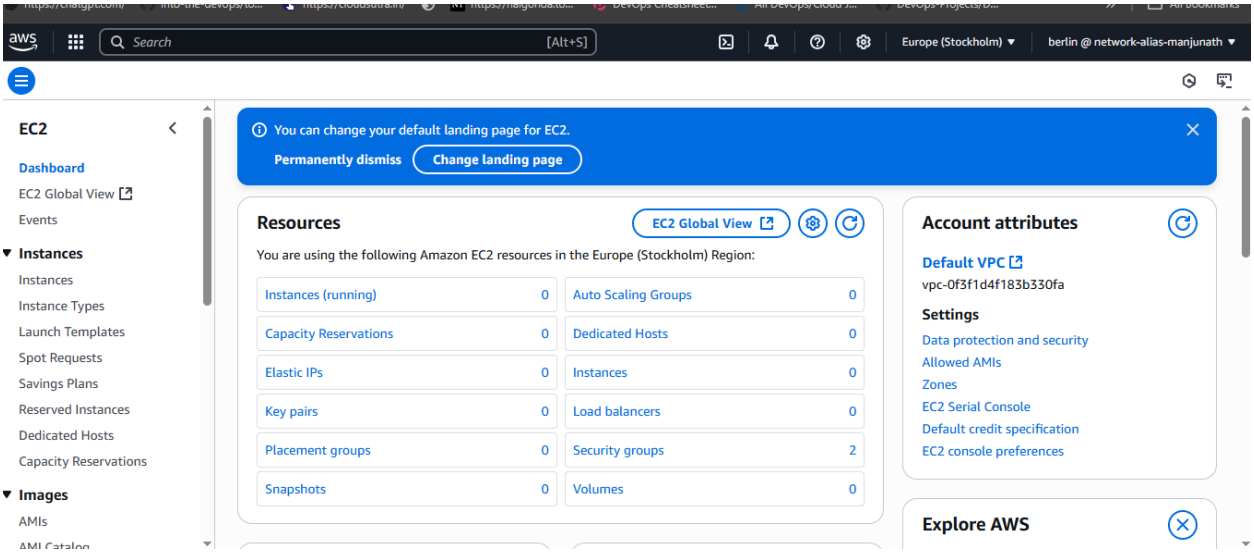
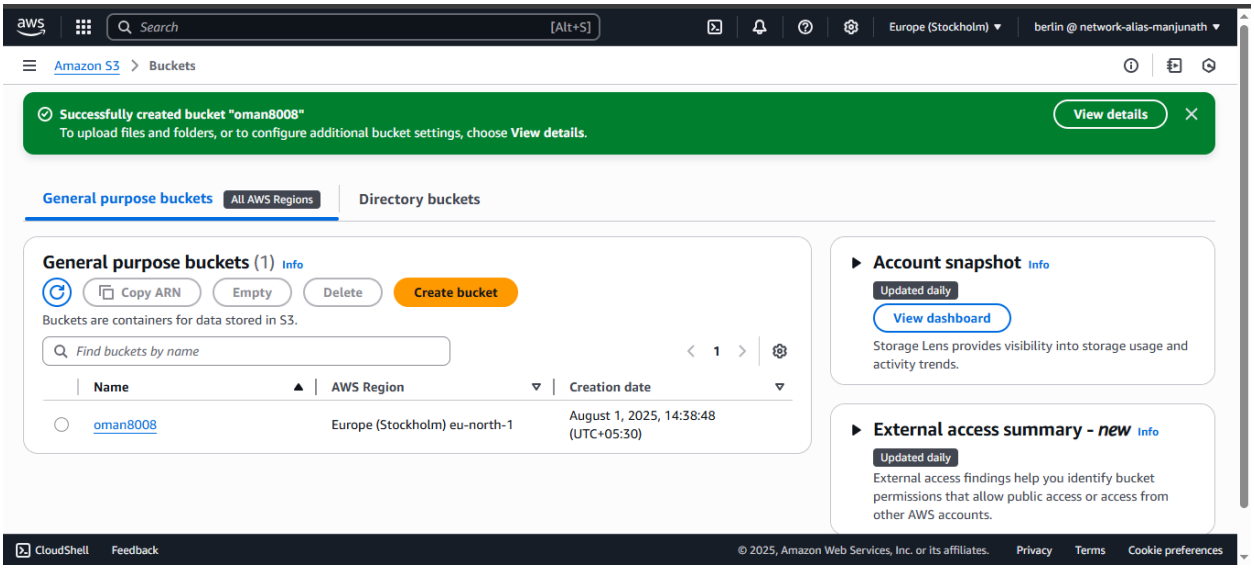
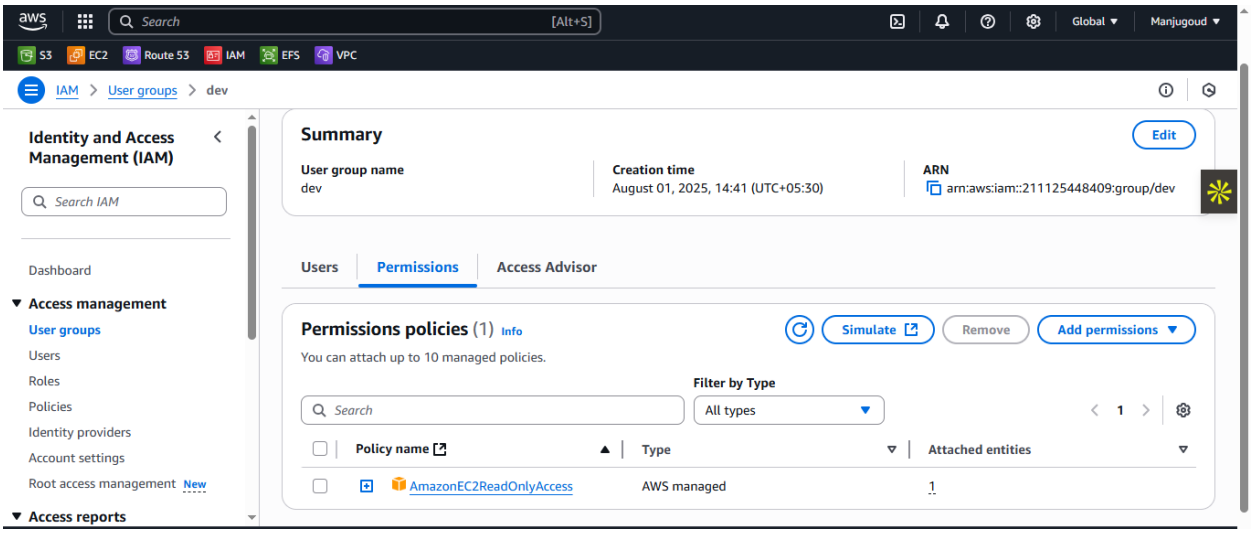
IAM(Identity and Acess Management

1) Create one IAM user and assign ec2,s3 full access role.

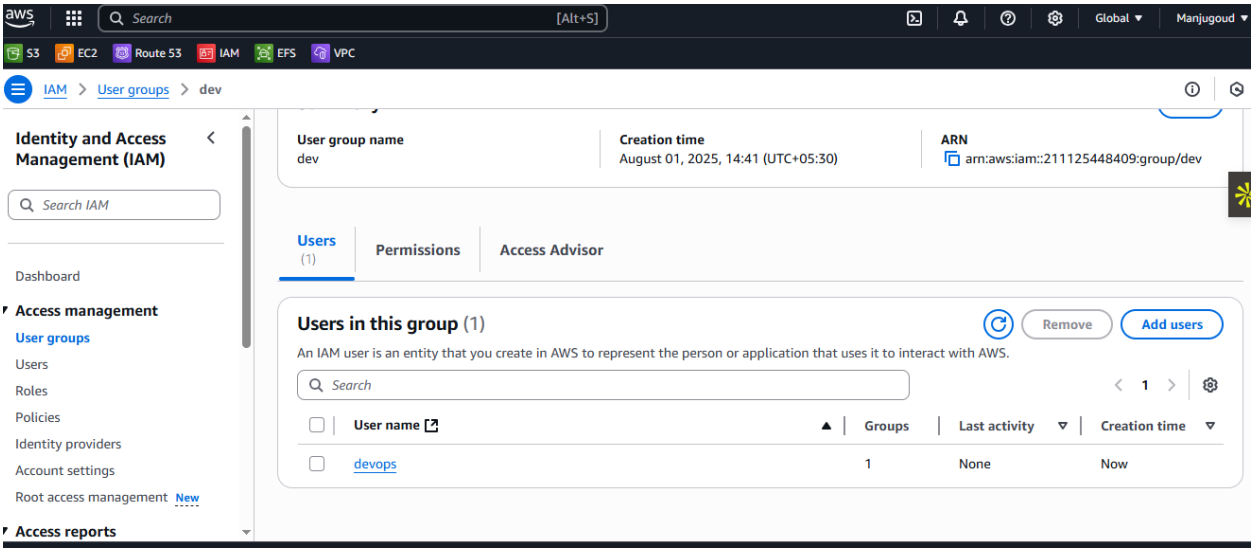




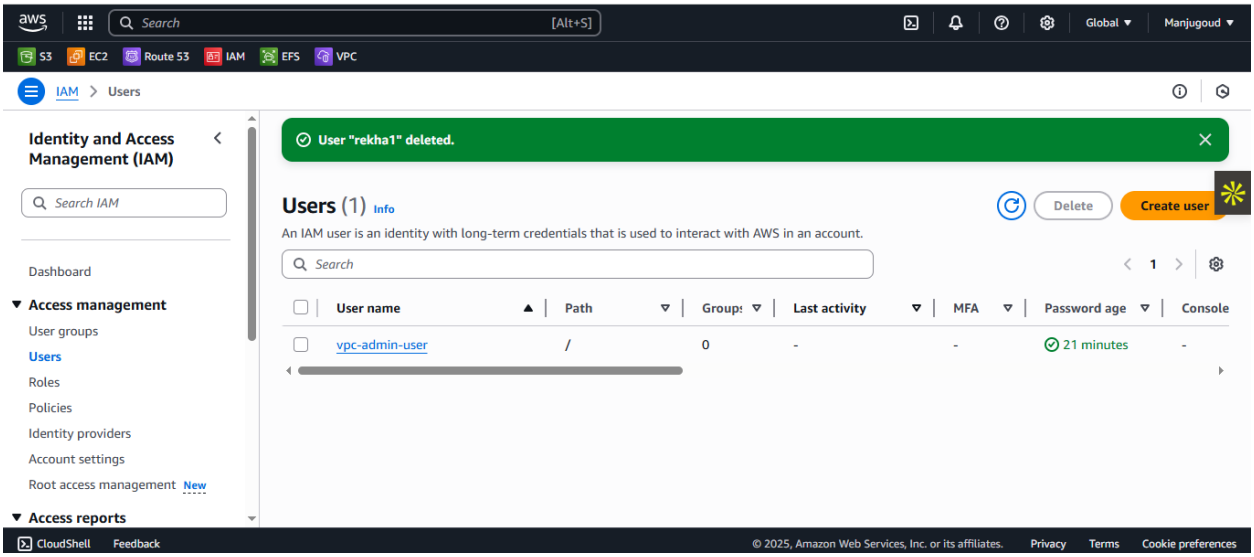
2) Create one Group in IAM and Assign Read access for ec2.



3) Create a new user with name Devops and add to the group created in task2.



4) Write a bash script to create a IAM user with VPC full access.



#!/bin/bash

USER_NAME="vpc-admin-user"

POLICY_ARN="arn:aws:iam::aws:policy/AmazonVPCFullAccess"

echo "Creating IAM user: $USER_NAME" aws iam create-user --user-name "$USER_NAME"

echo "Attaching VPC full access policy to user: $USER_NAME" aws iam attach-user-policy --user-name "$USER_NAME" --policy-arn "$POLICY_ARN"

echo "Setting password for console login (optional)" aws iam create-login-profile

--user-name "$USER_NAME"

--password 'Welcome@123'

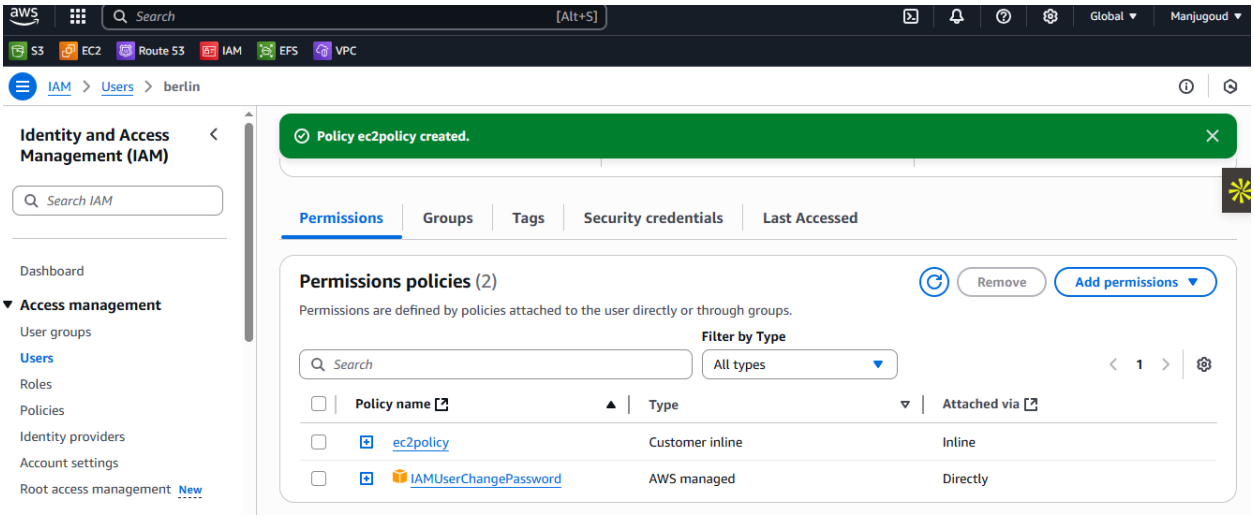
--password-reset-required

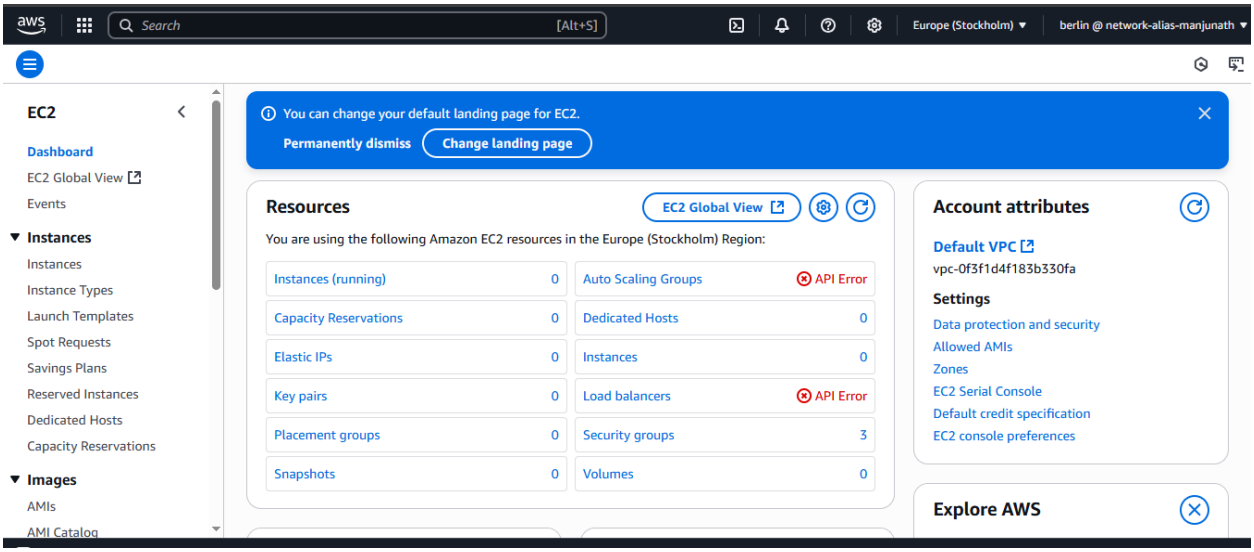
echo "Creating access keys for user: $USER_NAME" aws iam create-access-key --user-name "$USER_NAME"

echo "IAM user '$USER_NAME' created and VPC full access policy attached."

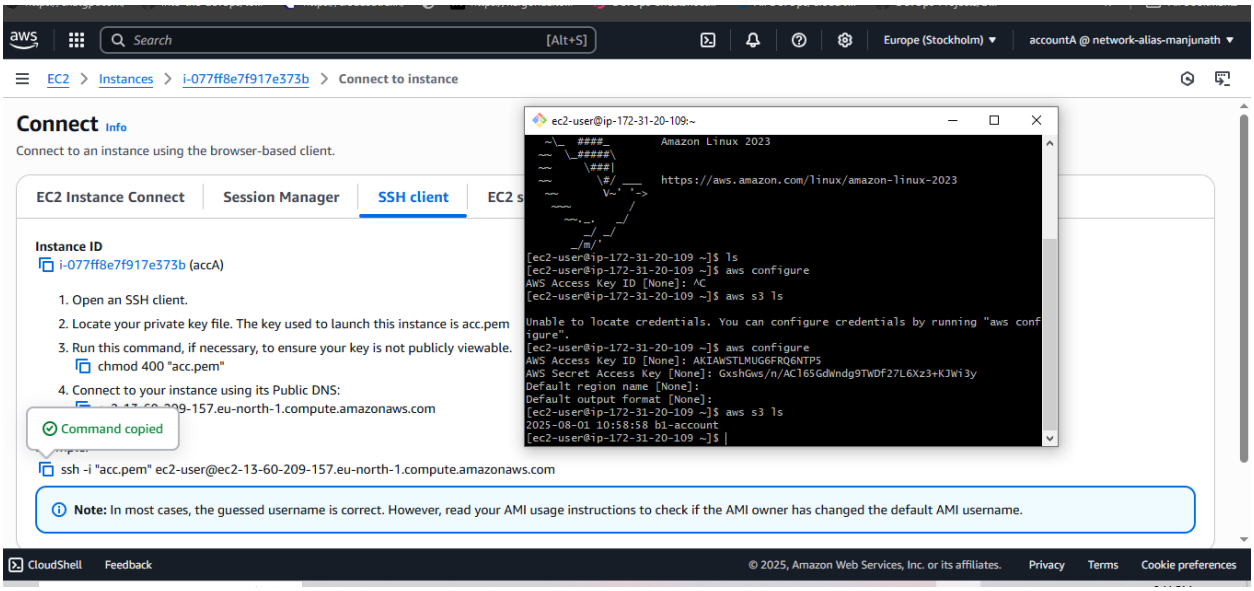
Here we need to create an IAM user using AWS CLI.

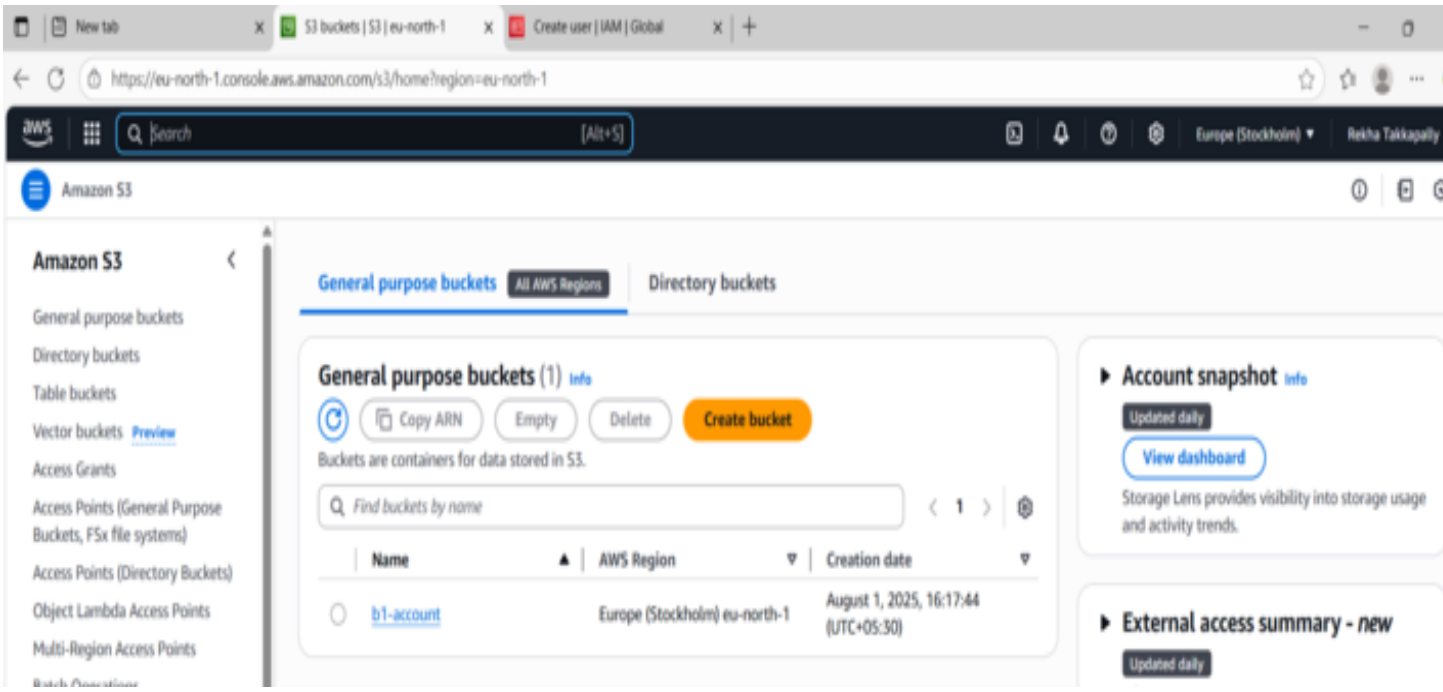
5) Create a IAM policy to access ec2 for a specific user in specific regions only.

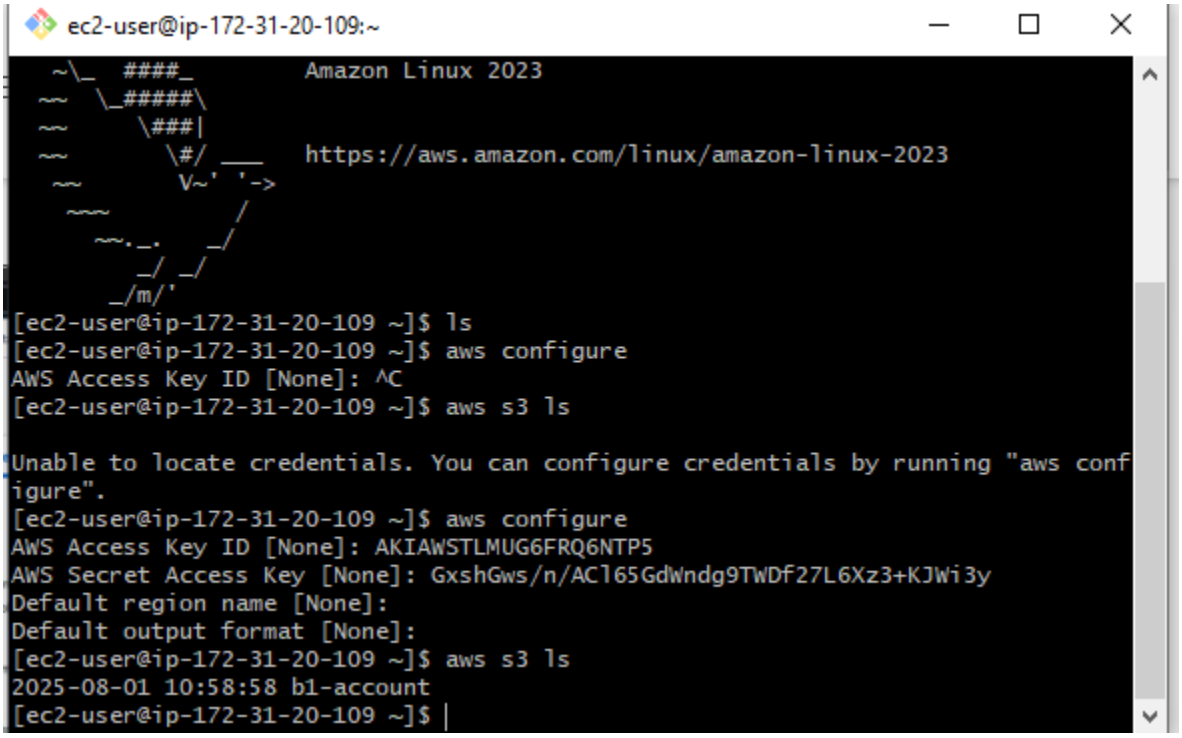




6) We have two accounts Account A and Account B, Account A user should access s3 bucket in Account B. (Collaborate with team member and execute this.Mostly asked in every interview)


Search
[Alt+S]
Europe (Stockholm)
accountA @ network-alias-manjunath
EC2 > Instances > i-077ff8e7f917e373b > Connect to instance
Connect Info
Connect to an instance using the browser-based client.
EC2 Instance Connect
Session Manager
SSH client
Instance ID
i-077ff8e7f917e373b (accA)
1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is acc.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
chmod 400 "acc.pem"
4. Connect to your instance using its Public DNS:
-157.eu-north-1.compute.amazonaws.com
Command copied
ssh -i "acc.pem" ec2-user@ec2-13-60-209-157.eu-north-1.compute.amazonaws.com
Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.
ec2-user@ip-172-31-20-109:~
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-20-109 ~]$ ls
[ec2-user@ip-172-31-20-109 ~]$ aws configure
AWS Access Key ID [None]: ^C
[ec2-user@ip-172-31-20-109 ~]$ aws s3 ls
Unable to locate credentials. You can configure credentials by running "aws configure".
[ec2-user@ip-172-31-20-109 ~]$ aws configure
AWS Access Key ID [None]: AKIAWSTLMUG6FRQ6NTPS
AWS Secret Access Key [None]: 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
Default region name [None]:
Default output format [None]:
[ec2-user@ip-172-31-20-109 ~]$ aws s3 ls
2025-08-01 10:58:58 b1-account
[ec2-user@ip-172-31-20-109 ~]$
CloudShell
Feedback
© 2025, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


New tab
S3 buckets | S3 | eu-north-1
Create user | IAM | Global
https://eu-north-1.console.aws.amazon.com/s3/home?region=eu-north-1
Search
[Alt+S]
Europe (Stockholm)
Rekha Takkapally
Amazon S3
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
General purpose buckets
All AWS Regions
Directory buckets
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
b1-account
Europe (Stockholm) eu-north-1
August 1, 2025, 16:17:44 (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


ec2-user@ip-172-31-20-109:~
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-20-109 ~]$ ls
[ec2-user@ip-172-31-20-109 ~]$ aws configure
AWS Access Key ID [None]: ^C
[ec2-user@ip-172-31-20-109 ~]$ aws s3 ls
Unable to locate credentials. You can configure credentials by running "aws conf
igure".
[ec2-user@ip-172-31-20-109 ~]$ aws configure
AWS Access Key ID [None]: AKIAWSTLMUG6FRQ6NTP5
AWS Secret Access Key [None]: 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
Default region name [None]:
Default output format [None]:
[ec2-user@ip-172-31-20-109 ~]$ aws s3 ls
2025-08-01 10:58:58 b1-account
[ec2-user@ip-172-31-20-109 ~]$