4 Go Live
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Partly cloudy
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ENG
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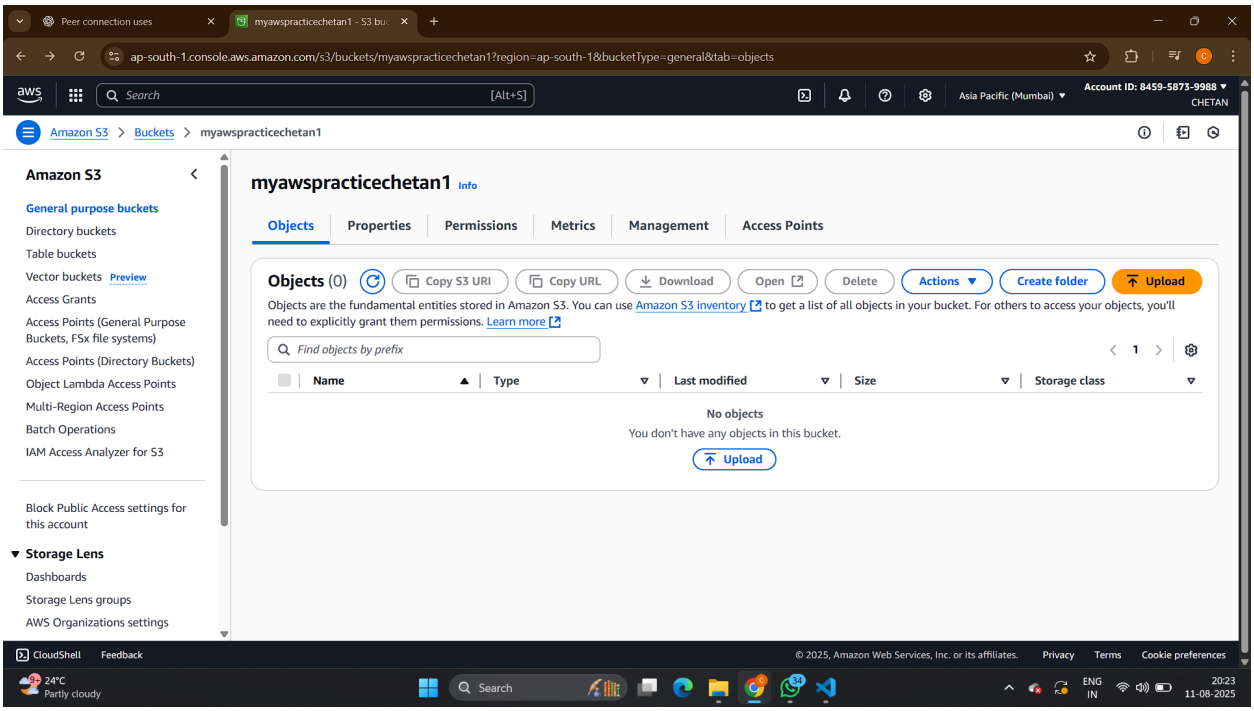
11-08-2025


Peer connection uses
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ap-south-1.console.aws.amazon.com/s3/buckets/myawspracticechetan1?region=ap-south-1&bucketType=general&tab=objects
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
Amazon S3 > Buckets > myawspracticechetan1
Amazon S3
General purpose buckets
Directory buckets
Table buckets
Vector buckets Preview
Access Grants
Access Points (General Purpose Buckets, FSx file systems)
Access Points (Directory Buckets)
Object Lambda Access Points
Multi-Region Access Points
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IAM Access Analyzer for S3
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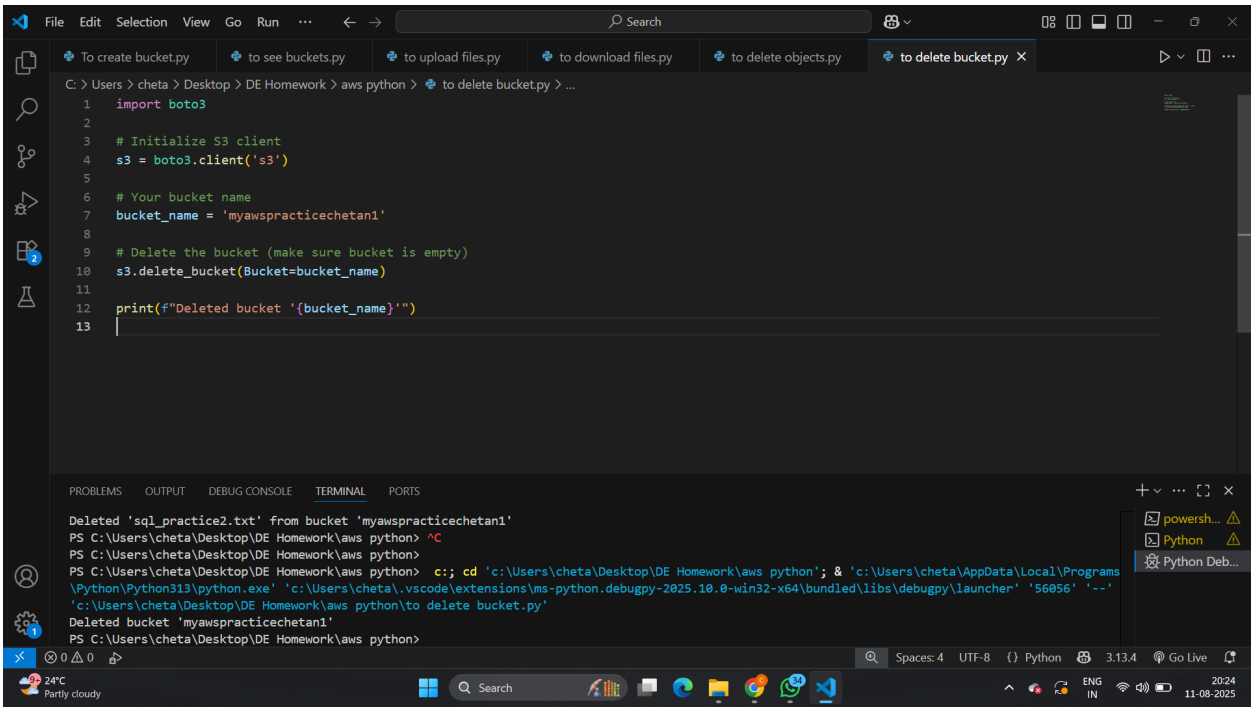
Storage Lens
Dashboards
Storage Lens groups
AWS Organizations settings
myawspracticechetan1 Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (0)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Objects are the fundamental entities stored in Amazon S3. 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
Name
Type
Last modified
Size
Storage class
No objects
You don't have any objects in this bucket.
Upload
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
24°C
Partly cloudy
Search
ENG
IN
20:23
11-08-2025


File Edit Selection View Go Run
Search
to create bucket.py
to see buckets.py
to upload files.py
to download files.py
to delete objects.py
to delete bucket.py
C: > Users > cheta > Desktop > DE Homework > aws python > to delete bucket.py > ...
import boto3
# Initialize S3 client
s3 = boto3.client('s3')
# Your bucket name
bucket_name = 'myawspracticechetan1'
# Delete the bucket (make sure bucket is empty)
s3.delete_bucket(Bucket=bucket_name)
print(f"Deleted bucket '{bucket_name}'")
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Deleted 'sql_practice2.txt' from bucket 'myawspracticechetan1'
PS C:\Users\cheta\Desktop\DE Homework\aws python> ^C
PS C:\Users\cheta\Desktop\DE Homework\aws python>
PS C:\Users\cheta\Desktop\DE Homework\aws python> c:; cd 'c:\Users\cheta\Desktop\DE Homework\aws python'; & 'c:\Users\cheta\AppData\Local\Programs\Python\Python313\python.exe' 'c:\Users\cheta\.vscode\extensions\ms-python.debugpy-2025.10.0-win32-x64\bundled\libs\debugpy\launcher' '56056' '--' 'c:\Users\cheta\Desktop\DE Homework\aws python\to delete bucket.py'
Deleted bucket 'myawspracticechetan1'
PS C:\Users\cheta\Desktop\DE Homework\aws python>
powersh...
Python
Python Deb...
Spaces: 4
UTF-8
Python
3.13.4
Go Live
24°C
Partly cloudy
Search
ENG
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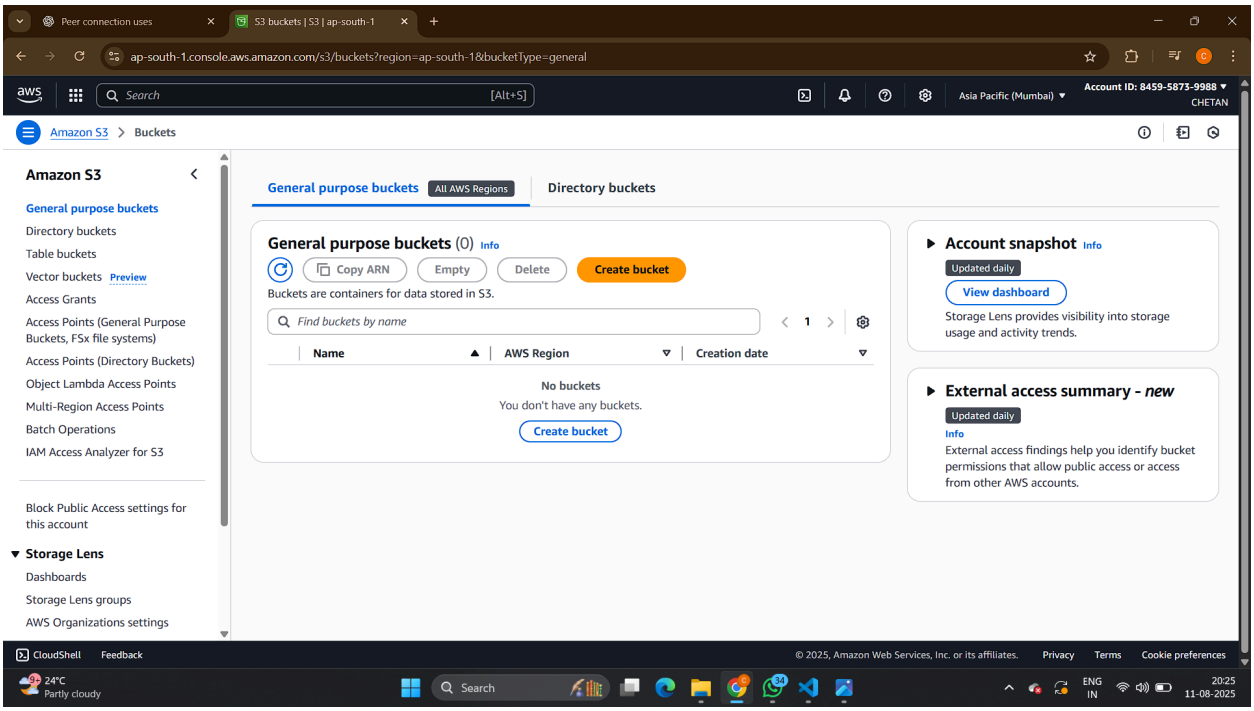
20:24
11-08-2025



2. Recursive vs. Force Deletion in S3 (AWS CLI)

Recursive Delete (objects only)

bash
CopyEdit
aws s3 rm s3://your-unique-bucket-name-12345 --recursive

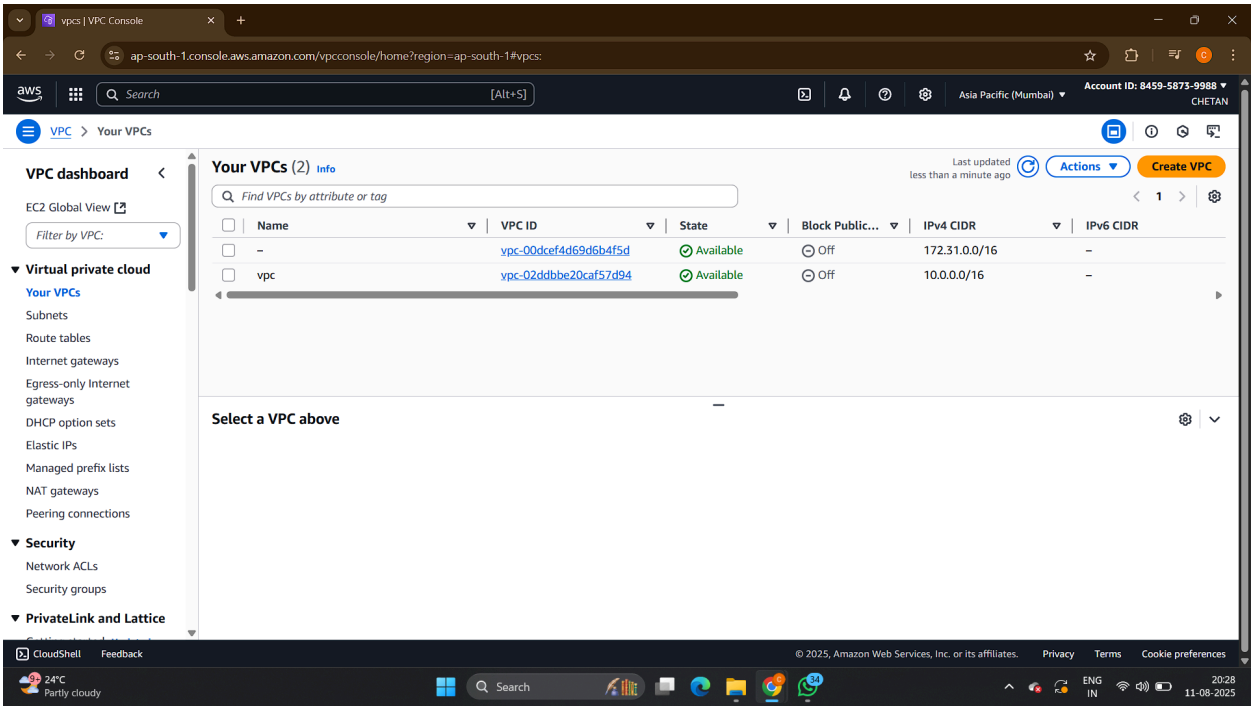
Force Delete Bucket (objects + bucket)

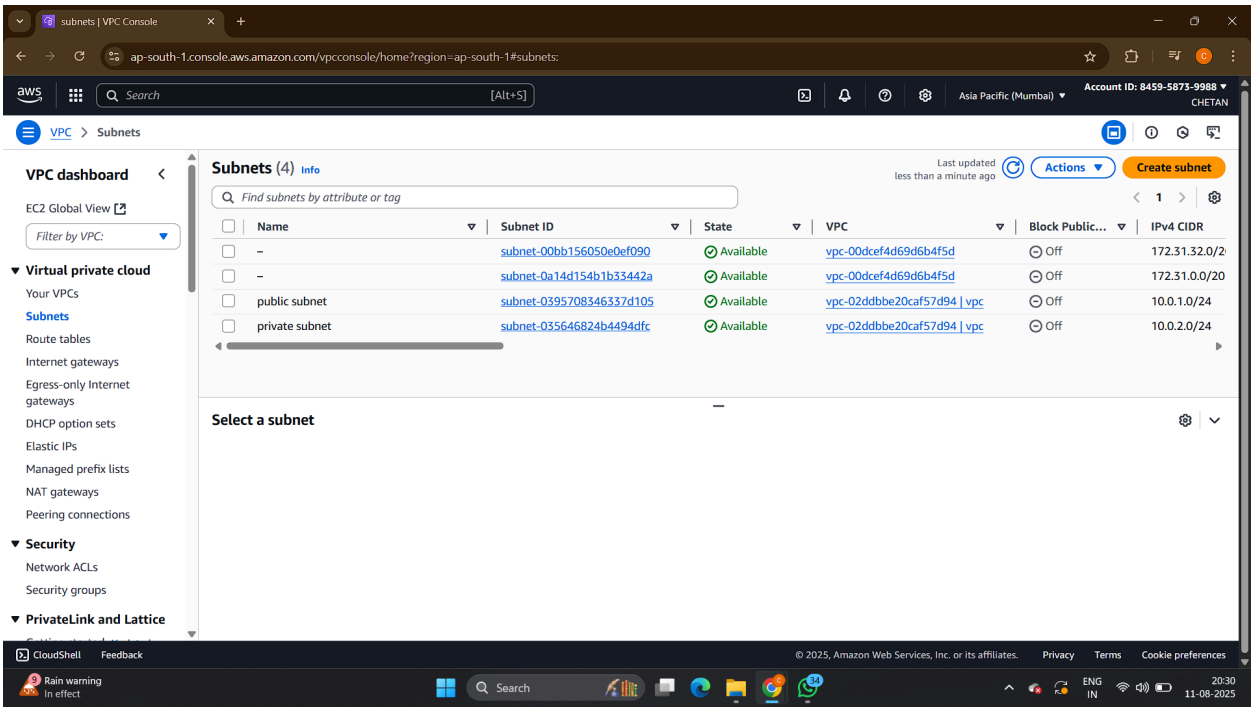
bash
CopyEdit
aws s3 rb s3://your-unique-bucket-name-12345 --force

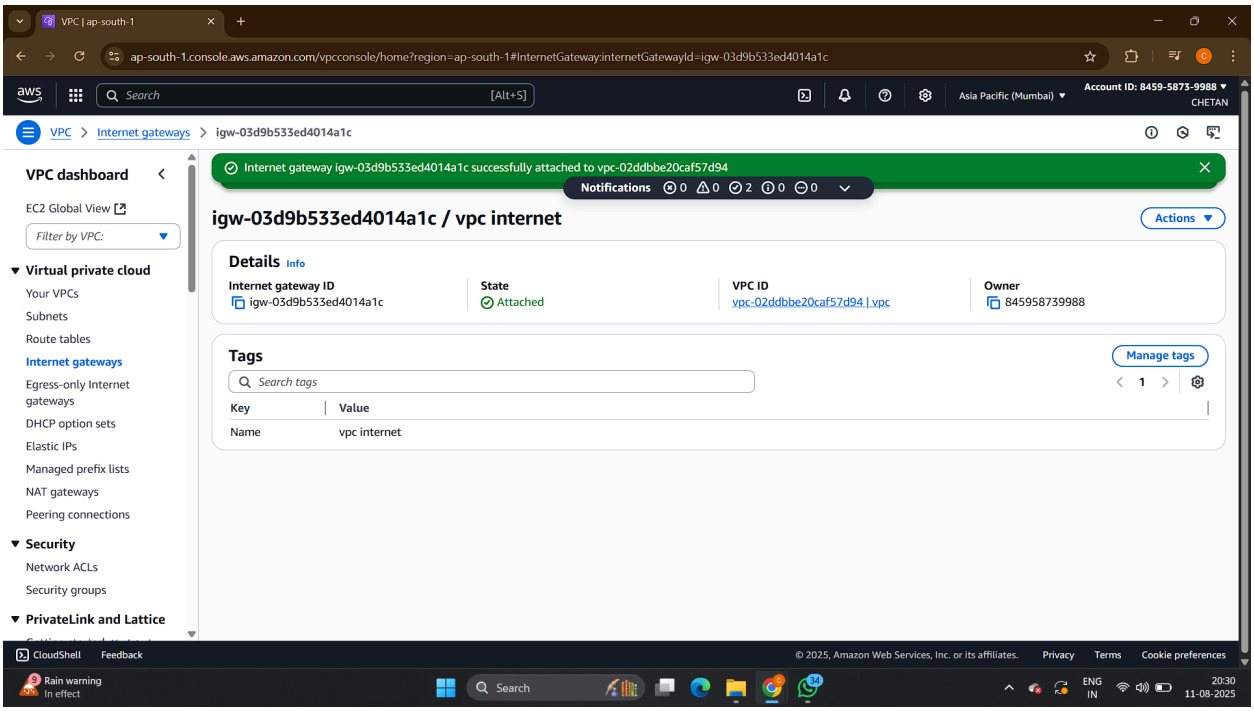
3. Connect Public & Private Windows Instances (No direct CLI command)

Setup security groups:

- Public instance SG inbound: allow RDP (3389) from your IP
- Private instance SG inbound: allow RDP (3389) from public subnet CIDR (e.g., 10.0.1.0/24)




subnets | VPC Console
ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#subnets:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
VPC > Subnets
VPC dashboard
EC2 Global View
Filter by VPC:
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only Internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Security
Network ACLs
Security groups
PrivateLink and Lattice
Subnets (4) Info
Last updated less than a minute ago
Actions
Create subnet
Find subnets by attribute or tag
Name
Subnet ID
State
VPC
Block Public...
IPv4 CIDR
– subnet-00bb156050e0ef090 Available vpc-00dcef4d69d6b4f5d Off 172.31.32.0/2
– subnet-0a14d154b1b33442a Available vpc-00dcef4d69d6b4f5d Off 172.31.0.0/20
public subnet subnet-0395708346337d105 Available vpc-02ddbbe20caf57d94 | vpc Off 10.0.1.0/24
private subnet subnet-035646824b4494dfc Available vpc-02ddbbe20caf57d94 | vpc Off 10.0.2.0/24
Select a subnet
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Rain warning In effect
Search
ENG IN
20:30 11-08-2025


VPC | ap-south-1
ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#InternetGateway:internetGatewayId=igw-03d9b533ed4014a1c
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
VPC > Internet gateways > igw-03d9b533ed4014a1c
VPC dashboard
EC2 Global View
Filter by VPC:
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only Internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Security
Network ACLs
Security groups
PrivateLink and Lattice
Internet gateway igw-03d9b533ed4014a1c successfully attached to vpc-02ddbbe20caf57d94
Notifications 0 0 2 0 0
igw-03d9b533ed4014a1c / vpc internet
Actions
Details Info
Internet gateway ID igw-03d9b533ed4014a1c
State Attached
VPC ID vpc-02ddbbe20caf57d94 | vpc
Owner 845958739988
Tags
Manage tags
Search tags
Key
Value
Name vpc internet
CloudShell
Feedback
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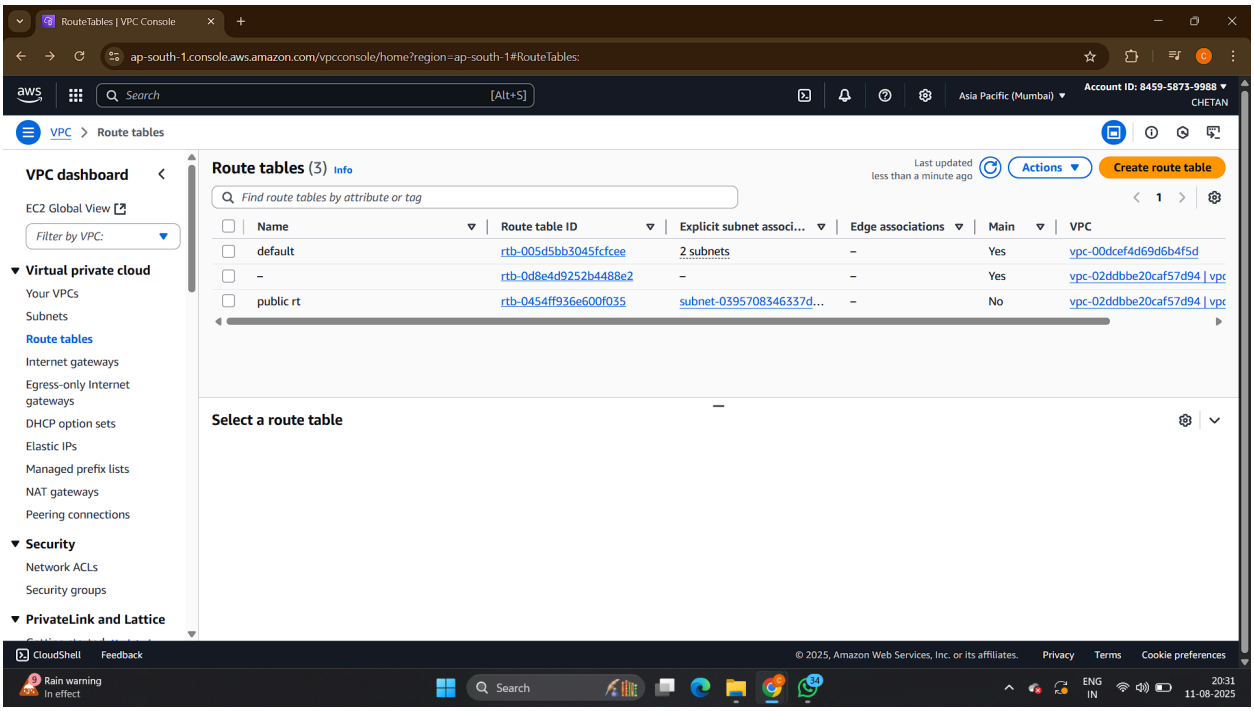
Rain warning In effect
Search
ENG IN
20:30 11-08-2025


RouteTables | VPC Console
ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTables:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
VPC > Route tables
VPC dashboard
EC2 Global View
Filter by VPC:
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only Internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Security
Network ACLs
Security groups
PrivateLink and Lattice
Route tables (3) Info
Last updated less than a minute ago
Actions
Create route table
Find route tables by attribute or tag
Name
Route table ID
Explicit subnet associ...
Edge associations
Main
VPC
default
rtb-005d5bb3045fcfcee
2 subnets
–
Yes
vpc-00dcef4d69d6b4f5d
–
rtb-0d8e4d9252b4488e2
–
–
Yes
vpc-02ddbbe20caf57d94 | vpc
public rt
rtb-0454ff936e600f035
subnet-0395708346337d...
–
No
vpc-02ddbbe20caf57d94 | vpc
Select a route table
CloudShell
Feedback
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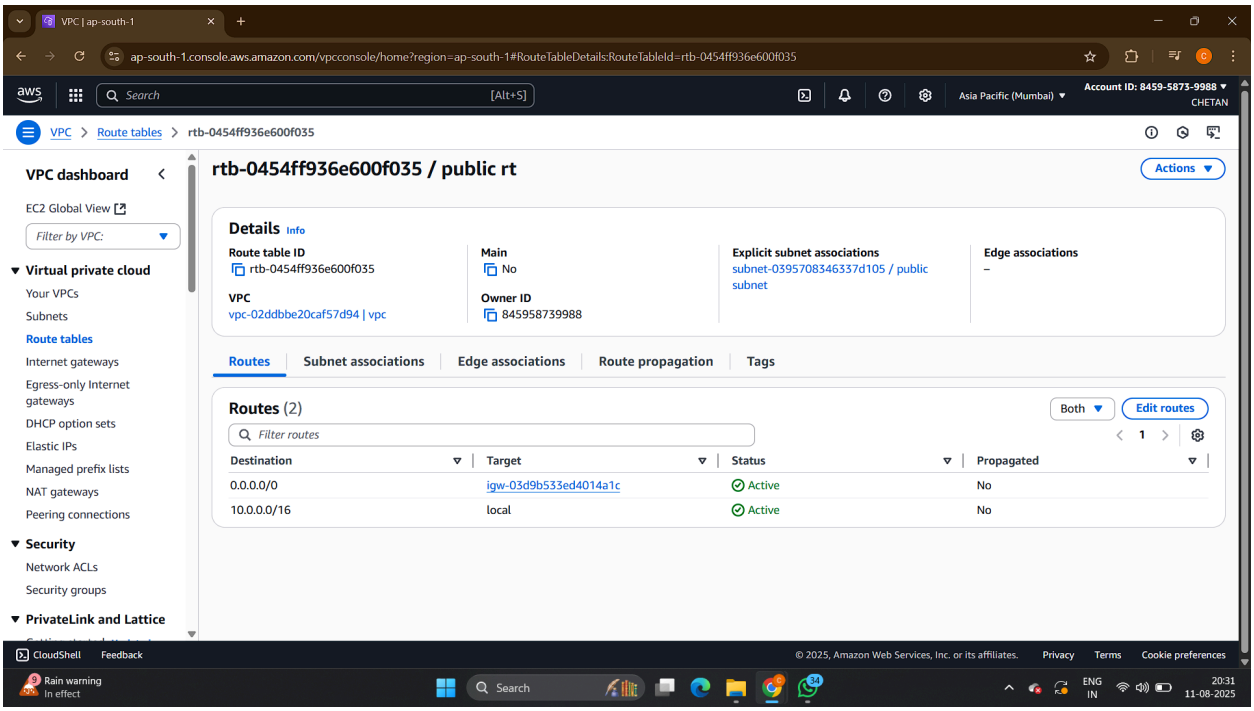
Rain warning
In effect
Search
ENG
IN
20:31
11-08-2025


VPC | ap-south-1
ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTableDetails:RouteTableId=rtb-0454ff936e600f035
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
VPC > Route tables > rtb-0454ff936e600f035
VPC dashboard
EC2 Global View
Filter by VPC:
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only Internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Security
Network ACLs
Security groups
PrivateLink and Lattice
rtb-0454ff936e600f035 / public rt
Actions
Details Info
Route table ID
rtb-0454ff936e600f035
Main
No
Explicit subnet associations
subnet-0395708346337d105 / public subnet
Edge associations
–
VPC
vpc-02ddbbe20caf57d94 | vpc
Owner ID
845958739988
Routes
Subnet associations
Edge associations
Route propagation
Tags
Routes (2)
Both
Edit routes
Filter routes
Destination
Target
Status
Propagated
0.0.0.0/0
igw-03d9b533ed4014a1c
Active
No
10.0.0.0/16
local
Active
No
CloudShell
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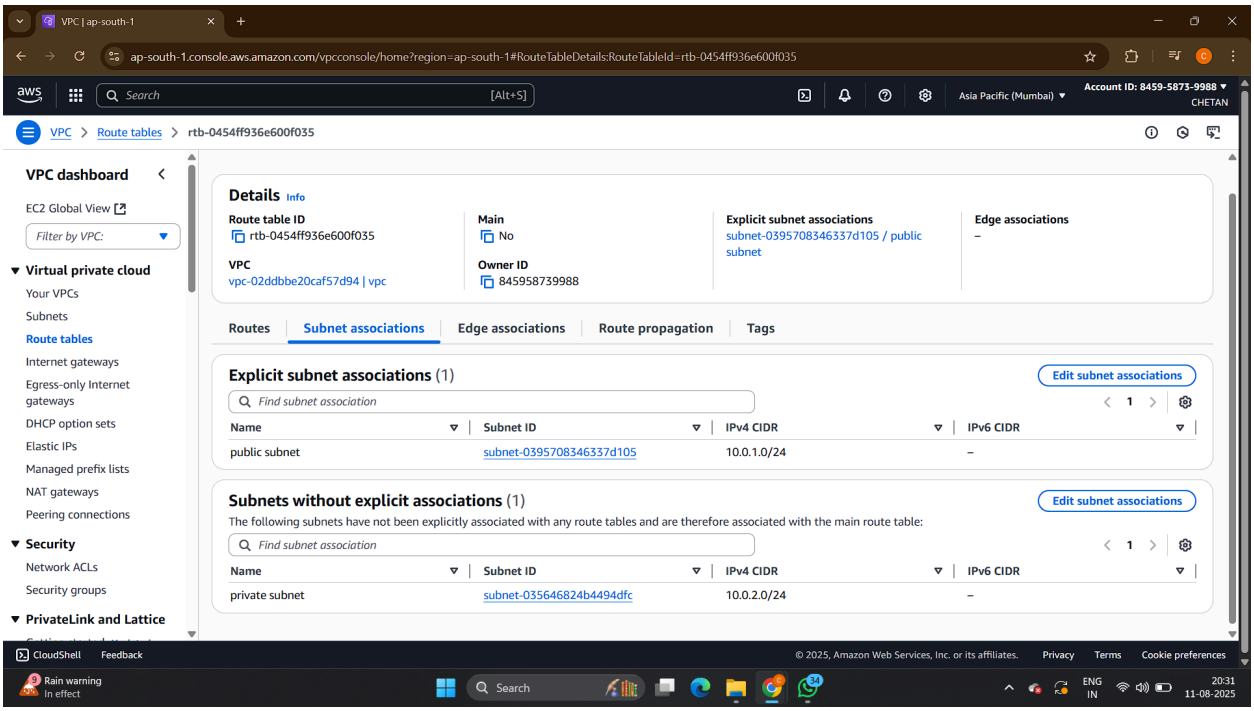
Rain warning
In effect
Search
ENG
IN
20:31
11-08-2025


VPC | ap-south-1
ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTableDetails:RouteTableId=rtb-0454ff936e600f035
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
VPC > Route tables > rtb-0454ff936e600f035
VPC dashboard
EC2 Global View
Filter by VPC:
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only Internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Security
Network ACLs
Security groups
PrivateLink and Lattice
Details Info
Route table ID
rtb-0454ff936e600f035
Main
No
Explicit subnet associations
subnet-0395708346337d105 / public subnet
Edge associations
–
VPC
vpc-02ddbbe20caf57d94 | vpc
Owner ID
845958739988
Routes
Subnet associations
Edge associations
Route propagation
Tags
Explicit subnet associations (1)
Edit subnet associations
Find subnet association
Name
Subnet ID
IPv4 CIDR
IPv6 CIDR
public subnet
subnet-0395708346337d105
10.0.1.0/24
–
Subnets without explicit associations (1)
Edit subnet associations
The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:
Find subnet association
Name
Subnet ID
IPv4 CIDR
IPv6 CIDR
private subnet
subnet-035646824b4494dfc
10.0.2.0/24
–
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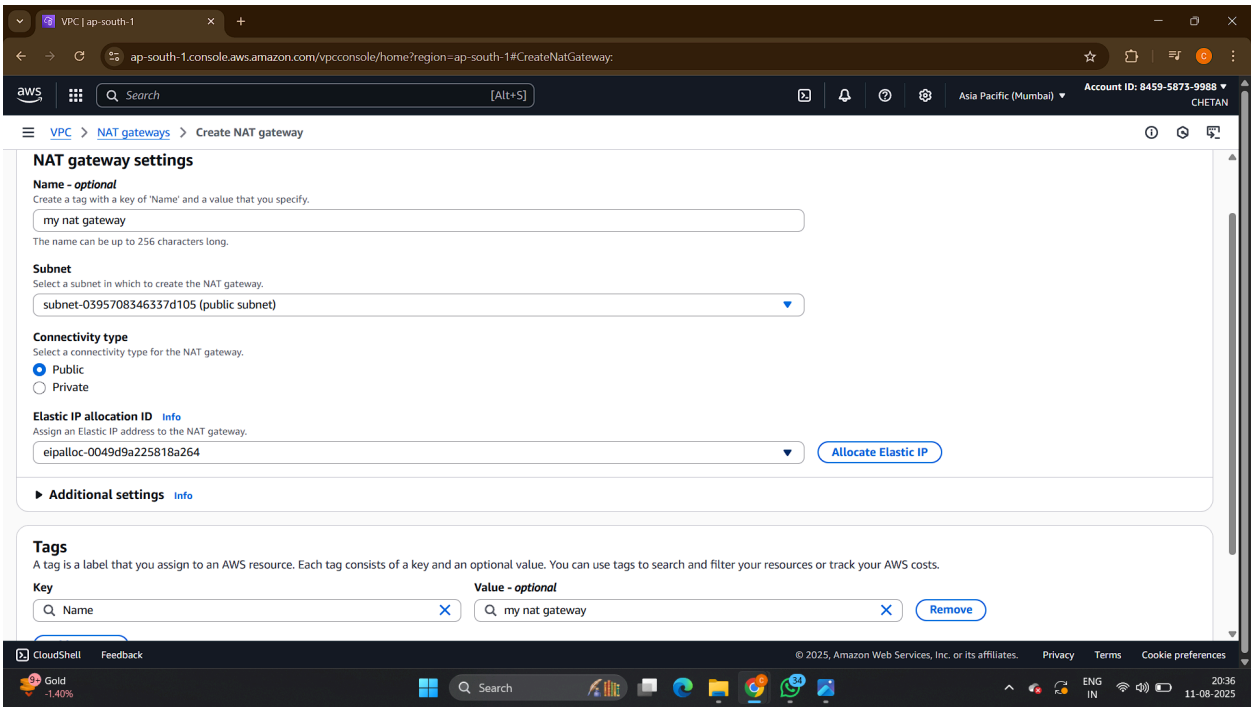
VPC | ap-south-1
ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#CreateNatGateway:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
VPC > NAT gateways > Create NAT gateway
NAT gateway settings
Name - optional
Create a tag with a key of 'Name' and a value that you specify.
my nat gateway
The name can be up to 256 characters long.
Subnet
Select a subnet in which to create the NAT gateway.
subnet-0395708346337d105 (public subnet)
Connectivity type
Select a connectivity type for the NAT gateway.
Public
Private
Elastic IP allocation ID Info
Assign an Elastic IP address to the NAT gateway.
eipalloc-0049d9a225818a264
Allocate Elastic IP
Additional settings Info
Tags
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.
Key
Name
Value - optional
my nat gateway
Remove
CloudShell
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Gold
-1.40%
Search
ENG
IN
20:36
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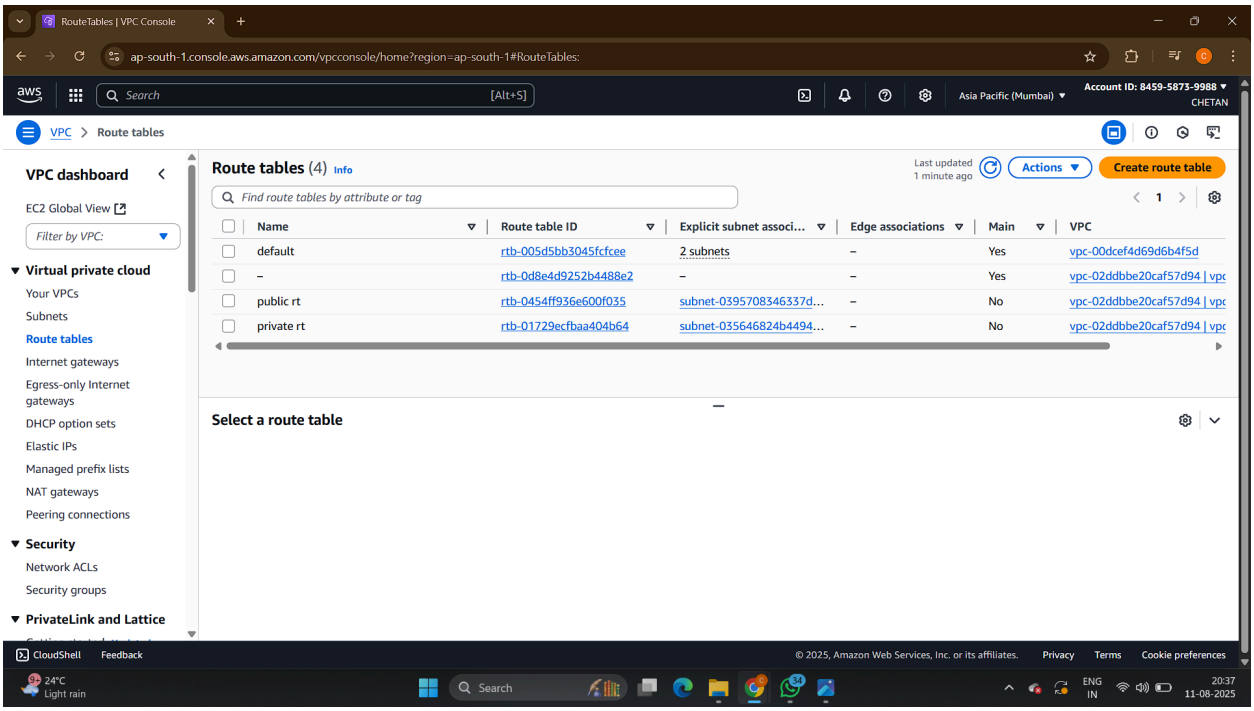
RouteTables | VPC Console
ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTables:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
VPC > Route tables
VPC dashboard
EC2 Global View
Filter by VPC:
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only Internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Security
Network ACLs
Security groups
PrivateLink and Lattice
Route tables (4) Info
Last updated 1 minute ago
Actions
Create route table
Find route tables by attribute or tag
Name
Route table ID
Explicit subnet associ...
Edge associations
Main
VPC
default rtb-005d5bb3045fcfcee 2 subnets – Yes vpc-00dcef4d69d6b4f5d
– rtb-0d8e4d9252b4488e2 – – Yes vpc-02ddbbe20caf57d94 | vpc
public rt rtb-0454ff936e600f035 subnet-0395708346337d... – No vpc-02ddbbe20caf57d94 | vpc
private rt rtb-01729ecfbaa404b64 subnet-035646824b4494... – No vpc-02ddbbe20caf57d94 | vpc
Select a route table
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Search
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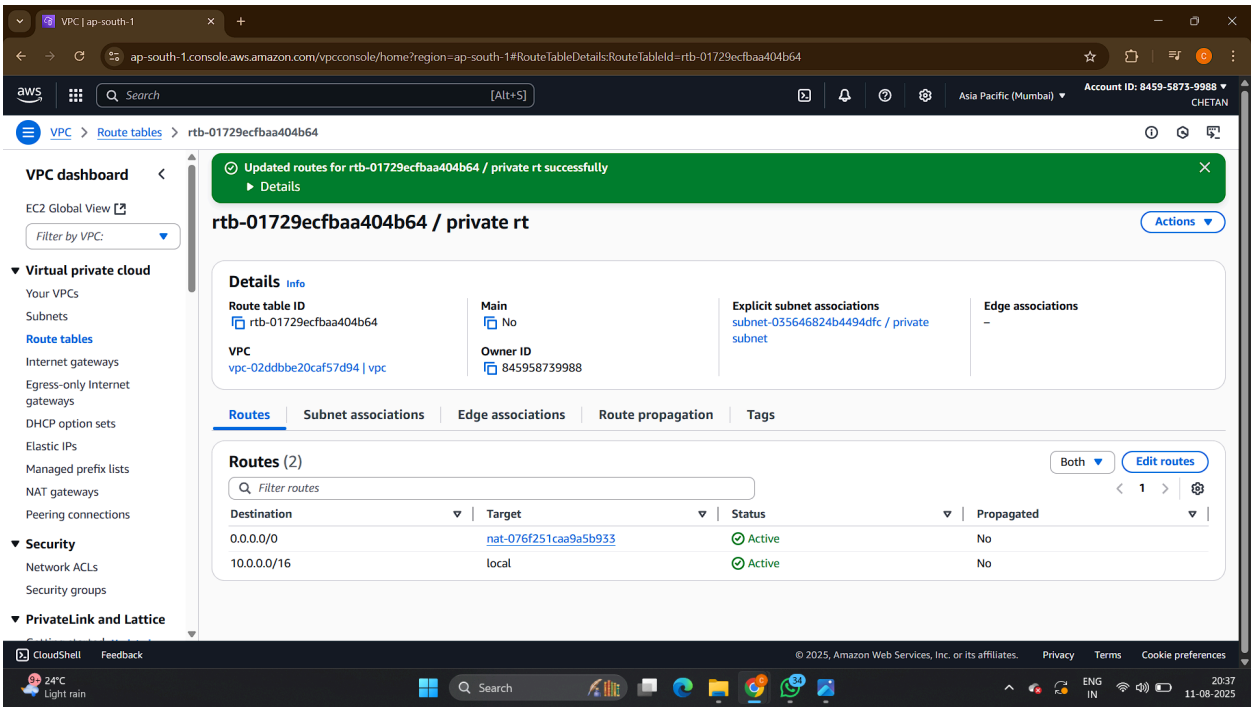
20:37 11-08-2025


VPC | ap-south-1
ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTableDetails:RouteTableId=rtb-01729ecfbaa404b64
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
VPC > Route tables > rtb-01729ecfbaa404b64
VPC dashboard
EC2 Global View
Filter by VPC:
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only Internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Security
Network ACLs
Security groups
PrivateLink and Lattice
Updated routes for rtb-01729ecfbaa404b64 / private rt successfully
Details
rtb-01729ecfbaa404b64 / private rt
Actions
Details Info
Route table ID
rtb-01729ecfbaa404b64
Main
No
Explicit subnet associations
subnet-035646824b4494dfc / private subnet
Edge associations
–
VPC
vpc-02ddbbe20caf57d94 | vpc
Owner ID
845958739988
Routes
Subnet associations
Edge associations
Route propagation
Tags
Routes (2)
Both
Edit routes
Filter routes
Destination
Target
Status
Propagated
0.0.0.0/0 nat-076f251caa9a5b933 Active No
10.0.0.0/16 local Active No
CloudShell
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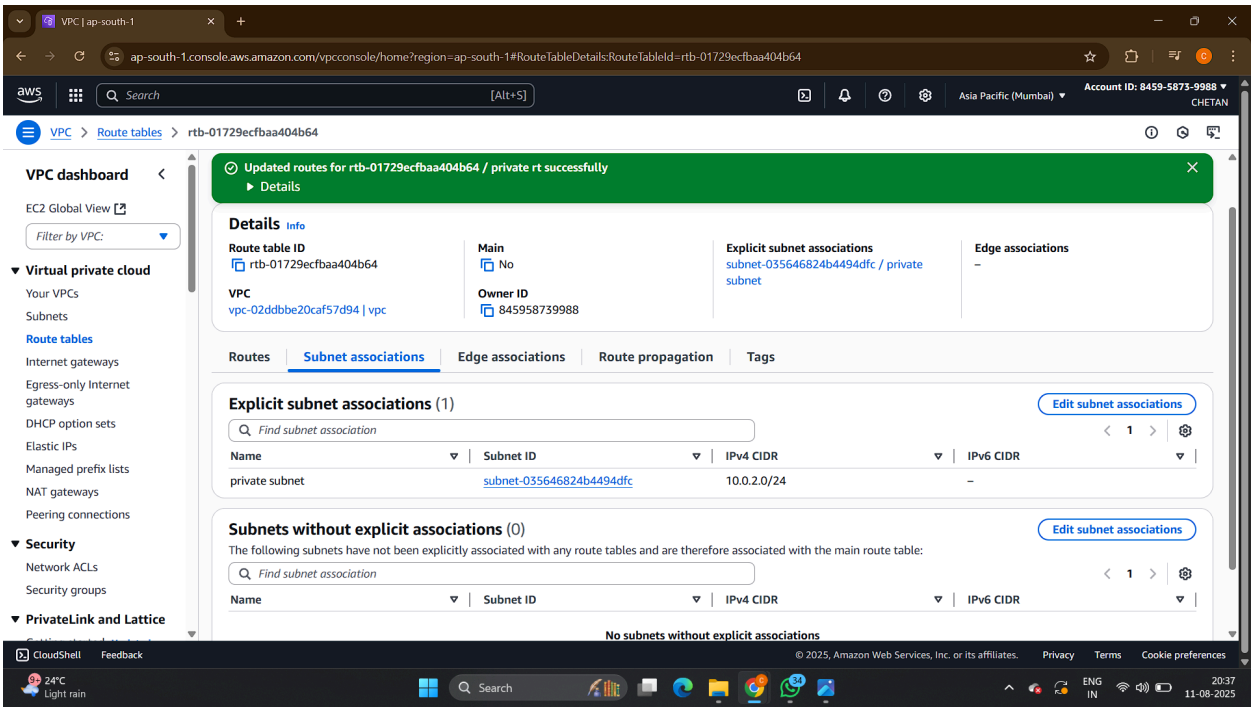
Search
ENG IN
20:37 11-08-2025


VPC | ap-south-1
ap-south-1.console.aws.amazon.com/vpcconsole/home?region=ap-south-1#RouteTableDetails:RouteTableId=rtb-01729ecfbaa404b64
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
VPC > Route tables > rtb-01729ecfbaa404b64
VPC dashboard
EC2 Global View
Filter by VPC:
Virtual private cloud
Your VPCs
Subnets
Route tables
Internet gateways
Egress-only Internet gateways
DHCP option sets
Elastic IPs
Managed prefix lists
NAT gateways
Peering connections
Security
Network ACLs
Security groups
PrivateLink and Lattice
Updated routes for rtb-01729ecfbaa404b64 / private rt successfully
Details
Details Info
Route table ID
rtb-01729ecfbaa404b64
Main
No
Explicit subnet associations
subnet-035646824b4494dfc / private subnet
Edge associations
–
VPC
vpc-02ddbbe20caf57d94 | vpc
Owner ID
845958739988
Routes
Subnet associations
Edge associations
Route propagation
Tags
Explicit subnet associations (1)
Edit subnet associations
Find subnet association
Name
Subnet ID
IPv4 CIDR
IPv6 CIDR
private subnet
subnet-035646824b4494dfc
10.0.2.0/24
–
Subnets without explicit associations (0)
Edit subnet associations
The following subnets have not been explicitly associated with any route tables and are therefore associated with the main route table:
Find subnet association
Name
Subnet ID
IPv4 CIDR
IPv6 CIDR
No subnets without explicit associations
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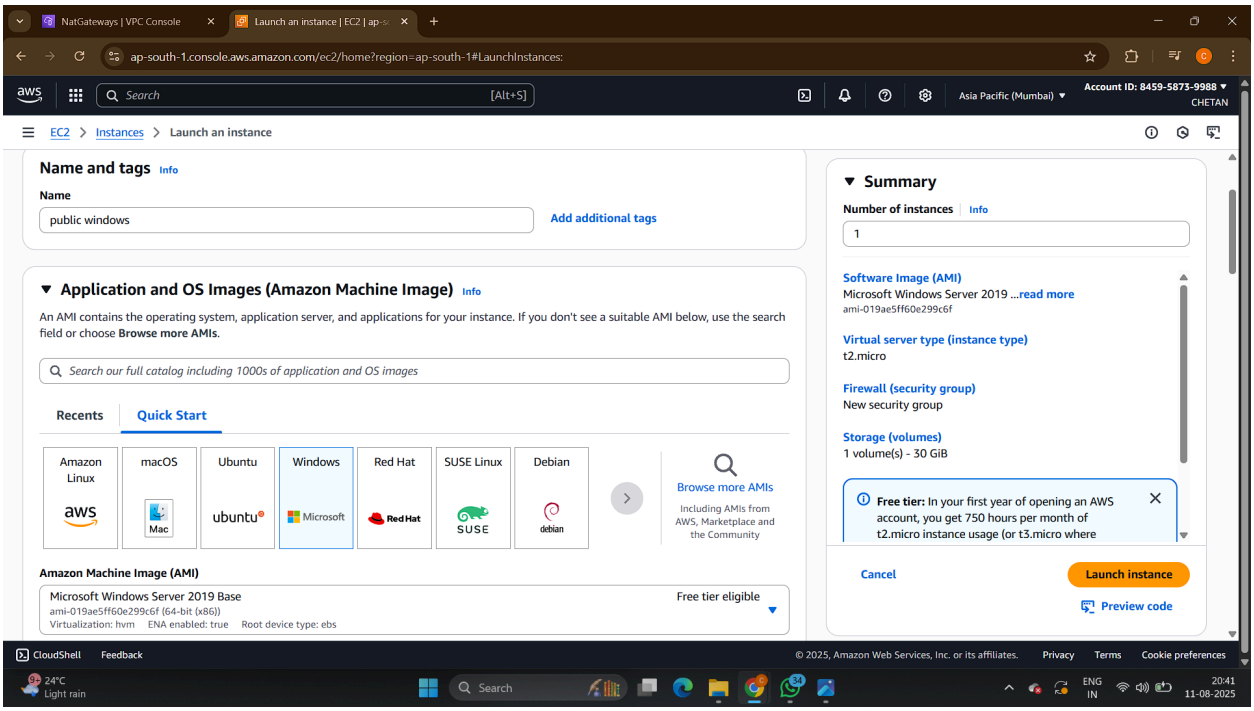
NatGateways | VPC Console
Launch an instance | EC2 | ap-s
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
EC2 > Instances > Launch an instance
Name and tags Info
Name
public windows
Add additional tags
Application and OS Images (Amazon Machine Image) Info
An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose Browse more AMIs.
Search our full catalog including 1000s of application and OS images
Recents
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
SUSE Linux
Debian
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Microsoft Windows Server 2019 Base
ami-019ae5ff60e299c6f (64-bit (x86))
Virtualization: hvm ENA enabled: true Root device type: ebs
Free tier eligible
Summary
Number of instances Info
1
Software Image (AMI)
Microsoft Windows Server 2019 ...read more
ami-019ae5ff60e299c6f
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 30 GiB
Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where
Cancel
Launch instance
Preview code
CloudShell
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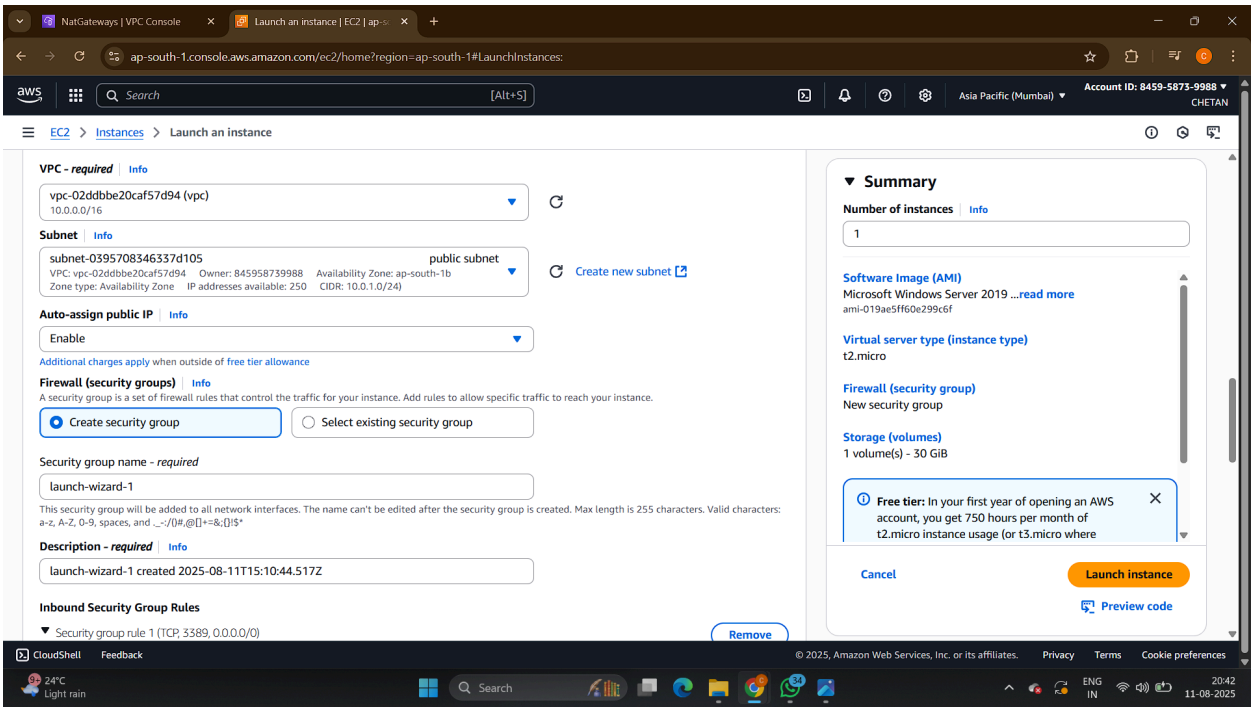
NatGateways | VPC Console
Launch an instance | EC2 | ap-s
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
EC2 > Instances > Launch an instance
VPC - required Info
vpc-02ddbbe20caf57d94 (vpc)
10.0.0.0/16
Subnet Info
subnet-0395708346337d105 public subnet
VPC: vpc-02ddbbe20caf57d94 Owner: 845958739988 Availability Zone: ap-south-1b
Zone type: Availability Zone IP addresses available: 250 CIDR: 10.0.1.0/24)
Create new subnet
Auto-assign public IP Info
Enable
Additional charges apply when outside of free tier allowance
Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
Create security group
Select existing security group
Security group name - required
launch-wizard-1
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters:
a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*
Description - required Info
launch-wizard-1 created 2025-08-11T15:10:44.517Z
Inbound Security Group Rules
Security group rule 1 (TCP, 3389, 0.0.0.0/0)
Remove
Summary
Number of instances Info
1
Software Image (AMI)
Microsoft Windows Server 2019 ...read more
ami-019ae5ff60e299c6f
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 30 GiB
Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where
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Launch instance
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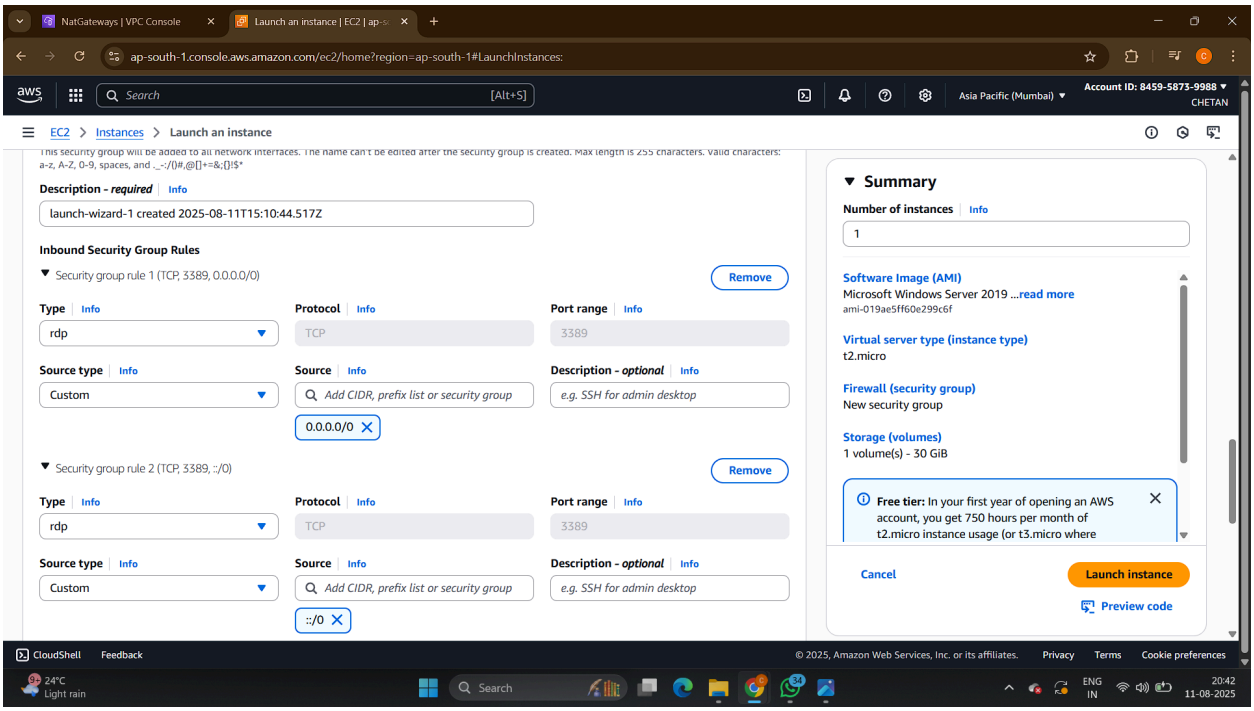
NatGateways | VPC Console
Launch an instance | EC2 | ap-s
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
EC2 > Instances > Launch an instance
a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*
Description - required Info
launch-wizard-1 created 2025-08-11T15:10:44.517Z
Inbound Security Group Rules
Security group rule 1 (TCP, 3389, 0.0.0.0/0)
Remove
Type Info
rdp
Protocol Info
TCP
Port range Info
3389
Source type Info
Custom
Source Info
Add CIDR, prefix list or security group
0.0.0.0/0
Description - optional Info
e.g. SSH for admin desktop
Security group rule 2 (TCP, 3389, ::/0)
Remove
Type Info
rdp
Protocol Info
TCP
Port range Info
3389
Source type Info
Custom
Source Info
Add CIDR, prefix list or security group
::/0
Description - optional Info
e.g. SSH for admin desktop
Summary
Number of instances Info
1
Software Image (AMI)
Microsoft Windows Server 2019 ...read more
ami-019ae5ff60e299c6f
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 30 GiB
Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where
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Launch instance
Preview code
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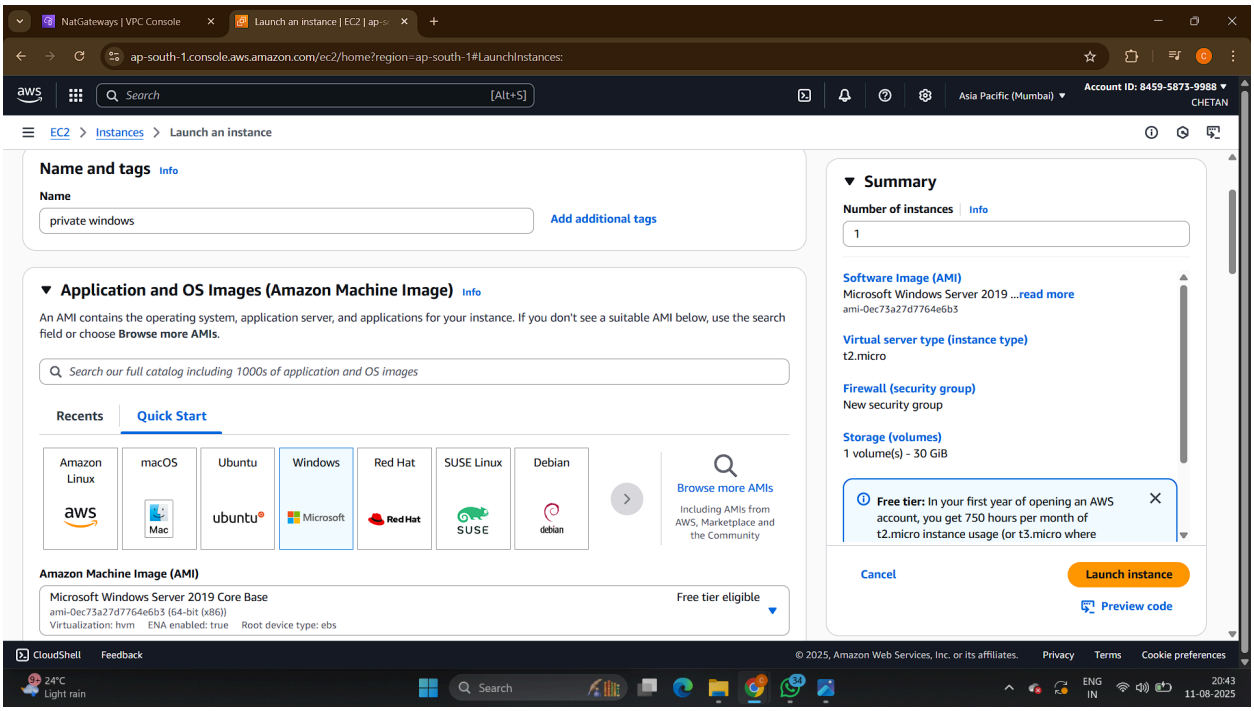
NatGateways | VPC Console
Launch an instance | EC2 | ap-s
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
EC2 > Instances > Launch an instance
Name and tags Info
Name
private windows
Add additional tags
Application and OS Images (Amazon Machine Image) Info
An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose Browse more AMIs.
Search our full catalog including 1000s of application and OS images
Recents
Quick Start
Amazon Linux
macOS
Ubuntu
Windows
Red Hat
SUSE Linux
Debian
Browse more AMIs
Including AMIs from AWS, Marketplace and the Community
Amazon Machine Image (AMI)
Microsoft Windows Server 2019 Core Base
ami-0ec73a27d7764e6b3 (64-bit (x86))
Virtualization: hvm ENA enabled: true Root device type: ebs
Free tier eligible
Summary
Number of instances Info
1
Software Image (AMI)
Microsoft Windows Server 2019 ...read more
ami-0ec73a27d7764e6b3
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 30 GiB
Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where
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Launch instance
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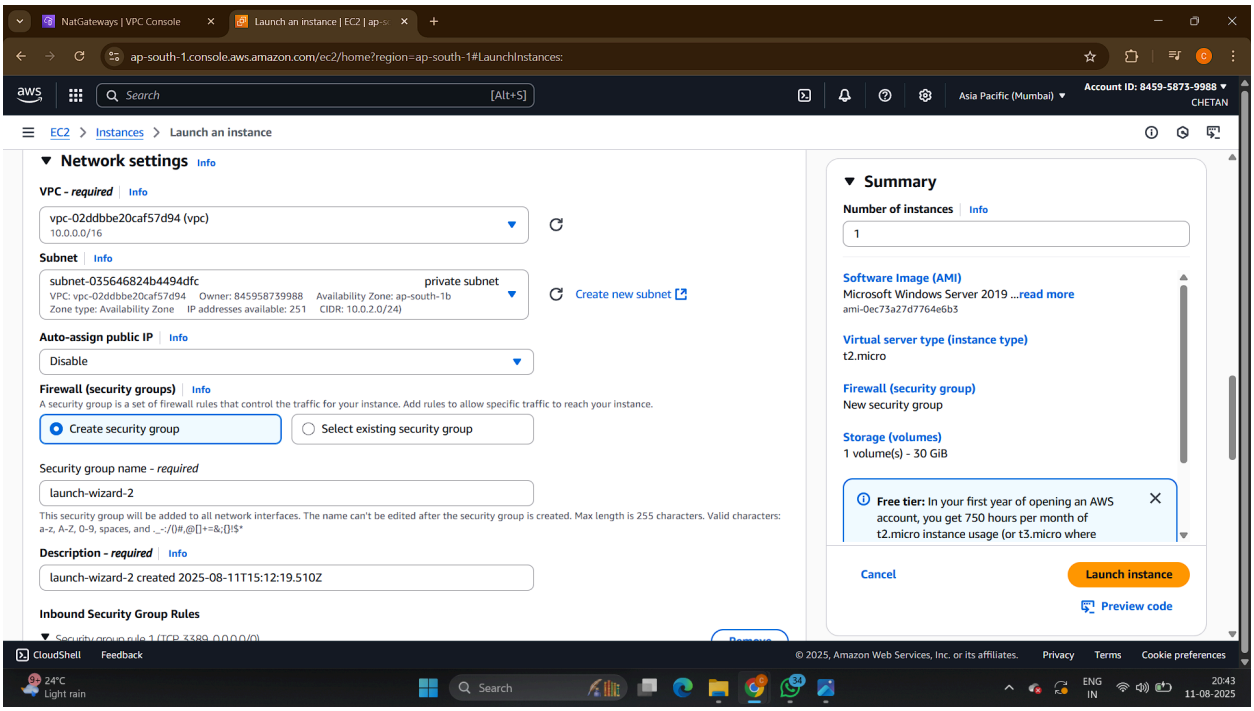
NatGateways | VPC Console
Launch an instance | EC2 | ap-s
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
EC2 > Instances > Launch an instance
Network settings Info
VPC - required Info
vpc-02ddbbe20caf57d94 (vpc)
10.0.0.0/16
Subnet Info
subnet-035646824b4494dfc private subnet
VPC: vpc-02ddbbe20caf57d94 Owner: 845958739988 Availability Zone: ap-south-1b
Zone type: Availability Zone IP addresses available: 251 CIDR: 10.0.2.0/24)
Create new subnet
Auto-assign public IP Info
Disable
Firewall (security groups) Info
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.
Create security group
Select existing security group
Security group name - required
launch-wizard-2
This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and ._-:/()#,@[]+=&;{}!$*
Description - required Info
launch-wizard-2 created 2025-08-11T15:12:19.510Z
Inbound Security Group Rules
Summary
Number of instances Info
1
Software Image (AMI)
Microsoft Windows Server 2019 ...read more
ami-0ec73a27d7764e6b3
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Storage (volumes)
1 volume(s) - 30 GiB
Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where
Cancel
Launch instance
Preview code
CloudShell
Feedback
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24°C
Light rain
Search
ENG
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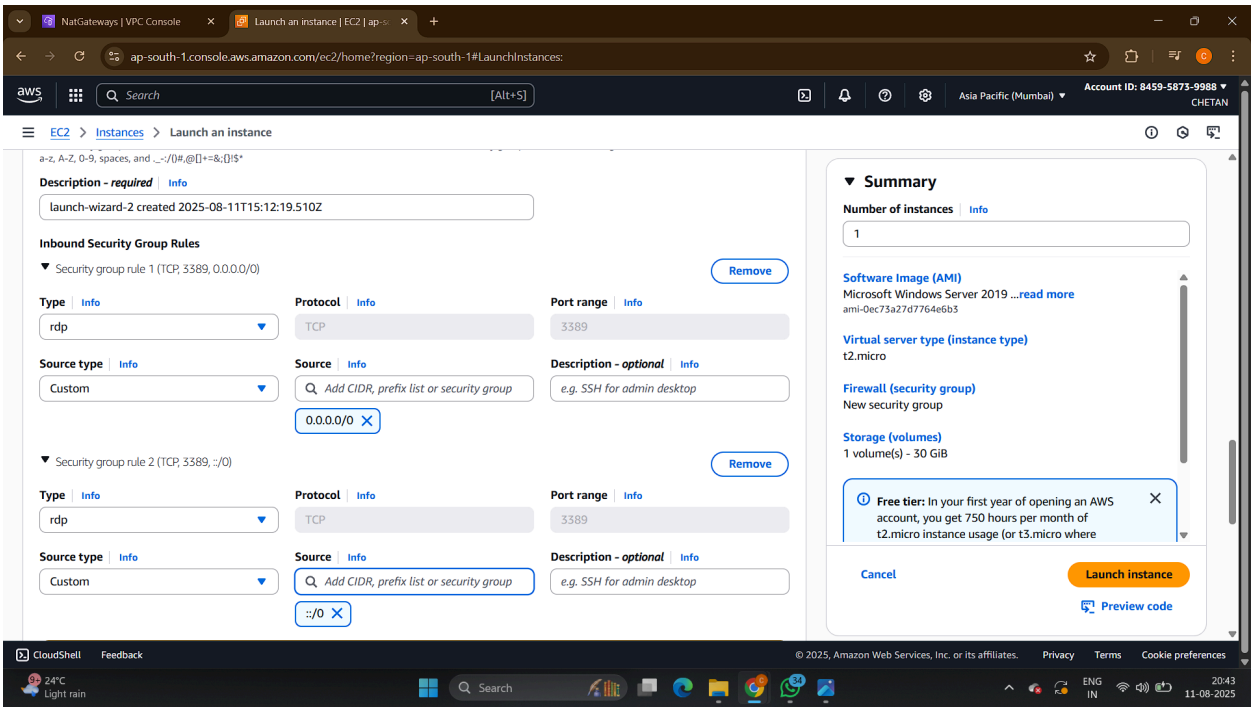
20:43
11-08-2025


NatGateways | VPC Console
Launch an instance | EC2 | ap-s
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
EC2 > Instances > Launch an instance
Description - required Info
launch-wizard-2 created 2025-08-11T15:12:19.510Z
Inbound Security Group Rules
Security group rule 1 (TCP, 3389, 0.0.0.0/0)
Remove
Type Info
rdp
Protocol Info
TCP
Port range Info
3389
Source type Info
Custom
Source Info
Add CIDR, prefix list or security group
0.0.0.0/0
Description - optional Info
e.g. SSH for admin desktop
Security group rule 2 (TCP, 3389, ::/0)
Remove
Type Info
rdp
Protocol Info
TCP
Port range Info
3389
Source type Info
Custom
Source Info
Add CIDR, prefix list or security group
::/0
Description - optional Info
e.g. SSH for admin desktop
Summary
Number of instances Info
1
Software Image (AMI)
Microsoft Windows Server 2019 ...read more
ami-0ec73a27d7764e6b3
Virtual server type (instance type)
t2.micro
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New security group
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Launch instance
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CloudShell
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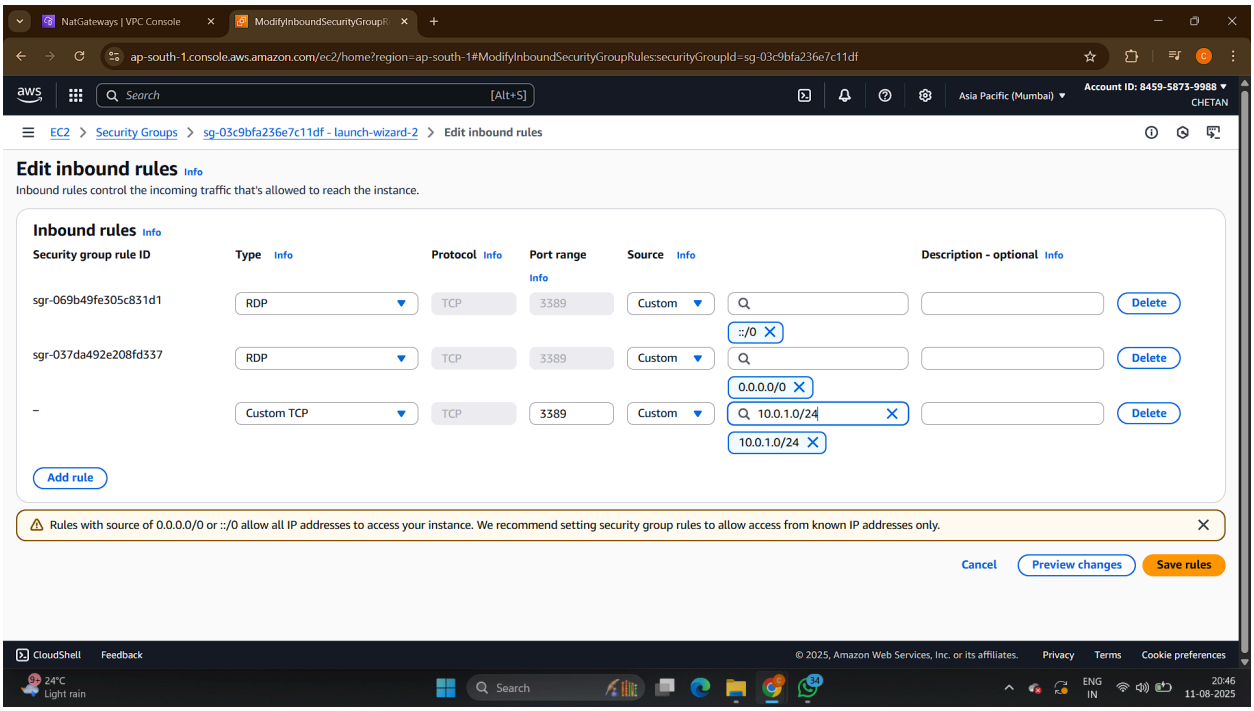
NatGateways | VPC Console
ModifyInboundSecurityGroupR
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ModifyInboundSecurityGroupRules:securityGroupId=sg-03c9bfa236e7c11df
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
EC2 > Security Groups > sg-03c9bfa236e7c11df - launch-wizard-2 > Edit inbound rules
Edit inbound rules Info
Inbound rules control the incoming traffic that's allowed to reach the instance.
Inbound rules Info
Security group rule ID
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
sgr-069b49fe305c831d1
RDP
TCP
3389
Custom
::/0
Delete
sgr-037da492e208fd337
RDP
TCP
3389
Custom
0.0.0.0/0
Delete
-
Custom TCP
TCP
3389
Custom
10.0.1.0/24
10.0.1.0/24
Delete
Add rule
Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Cancel
Preview changes
Save rules
CloudShell
Feedback
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Cookie preferences
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Light rain
Search
ENG
IN
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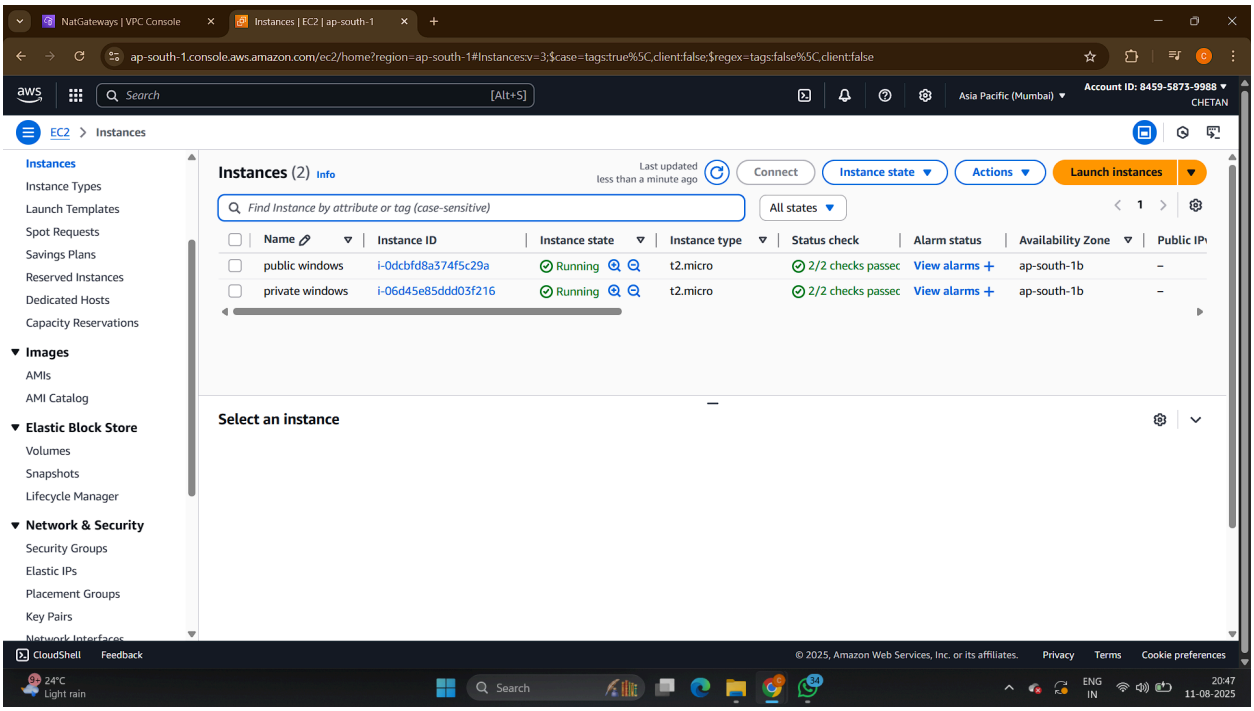
NatGateways | VPC Console
Instances | EC2 | ap-south-1
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
EC2 > Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Instances (2) Info
Last updated less than a minute ago
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IP
public windows
i-0dcbfd8a374f5c29a
Running
t2.micro
2/2 checks passed
View alarms
ap-south-1b
private windows
i-06d45e85ddd03f216
Running
t2.micro
2/2 checks passed
View alarms
ap-south-1b
Select an instance
CloudShell
Feedback
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Cookie preferences
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Light rain
Search
ENG
IN
20:47
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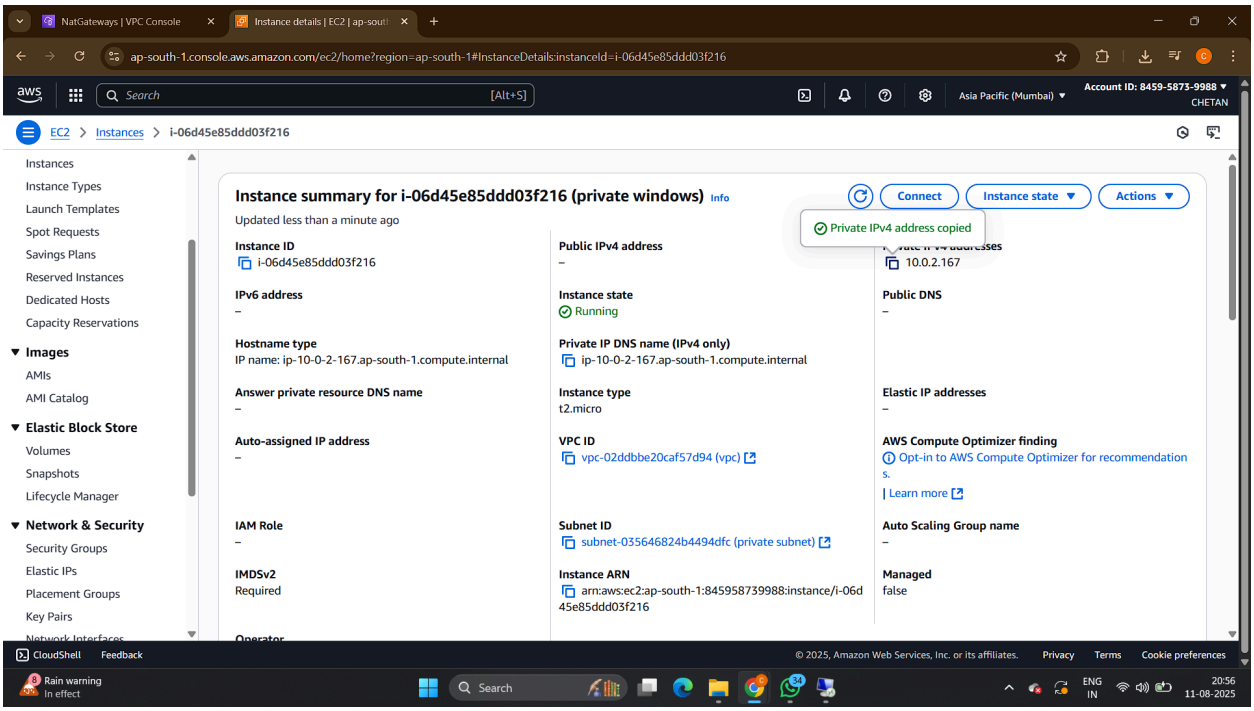
NatGateways | VPC Console
Instance details | EC2 | ap-south-1
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#InstanceDetails:instanceId=i-06d45e85ddd03f216
Search [Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
EC2 > Instances > i-06d45e85ddd03f216
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Instance summary for i-06d45e85ddd03f216 (private windows) Info
Updated less than a minute ago
Connect
Instance state
Actions
Private IPv4 address copied
Instance ID
i-06d45e85ddd03f216
Public IPv4 address
–
10.0.2.167
IPv6 address
–
Instance state
Running
Public DNS
–
Hostname type
IP name: ip-10-0-2-167.ap-south-1.compute.internal
Private IP DNS name (IPv4 only)
ip-10-0-2-167.ap-south-1.compute.internal
Answer private resource DNS name
–
Instance type
t2.micro
Elastic IP addresses
–
Auto-assigned IP address
–
VPC ID
vpc-02ddbbe20caf57d94 (vpc)
AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations.
Learn more
IAM Role
–
Subnet ID
subnet-035646824b4494dfc (private subnet)
Auto Scaling Group name
–
IMDSv2
Required
Instance ARN
arn:aws:ec2:ap-south-1:845958739988:instance/i-06d45e85ddd03f216
Managed
false
Operator
CloudShell
Feedback
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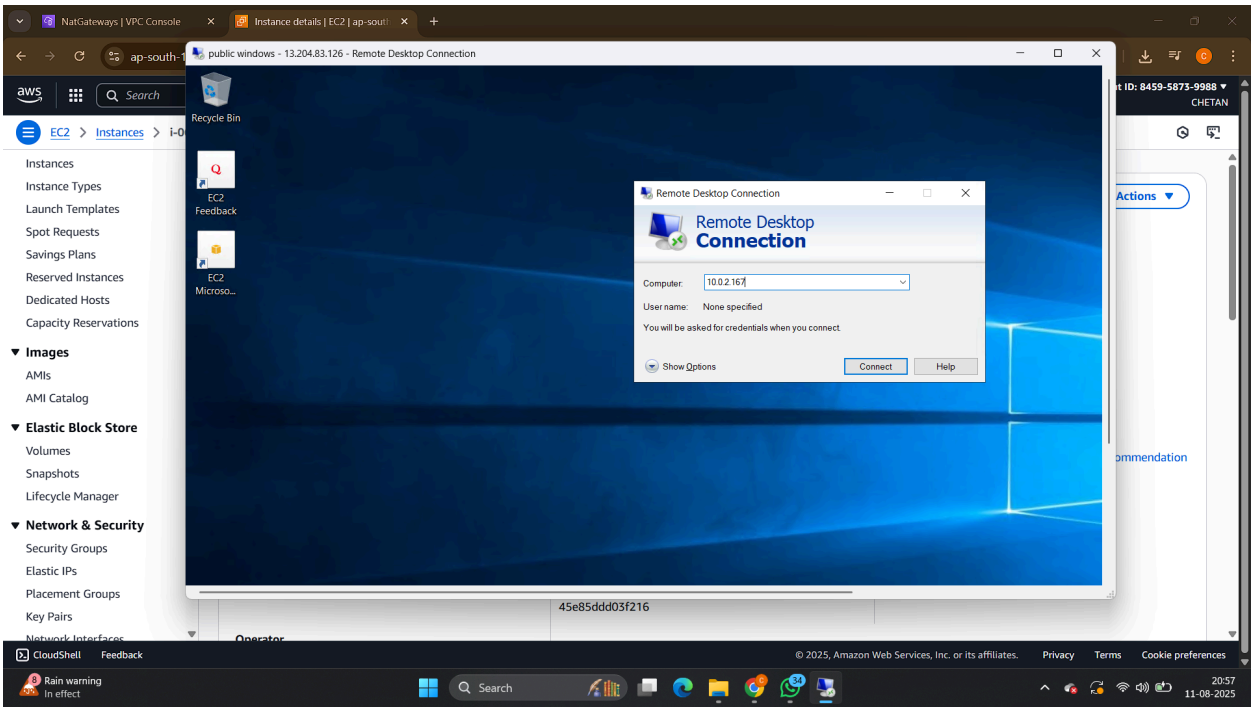
Cookie preferences
Rain warning
In effect
Search
ENG
IN
20:56
11-08-2025


public windows - 13.204.83.126 - Remote Desktop Connection
Recycle Bin
EC2 Feedback
EC2 Microso...
Remote Desktop Connection
Remote Desktop Connection
Computer: 10.0.2.167
User name: None specified
You will be asked for credentials when you connect.
Show Options
Connect
Help
45e85ddd03f216
Actions
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
CloudShell
Feedback
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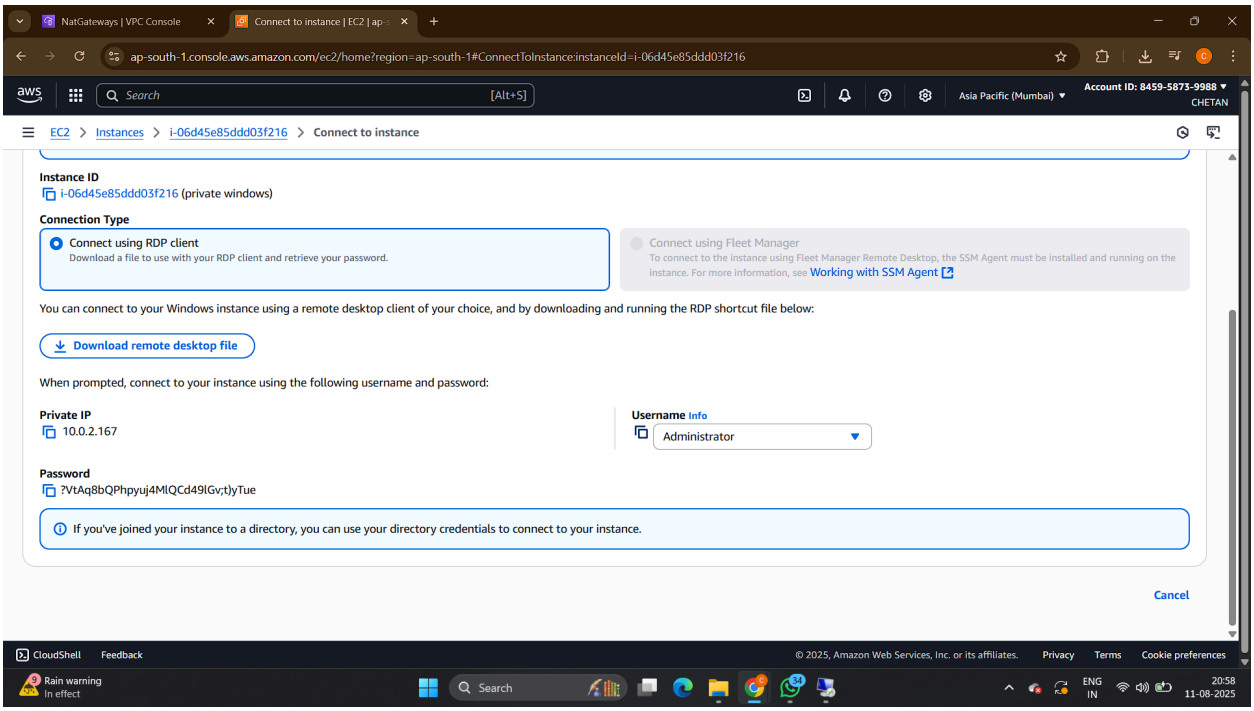
Cookie preferences
Rain warning
In effect
Search
20:57
11-08-2025


ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#ConnectToInstance:instanceId=i-06d45e85ddd03f216
Search
[Alt+S]
Asia Pacific (Mumbai)
Account ID: 8459-5873-9988
CHETAN
EC2 > Instances > i-06d45e85ddd03f216 > Connect to instance
Instance ID
i-06d45e85ddd03f216 (private windows)
Connection Type
Connect using RDP client
Download a file to use with your RDP client and retrieve your password.
Connect using Fleet Manager
To connect to the instance using Fleet Manager Remote Desktop, the SSM Agent must be installed and running on the instance. For more information, see Working with SSM Agent
You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:
Download remote desktop file
When prompted, connect to your instance using the following username and password:
Private IP
10.0.2.167
Username Info
Administrator
Password
?VtAq8bQPhpyuj4MlQCd49lGv;t)yTue
If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.
Cancel
CloudShell
Feedback
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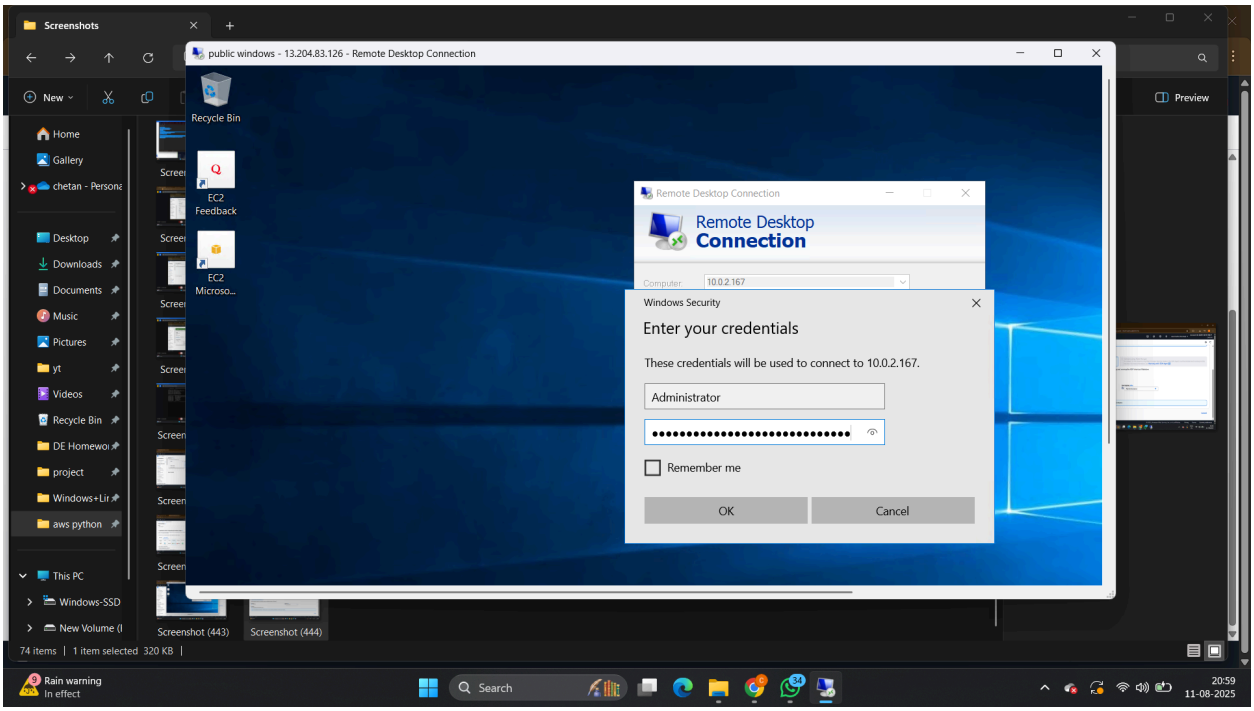
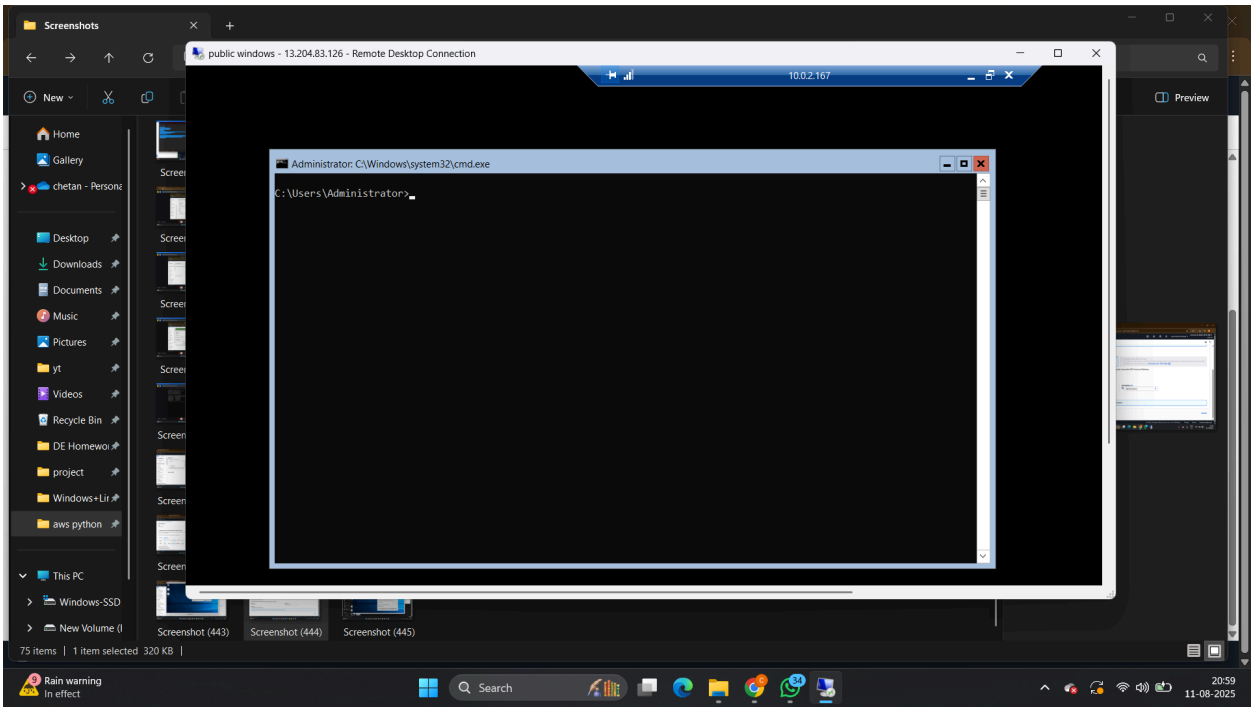
Cookie preferences
Rain warning
In effect
Search
ENG
IN
20:58
11-08-2025





4. Advanced S3 Operations with Boto3 (Python)

Enable Versioning

```
python
CopyEdit
s3.put_bucket_versioning(
    Bucket=bucket_name,
    VersioningConfiguration={'Status': 'Enabled'}
)
print("Versioning enabled.")
```

Disable Versioning

```
python
CopyEdit
s3.put_bucket_versioning(
    Bucket=bucket_name,
    VersioningConfiguration={'Status': 'Suspended'}
)
print("Versioning suspended.")
```

Apply Lifecycle Policy (auto delete after 30 days)

```
python
CopyEdit
lifecycle_configuration = {
    'Rules': [
        {
            'ID': 'DeleteOldObjects',
            'Filter': {'Prefix': ''},
            'Status': 'Enabled',
            'Expiration': {'Days': 30}
        }
    ]
```

```
}

s3.put_bucket_lifecycle_configuration(
    Bucket=bucket_name,
    LifecycleConfiguration=lifecycle_configuration
)
print("Lifecycle policy applied.")
```

Generate Pre-signed URL

```
python
CopyEdit
url = s3.generate_presigned_url(
    'get_object',
    Params={'Bucket': bucket_name, 'Key': 'uploaded_file.txt'},
    ExpiresIn=3600  # valid for 1 hour
)
print("Pre-signed URL:", url)
```

---

5. Automating S3 Cleanup (Python, simplified)

```
python
CopyEdit
response = s3.list_object_versions(Bucket=bucket_name)

for version in response.get('Versions', []):
    s3.delete_object(Bucket=bucket_name, Key=version['Key'], VersionId=versi
on['VersionId'])

for marker in response.get('DeleteMarkers', []):
```

```
    s3.delete_object(Bucket=bucket_name, Key=marker['Key'], VersionId=mark
er['VersionId'])

print("All versions and delete markers removed.")
```

---

6. AWS CLI S3 Sync & Bucket Policy & CloudTrail

Sync local folder to S3 bucket

```
bash
CopyEdit
aws s3 sync /local/folder/path s3://your-unique-bucket-name-12345
```

Set Bucket Policy (example to allow public read)

```
bash
CopyEdit
aws s3api put-bucket-policy --bucket your-unique-bucket-name-12345 --poli
cy file://policy.json
```

`policy.json` example:

```
json
CopyEdit
{
  "Version": "2012-10-17",
  "Statement": [{
    "Sid": "PublicReadGetObject",
    "Effect": "Allow",
```

```
    "Principal": "*",
    "Action": "s3:GetObject",
    "Resource": "arn:aws:s3:::your-unique-bucket-name-12345/*"
  }]
}
```

Lookup CloudTrail Events

```
bash
CopyEdit
aws cloudtrail lookup-events --lookup-attributes AttributeKey=EventName,Att
ributeValue=PutObject
```

---

7. Create IAM Policy (allow GetObject but deny DeleteObject)

Example JSON policy:

```
json
CopyEdit
{
   "Version": "2012-10-17",
   "Statement": [
      {
         "Effect": "Allow",
         "Action": "s3:GetObject",
         "Resource": "arn:aws:s3:::your-unique-bucket-name-12345/*"
      },
      {
         "Effect": "Deny",
         "Action": "s3:DeleteObject",
```

```
        "Resource": "arn:aws:s3:::your-unique-bucket-name-12345/*"
      }
    ]
}
```

Attach policy to user: Use AWS Console or CLI:

```
bash
CopyEdit
aws iam put-user-policy --user-name test-user --policy-name S3ReadOnlyPol
icy --policy-document file://
```