

## VPC PEERING

**PEERING CONNECTION IS USED TO CONNECT 2 DIFFERENT VPCS.**

**VPC A CREATED**

**IN THIS, I HAVE CREATED A VPC NAMED MY-VPC.**

The screenshot shows the AWS VPC Management Console interface. On the left, there's a sidebar with options like New VPC Experience, Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, Endpoint Services, and NAT Gateways. The main area displays the details of a VPC named 'my-vpc' with the ID 'vpc-02de7131cd2680066'. The 'Details' tab is selected, showing the following information:

Attribute	Value	Attribute	Value
VPC ID	vpc-02de7131cd2680066	State	Available
Tenancy	Default	DHCP options set	dopt-39997352
Default VPC	No	IPv4 CIDR	10.1.0.0/16
Owner ID	618543464581	IPv6 pool	-

Below the table, there are tabs for CIDs, Flow logs, and Tags. At the bottom of the page, there are links for Activate Windows, Privacy Policy, and Terms of Use.

**VPC B CREATED**

**I HAVE CREATED ANOTHER VPC NAMED VPC-B**

## LT-AWS

The screenshot shows the AWS VPC Management Console. In the top navigation bar, there are tabs for 'Instance details | EC2 Management', 'VPC Management Console', and two 'Learn with LetsUpgrade' tabs. The main content area is titled 'vpc-0ca0cd51de138eb91 / vpc-b'. On the left, a sidebar under 'VIRTUAL PRIVATE CLOUD' shows 'Your VPCs' with one item listed: 'Subnets'. Below this, under 'Internet Gateways New', there is one item: 'Egress Only Internet Gateways New'. The main panel displays 'Details' for the VPC, including:

VPC ID	State	DNS hostnames	DNS resolution
vpc-0ca0cd51de138eb91	Available	Disabled	Enabled
Tenancy	DHCP options set	Route table	Network ACL
Default	dopt-39997352	rtb-03addea386bd496d1	acl-082827e39a818658e
Default VPC	IPv4 CIDR	IPv6 pool	IPv6 CIDR
No	10.2.0.0/16	-	-
Owner ID			
618543464581			

Below the details, there are tabs for 'CIDRs', 'Flow logs', and 'Tags'. At the bottom of the page, there is a message: 'Activate Windows Go to Settings to activate Windows.' The footer includes links for 'Feedback', 'English (US)', 'Privacy Policy', and 'Terms of Use'.

## INTERNET GATEWAY A CREATED

**INTERNET GATEWAY IS USED FOR ALLOWING COMMUNICATION BETWEEN VPC AND THE INTERNET. ALSO, GATEWAYS REGULAR TRAFFIC BETWEEN TWO DISSIMILAR NETWORKS.**

I HAVE CREATED INTERNET GATEWAY AS IGW-A.

The screenshot shows the AWS VPC Management Console. In the top navigation bar, there are tabs for 'Instance details | EC2 Management', 'VPC Management Console', and two 'Learn with LetsUpgrade' tabs. The main content area is titled 'igw-0eb944815655aca37 / igw-a'. On the left, a sidebar under 'INTERNET Gateways New' shows one item: 'Egress Only Internet Gateways New'. The main panel displays 'Details' for the Internet gateway, including:

Internet gateway ID	State	VPC ID	Owner
igw-0eb944815655aca37	Attached	vpc-02de7131cd2680066   my-vpc	618543464581

Below the details, there is a 'Tags' section with a table:

Key	Value
Name	igw-a

At the bottom of the page, there is a message: 'Activate Windows Go to Settings to activate Windows.' The footer includes links for 'Feedback', 'English (US)', 'Privacy Policy', and 'Terms of Use'.

## INTERNET GATEWAY B CREATED

I HAVE CREATED INTERNET GATEWAY AS IGW-B.

The screenshot shows the AWS VPC Management Console interface. In the top navigation bar, there are tabs for 'Instance details | EC2 Management', 'VPC Management Console', and two 'Learn with LetsUpgrade' tabs. The main content area displays a success message: 'Internet gateway igw-007eacaf66451cf1d successfully attached to vpc-0ca0cd51de138eb91'. Below this, the breadcrumb navigation shows 'VPC > Internet gateways > igw-007eacaf66451cf1d'. The main panel is titled 'igw-007eacaf66451cf1d / igw-b'. It contains two tabs: 'Details' (selected) and 'Info'. Under 'Details', there is a table with four rows: 'Internet gateway ID' (igw-007eacaf66451cf1d), 'State' (Attached), 'VPC ID' (vpc-0ca0cd51de138eb91 | vpc-b), and 'Owner' (618543464581). Below this is a 'Tags' section with a table showing one tag: 'Name' (Value: igw-b). At the bottom of the page, there is a footer with links for 'Feedback', 'English (US)', 'Privacy Policy', 'Terms of Use', and copyright information: '© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.' The status bar at the bottom right shows the time as 9:15 PM and the date as 11/2/2020.

## SUBNET

SUBNETTING IS THE PROCESS OF DIVIDING A NETWORK INTO TWO OR MORE SMALLER, INTERCONNECTED NETWORKS WHICH HELPS TO MINIMIZE TRAFFIC. DUE TO THIS, TRAFFIC DOESN'T FLOW THROUGH UNNECESSARY ROUTES. EACH PART OF NETWORK, AFTER DIVIDING, IS CALLED SUBNET.

AWS PROVIDES TWO TYPES OF SUBNETS WHICH IS A PUBLIC SUBNET THAT ALLOWS THE INTERNET TO ACCESS THE MACHINE AND ANOTHER IS PRIVATE SUBNET THAT IS HIDDEN FROM THE INTERNET.

THE IP ADDRESS IS LOGICALLY PARTITIONED AS NETWORK ID, SUBNET ID, HOST ID.

NETWORK ID IS USED TO CHECK THE CLASSES OF IP ADDRESS THAT IS A, B OR C. SUBNET ID TELLS IT BELONGS TO WHICH SUBNET AND HOST ID IDENTIFIES THE PARTICULAR HOST ON THE SPECIFIC SUBNET NETWORK.

## PRIVATE SUBNET CREATED

The screenshot shows the AWS VPC Management Console. On the left, there's a sidebar with options like 'VPC Dashboard', 'Your VPCs', 'Subnets' (which is selected), 'Route Tables', etc. The main area has a table titled 'Create subnet' with columns: Name, Subnet ID, State, VPC, IPv4 CIDR, Available IPv4, IPv6 CIDR, and Av. A row for 'private-subnet' is selected, showing its details: Subnet ID: subnet-0d21083b16f285d1c, VPC: vpc-0ca0cd51de138eb91, State: available, IPv4 CIDR: 10.2.1.0/24, Available IPv4: 251, IPv6 CIDR: -, and Route Table: rtb-03addea386bd496d1. Below this, there's a 'Description' tab with more subnet details: Subnet ID: subnet-0d21083b16f285d1c, VPC: vpc-0ca0cd51de138eb91 | vpc-b, State: available, IPv4 CIDR: 10.2.1.0/24, IPv6 CIDR: -, Availability Zone: ap-south-1b (aps1-az3), Network ACL: acl-082827e39a818658e, Default subnet: No, Auto-assign customer-owned: No, IPv4 address: -, Auto-assign IPv6 address: No. At the bottom, there's a search bar and a status bar indicating 'Activate Windows'.

## PUBLIC SUBNET CREATED

**PUBLIC SUBNET WILL HAVE DIRECT INTERNET ACCESS VIA INTERNET GATEWAY.**

## LT-AWS

Instance details | EC2 Management | Subnets | VPC Management Con... | Learn with LetsUpgrade - Online | Learn with LetsUpgrade - Online | +

aws Services

New VPC Experience Tell us what you think

VPC Dashboard New

Filter by VPC: Select a VPC

**VIRTUAL PRIVATE CLOUD**

Your VPCs New

**Subnets**

Route Tables

Internet Gateways New

Egress Only Internet Gateways New

DHCP Options Sets New

Elastic IPs New

Managed Prefix Lists New

Endpoints

Endpoint Services

NAT Gateways New

Create subnet Actions

Filter by tags and attributes or search by keyword

Name	Subnet ID	State	VPC	IPv4 CIDR	Available IPv4	IPv6 CIDR	Av
public subnet	subnet-06cb104bc50b2b67f	available	vpc-02de7131cd2680066	10.1.1.0/24	250	-	ap-
private-subnet	subnet-0d21083b16f285d1c	available	vpc-0ca0cd51de138eb91	10.2.1.0/24	251	-	ap-
def1	subnet-3fab0744	available	vpc-3546495d   default	172.31.16.0/20	4091	-	ap-
def2	subnet-4449d308	available	vpc-3546495d   default	172.31.0.0/20	4091	-	ap-
def3	subnet-f1a99c99	available	vpc-3546495d   default	172.31.32.0/20	4091	-	ap-

Subnet: subnet-06cb104bc50b2b67f

Description Flow Logs Route Table Network ACL Tags Sharing

Subnet ID: subnet-06cb104bc50b2b67f	State: available
VPC: vpc-02de7131cd2680066   my-vpc	IPv4 CIDR: 10.1.1.0/24
Available IPv4 Addresses: 250	IPv6 CIDR: -
Availability Zone: ap-south-1a (aps1-az1)	Route Table: rt-08785d07715ed3c77   route table
Network ACL: acl-0478ta0880d2fab8d	Default subnet: No
Auto-assign public IPv4 address: Yes	Auto-assign customer-owned IPv4 address: No
Customer-owned IPv4 pool: -	Auto-assign IPv6 address: No

Feedback English (US) Type here to search © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use 9:19 PM 11/2/2020

## PEERING CONNECTION CREATED

**CONNECTION BETWEEN MY-VPC AND VPC –B IS ESTABLISHED HERE.**

Instance details | EC2 Management | Peering Connections | VPC Management Con... | Learn with LetsUpgrade - Online | Learn with LetsUpgrade - Online | +

aws Services

New VPC Experience Tell us what you think

Select a VPC

**VIRTUAL PRIVATE CLOUD**

Your VPCs New

Subnets

Route Tables

Internet Gateways New

Egress Only Internet Gateways New

DHCP Options Sets New

Elastic IPs New

Managed Prefix Lists New

Endpoints

Endpoint Services

NAT Gateways New

**Peering Connections**

Peering Connection: pcx-0339010d363023790

Create Peering Connection Actions

Filter by tags and attributes or search by keyword

Name	Peering Connection	Status	Requester VPC	Acceptor VPC	Requester CIDRs	Acceptor CIDRs	Requester CIDR
A-B	pcx-0339010d363023790	Active	vpc-02de7131cd2680066	vpc-0ca0cd51de138eb91	10.1.0.0/16	10.2.0.0/16	618543

Description DNS Route Tables Tags

Requester VPC owner: 618543464581	Acceptor VPC owner: 618543464581
Requester VPC ID: vpc-02de7131cd2680066	Acceptor VPC ID: vpc-0ca0cd51de138eb91
Requester VPC Region: Mumbai (ap-south-1)	Acceptor VPC Region: Mumbai (ap-south-1)

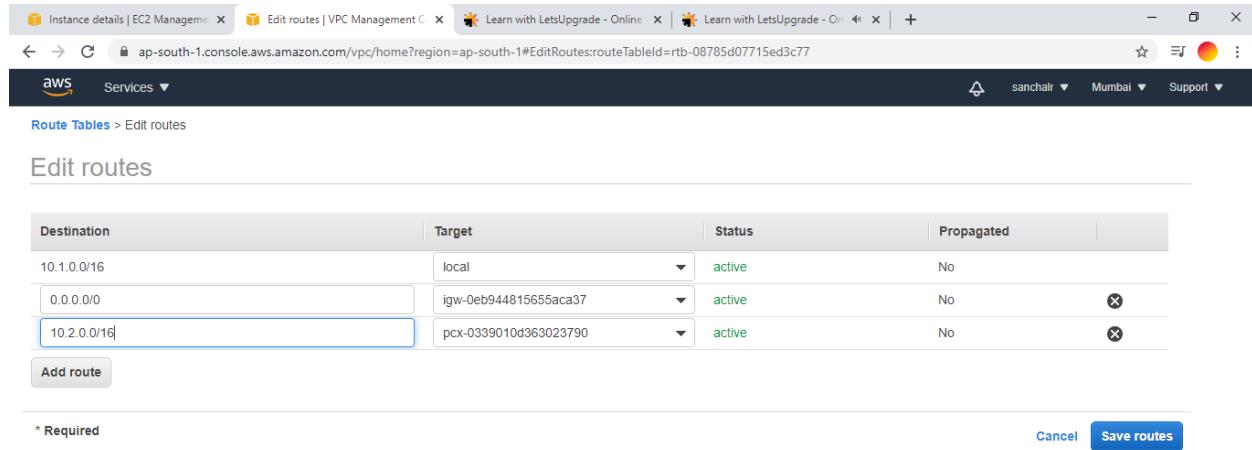
Feedback English (US) Type here to search © 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use 9:22 PM 11/2/2020

## ROUTE TABLE ENTRY FOR PUBLIC SUBNET

**ROUTE TABLE ENTRY IS USED TELL PACKETS WHICH ROUTES TO TAKE.**

**0.0.0.0/0- ALLOWS INBOUND HTTP ACCESS TO THE WEB SERVERS FROM ANY IPV4 ADDRESS.**

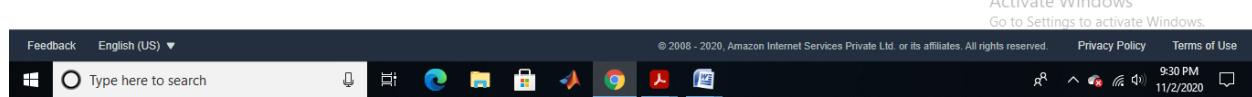
**OTHER ENTRY SPECIFIES THE PEERING CONNECTION BETWEEN ITSELF (MY-VPC) AND THE DESTINATION (VPC –B).**



Destination	Target	Status	Propagated
10.1.0.0/16	local	active	No
0.0.0.0/0	igw-0eb944815655aca37	active	No
10.2.0.0/16	pcx-0339010d363023790	active	No

**Add route**

\* Required Cancel Save routes

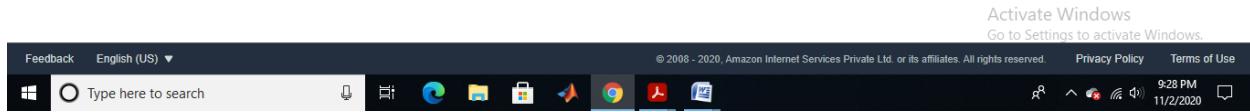


## **ROUTE TABLE ENTRY FOR PRIVATE SUBNET**

The screenshot shows the AWS VPC Management Console with the URL [ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#EditRoutes:routeTableId=rtb-03addea386bd496d1](https://ap-south-1.console.aws.amazon.com/vpc/home?region=ap-south-1#EditRoutes:routeTableId=rtb-03addea386bd496d1). The page title is "Edit routes". The table lists three routes:

Destination	Target	Status	Propagated
10.2.0.0/16	local	active	No
0.0.0.0/0	igw-007eacaf66451cf1d	active	No
10.1.0.0/16	pcx-0339010d363023790	active	No

Buttons at the bottom include "Add route", "Cancel", and "Save routes". A note says "\* Required".



### INSTANCE 1(PUBLIC) CREATED

**VIRTUAL INSTANCE IS CREATED AND THIS INSTANCE IS IDENTIFIED AS PUBLIC INSTANCE BECAUSE OF THE SUBNET ATTACHED WHILE LAUNCHING. AFTER SUBNET CREATION, WE SELECT AUTO ASSIGN IP ADDRESS, SO WE SELECT THIS OPTION AND AN IP IS ASSIGNED.**

## LT-AWS

Instance summary for i-0387ac204d0d49493 (Instance1) [Info](#)  
Updated less than a minute ago

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0387ac204d0d49493 (Instance1)	13.232.152.149   <a href="#">open address</a>	10.1.1.228
Instance state	Public IPv4 DNS	Private IPv4 DNS
Running	-	ip-10-1-1-228.ap-south-1.compute.internal
Instance type	Elastic IP addresses	VPC ID
t2.micro	-	vpc-02de7131cd2680066 (my-vpc)
IAM Role	Subnet ID	
-	subnet-06cb104bc50b2b67f (public subnet)	

AWS Compute Optimizer  
Opt-in to AWS Compute Optimizer for recommendations. [Learn more](#)

Activate Windows  
Go to Settings to activate Windows

## INSTANCE2 (PRIVATE) CREATED

**IN PRIVATE INSTANCE, IN THE SUBNET ATTACHED TO IT, DOESN'T HAVE THE AUTO ASSIGN IP ADDRESS CHECKED.**

Instance summary for i-03e9073a945e85dfd (Instance2) [Info](#)  
Updated less than a minute ago

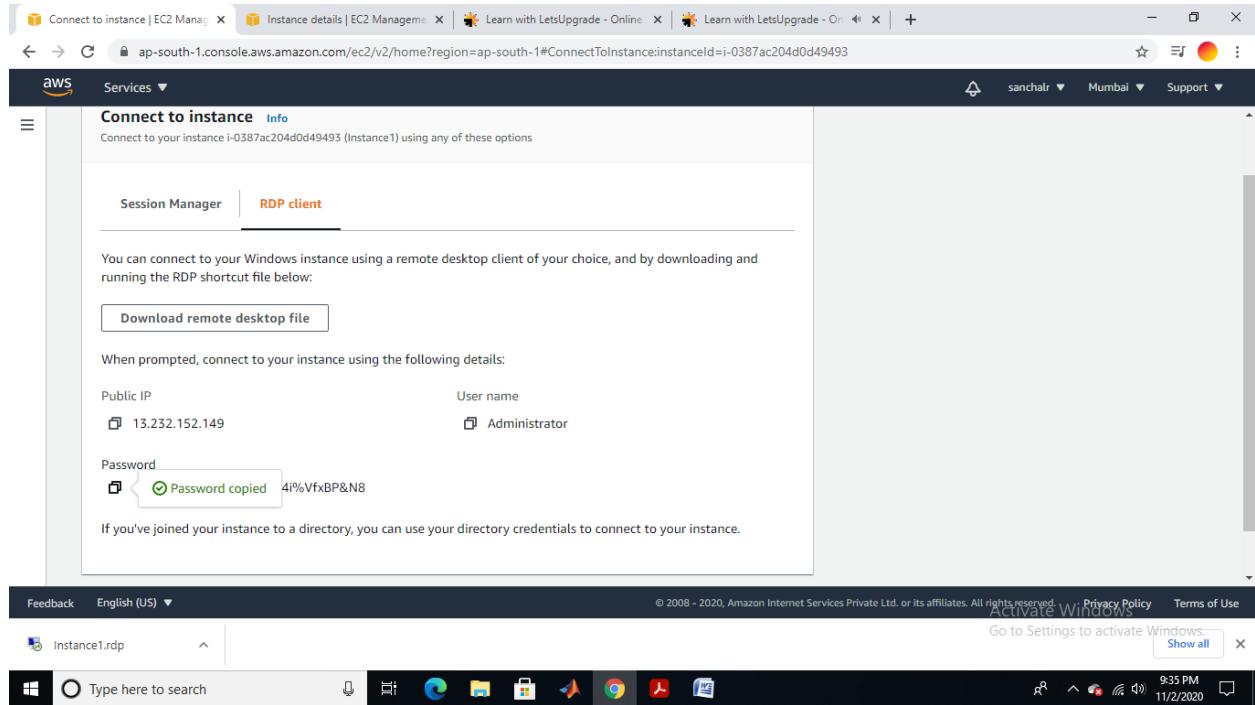
Instance ID	Public IPv4 address	Private IPv4 addresses
i-03e9073a945e85dfd (Instance2)	-	10.2.1.17
Instance state	Public IPv4 DNS	Private IPv4 DNS
Running	-	ip-10-2-1-17.ap-south-1.compute.internal
Instance type	Elastic IP addresses	VPC ID
t2.micro	-	vpc-0ca0cd51de138eb91 (vpc-b)
IAM Role	Subnet ID	
-	subnet-0d21083b16f285d1c (private-subnet)	

AWS Compute Optimizer  
Opt-in to AWS Compute Optimizer for recommendations. [Learn more](#)

Activate Windows  
Go to Settings to activate Windows

## CONNECTION FROM PUBLIC TO PRIVATE INSTANCE

## RDP FILE IS DOWNLOADED AND PASSWORD IS COPIED TO KNOW WHICH INSTANCE WE ARE CONNECTING TO.



## PRIVATE IP COPIED

CONNECTION TO THE PRIVATE INSTANCE FROM PUBLIC INSTANCE.

## LT-AWS

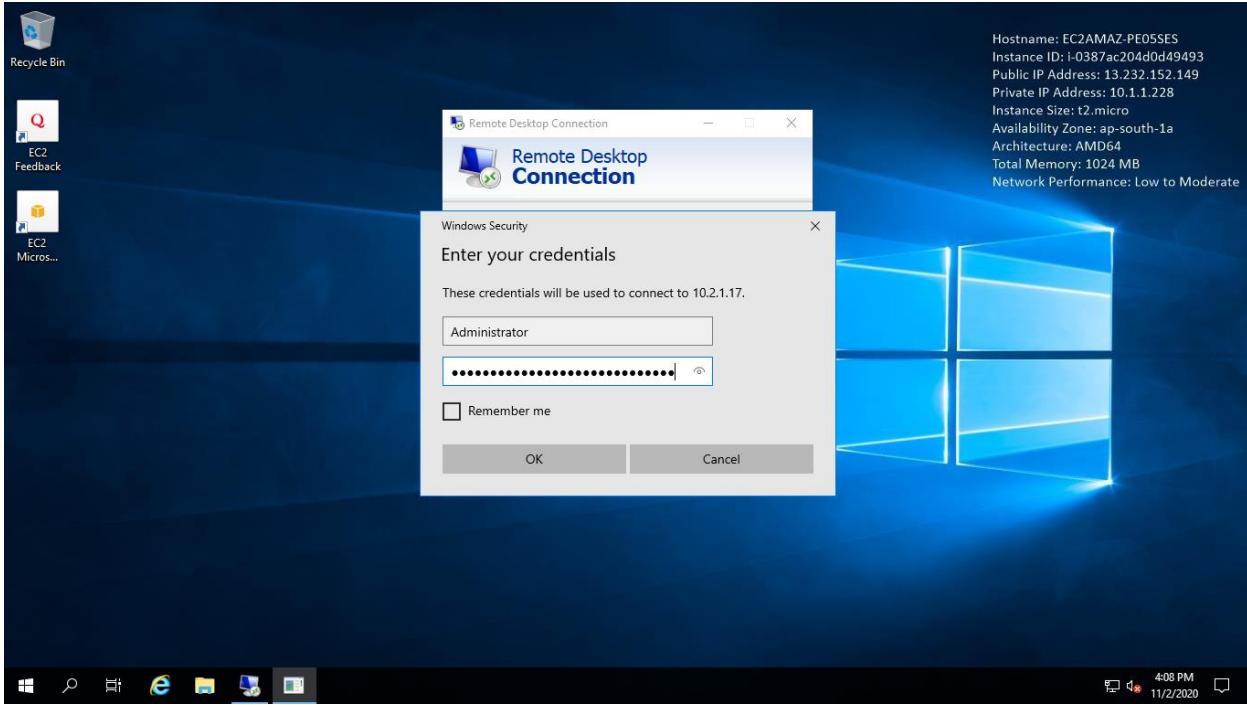
The screenshot shows the AWS EC2 Connect to instance page. It displays the 'RDP client' tab selected. A message indicates that you can connect using a remote desktop client or download an RDP shortcut file. Below this, connection details are provided: Private IP (10.1.1.228), User name (Administrator), and Password (zixp-jyDI-hKxFgDm;@Al?uD287sphVu). A note states that if joined to a directory, directory credentials can be used. A green callout bubble highlights the 'Private IP copied' message.

### RDP (REMOTE DESKTOP CONNECTION)

COPIED AND PASTED THE PASSWORD OF PRIVATE INSTANCE.

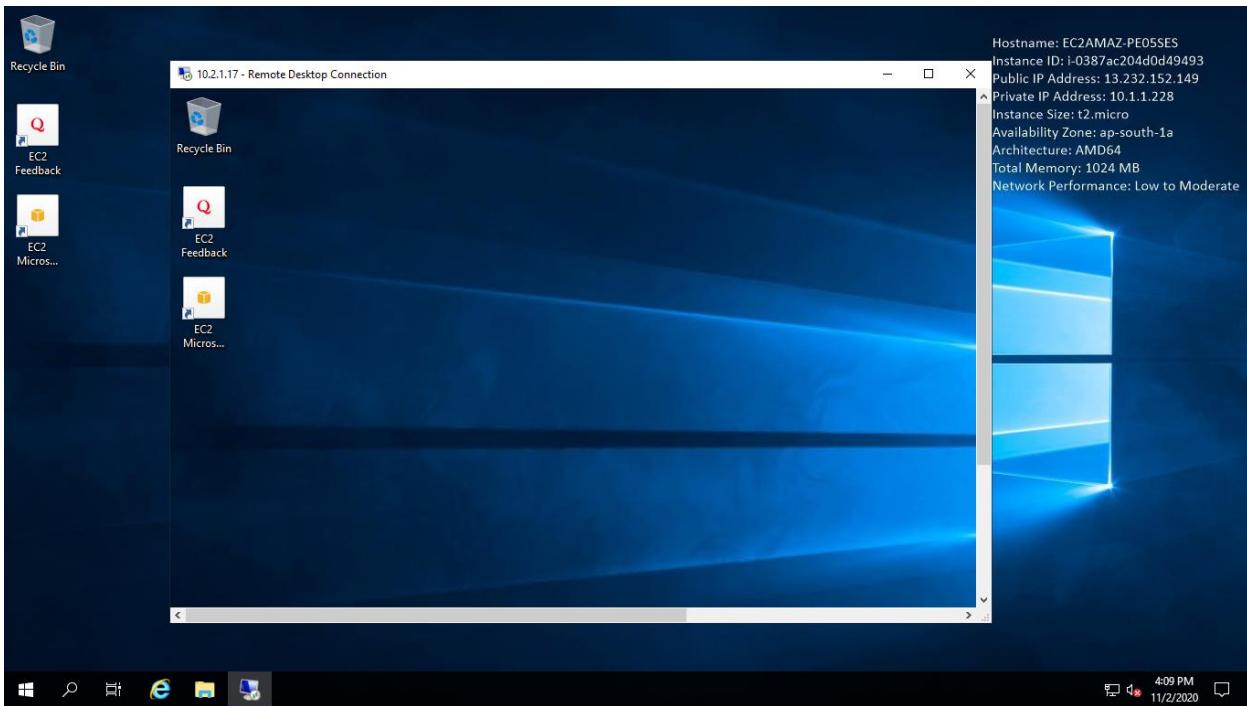
The screenshot shows a Windows 10 desktop environment. On the left, there's a folder named 'EC2 Feedback' containing three files: 'Instance2.rdp', 'EC2 Micros...', and 'Recycle Bin'. In the center, the 'Remote Desktop Connection' dialog box is open, showing the 'Computer:' field set to '10.2.1.17'. To the right of the dialog, detailed instance information is displayed: Hostname: EC2AMAZ-PE05SES, Instance ID: i-0387ac204d0d49493, Public IP Address: 13.232.152.149, Private IP Address: 10.1.1.228, Instance Size: t2.micro, Availability Zone: ap-south-1a, Architecture: AMD64, Total Memory: 1024 MB, and Network Performance: Low to Moderate. The system status bar at the bottom right shows the date and time as 11/2/2020 4:07 PM.

### PRIVATE SUBNET PASSWORD PASTED



**CONNECTED SUCCESSFULLY (BACKGROUND-PUBLIC & MINIMIZED-PRIVATE SUBNET)**

**THE FULL SCREEN IS PUBLIC INSTANCE AND MINIMIZED SCREEN IS PRIVATE INSTANCE WHICH SHOWS WE HAVE CONNECTED FROM PUBLIC INSTANCE TO PRIVATE INSTANCE.**



## IAM

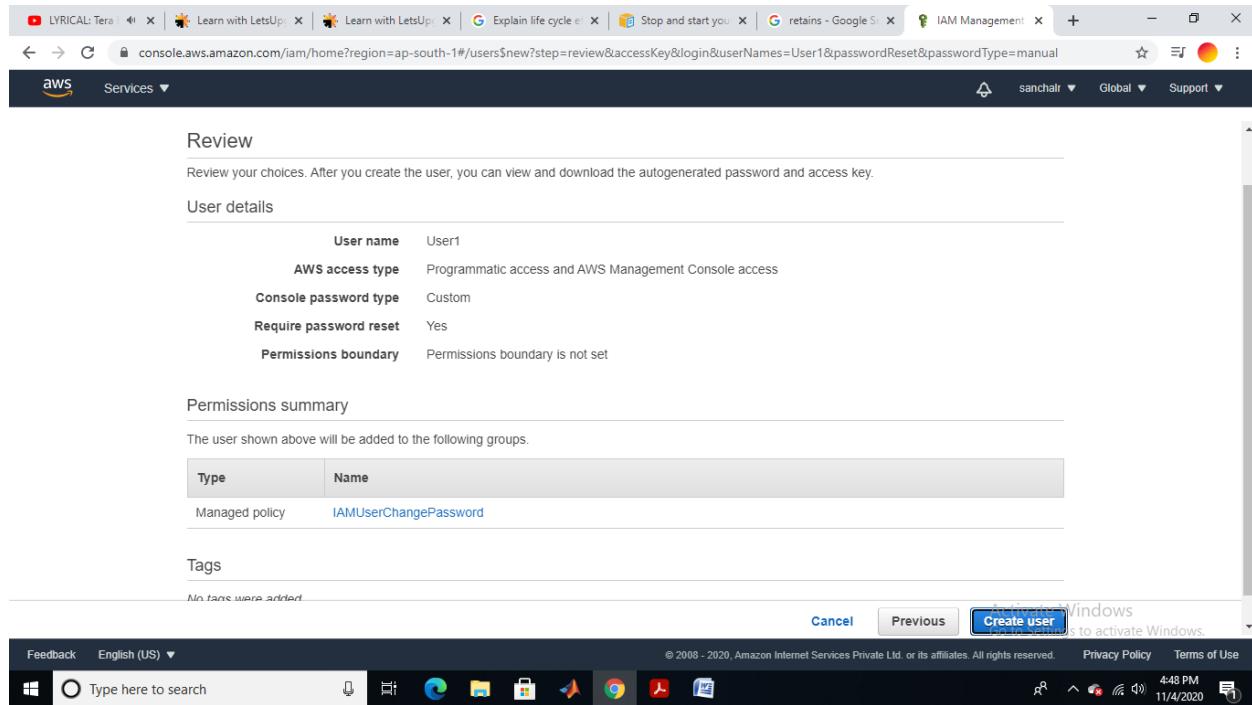
**AWS IDENTITY AND ACCESS MANAGEMENT (IAM) IS A WEB SERVICE FOR SECURELY CONTROLLING ACCESS TO AWS RESOURCES.**

**IT ENABLES YOU TO CREATE AND CONTROL SERVICES FOR USER AUTHENTICATION OR LIMIT ACCESS TO A CERTAIN SET OF PEOPLE WHO USE YOUR AWS RESOURCES.**

**THE COMPONENTS OF AWS ARE USERS, GROUPS, POLICIES AND ROLES.**

**FEATURES OF IAM ARE SHARED ACCESS TO AWS, GRANULAR PERMISSIONS, MULTIFACTOR AUTHENTICATION, IDENTITY FEDERATION, FREE TO USE, PASSWORD POLICY AND PCI DSS COMPLIANCE.**

### **TASK 1: CREATING USERS WITHOUT PERMISSIONS-IAM PASSWORD POLICY CHECK.**



The screenshot shows the 'Review' step of creating a new IAM user. It includes sections for 'User details', 'Permissions summary', and 'Tags'. The 'User details' section shows the user name 'User1' and other settings. The 'Permissions summary' section shows the user will be added to the 'IAMUserChangePassword' group. The 'Tags' section indicates 'No tags were added'. At the bottom, there are 'Cancel', 'Previous', and 'Create user' buttons, along with a note about activating Windows.

Type	Name
Managed policy	IAMUserChangePassword

## LT-AWS

The screenshot shows the AWS IAM password change interface. At the top, it says "You must change your password to continue". Below that, it displays the "AWS account" number (618543464581) and the "IAM user name" (User1). There are three input fields: "Old password", "New password", and "Retype new password". A blue button labeled "Confirm password change" is positioned below the fields. At the bottom left, there is a link "Sign in using root user email". The browser's address bar shows the URL: "signin.aws.amazon.com/clm?action=changepassword&userType=iam&redirect\_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3Fstate%3Dhash...". The status bar at the bottom right indicates the time is 8:03 PM on 11/4/2020.



The screenshot shows the AWS IAM dashboard. The left sidebar has a navigation menu under "Identity and Access Management (IAM)". The "Dashboard" option is selected. Other visible options include "Access management", "Access reports", and "Best practices". The main content area is titled "IAM dashboard" and contains sections for "IAM resources" and "Best practices". The "IAM resources" section lists errors related to iam:GetAccountSummary and iam>ListAccountAliases. The "Best practices" section provides several recommendations. On the right side, there is an "Additional information" panel with links to "IAM documentation", "Videos, IAM release history and additional resources", "Tools", "Web identity federation playground", "Policy simulator", and "Quick links" (with a "My access key" link). The browser's address bar shows the URL: "console.aws.amazon.com/iam/home?region=ap-south-1#/home". The status bar at the bottom right indicates the time is 8:04 PM on 11/4/2020.

**TASK 2: CREATING USERS WITHOUT THE IAM PASSWORD POLICY.**

**Review**

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

**A This user has no permissions**

You haven't given this user any permissions. This means that the user has no access to any AWS service or resource. Consider returning to the previous step and adding some type of permissions.

**User details**

User name	User2
AWS access type	Programmatic access and AWS Management Console access
Console password type	Custom
Require password reset	No
Permissions boundary	Permissions boundary is not set

**Tags**

No tags were added.

**Create user**

**Welcome to the new EC2 console!**

We're redesigning the EC2 console to make it easier to use and improve performance. We'll release new screens periodically. We encourage you to try them and let us know where we can make improvements. To switch between the old console and the new console, use the New EC2 Experience toggle.

**Resources**

You are using the following Amazon EC2 resources in the Asia Pacific (Mumbai) Region:

Running instances	✖ API Error	Dedicated Hosts	✖ API Error
Elastic IPs	✖ API Error	Instances (all states)	✖ API Error
Key pairs	✖ API Error	Load balancers	✖ API Error
Placement groups	✖ API Error	Security groups	✖ API Error
Snapshots	✖ API Error	Volumes	✖ API Error

**Account attributes**

- Supported platforms
- Default VPC
- Settings
- EBS encryption
- Zones
- Default credit specification
- Console experiments

**Explore AWS**

Activate Windows  
Save up to 90% on EC2 with Spot Instances activate Windows

**TASK 3: CREATE A USER WITH S3 FULL ACCESS.****USER WILL HAVE ONLY S3 SERVICE ACCESS.**

Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

User details

User name	sanch
AWS access type	Programmatic access and AWS Management Console access
Console password type	Custom
Require password reset	No
Permissions boundary	Permissions boundary is not set

Permissions summary

The following policies will be attached to the user shown above.

Type	Name
Managed policy	AmazonS3FullAccess

Tags

No tags were added.

Cancel Previous Create user Go to Settings to activate Windows Privacy Policy Terms of Use

Feedback English (US) ▾

Activate Windows Go to Settings to activate Windows.

Feedback English (US) ▾

Type here to search

Amazon S3

Buckets (1)

Buckets are containers for data stored in S3. Learn more

Find buckets by name

Name	Region	Access
sanch-bucket	Asia Pacific (Mumbai) ap-south-1	Objects can be pub...

IAM User: sanch

My Account 618543464581

My Organization

My Service Quotas

My Billing Dashboard

My Security Credentials

Switch Roles (UTC+05:30)

Create bucket

Sign Out

Feedback English (US) ▾

Type here to search

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8:12 PM 11/4/2020

Welcome to the new EC2 console!

We're redesigning the EC2 console to make it easier to use and improve performance. We'll release new screens periodically. We encourage you to try them and let us know where we can make improvements. To switch between the old console and the new console, use the New EC2 Experience toggle.

**Resources**

You are using the following Amazon EC2 resources in the Asia Pacific (Mumbai) Region:

Running instances	✖ API Error	Dedicated Hosts	✖ API Error
Elastic IPs	✖ API Error	Instances (all states)	✖ API Error
Key pairs	✖ API Error	Load balancers	✖ API Error
Placement groups	✖ API Error	Security groups	✖ API Error
Snapshots	✖ API Error	Volumes	✖ API Error

Easily size, configure, and deploy Microsoft SQL Server Always On availability groups on AWS using the AWS Launch Wizard for SQL Server. [Learn more](#)

**Account attributes**

- Supported platforms
- Default VPC
- Settings
- EBS encryption
- Zones
- Default credit specification
- Console experiments

**Explore AWS**

- Launch Custom AMIs with Fast Snapshot Restore (FSR)

## TASK4: CREATE A GROUP WITH EC2 FULL ACCESS

THE USERS IN GROUP WILL HAVE EC2 ACCESS ALONG WITH THEIR INDIVIDUAL ACCESS IF APPLIED.

Identity and Access Management (IAM)

Identity and Access Management (IAM) > Groups > project1

**Summary**

Group ARN: arn:aws:iam::618543464581:group/project1

Users (in this group): 0

Path: /

Creation Time: 2020-11-04 20:20 UTC+0530

**Users** **Permissions** **Access Advisor**

This group does not contain any users.

Add Users to Group

Activate Windows  
Go to Settings to activate Windows.

## LT-AWS

The screenshot shows the AWS IAM User Summary page for a user named 'User2'. The left sidebar navigation bar includes 'Identity and Access Management (IAM)' and 'Dashboard' under 'Access management', and 'Groups', 'Users', 'Roles', 'Policies', 'Identity providers', 'Account settings', 'Access reports', 'Archive rules', 'Analyzers', 'Settings', 'Credential report', and 'Organization activity'. The main content area displays the 'Summary' for User2, showing the User ARN (arn:aws:iam::618543464581:user/User2), Path (/), and Creation time (2020-11-04 20:07 UTC+0530). Below this, there are tabs for 'Permissions', 'Groups (1)', 'Tags', 'Security credentials', and 'Access Advisor'. The 'Permissions' tab is active, showing 'Permissions policies (1 policy applied)'. A button for 'Add permissions' is present, along with a link to 'Add inline policy'. A table lists the attached policy: 'AmazonEC2FullAccess' (AWS managed policy from group project1). There is also a section for 'Permissions boundary (not set)'. At the bottom right, there is an 'Activate Windows' message with a link to 'Go to Settings to activate Windows.'

The screenshot shows the AWS IAM User Summary page for a user named 'sanch'. The left sidebar navigation bar is identical to the previous screenshot. The main content area displays the 'Summary' for user 'sanch', showing the User ARN (arn:aws:iam::618543464581:user/sanch), Path (/), and Creation time (2020-11-04 20:13 UTC+0530). Below this, there are tabs for 'Permissions', 'Groups (1)', 'Tags', 'Security credentials', and 'Access Advisor'. The 'Permissions' tab is active, showing 'Permissions policies (2 policies applied)'. A button for 'Add permissions' is present, along with a link to 'Add inline policy'. A table lists the attached policies: 'AmazonS3FullAccess' (AWS managed policy) and 'AmazonEC2FullAccess' (AWS managed policy from group project1). There is also a section for 'Permissions boundary (not set)'. At the bottom right, there is an 'Activate Windows' message with a link to 'Go to Settings to activate Windows.'

## TASK 5: ADD USER TO A GROUP AND CHECK IF USER POLICY AND THE GROUP POLICY IS REFLECTING ON THE USER

**SANCH HAS S3 FULL ACCESS AND SINCE ITS ADDED IN GROUP PROJECT1, IT HAS EC2 ACCESS ALSO WHEREAS USER2 IS ADDED TO GROUP SO IT HAS EC2 FULL ACCESS ONLY AS NO INDIVIDUAL POLICY IS ADDED TO IT.**

The screenshot shows the AWS IAM Groups page for the 'project1' group. The left sidebar shows the 'Groups' section is selected. The main content area displays the group summary with the ARN: arn:aws:iam::618543464581:group/project1, 2 users in the group, and a creation time of 2020-11-04 20:20 UTC+0530. Below this, there are tabs for 'Users', 'Permissions', and 'Access Advisor'. The 'Users' tab is selected, showing a table with two rows: 'User2' and 'sanch', each with a 'Remove User from Group' button.

The screenshot shows the AWS IAM User page for 'User2'. The left sidebar shows the 'Users' section is selected. The main content area displays the user summary with the ARN: arn:aws:iam::618543464581:user/User2, a path of '/', and a creation time of 2020-11-04 20:07 UTC+0530. Below this, there are tabs for 'Permissions', 'Groups (1)', 'Tags', 'Security credentials', and 'Access Advisor'. The 'Permissions' tab is selected, showing a table with one row: 'AmazonEC2FullAccess' (AWS managed policy from group project1). There is also a 'Delete user' button and a 'Summary' table below the permissions table.

**Step 1: Choose an Amazon Machine Image (AMI)**

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Cancel and Exit

Quick Start

- My AMIs
- AWS Marketplace
- Community AMIs
- Free tier only (i)

Image	Name	Description	Select
Amazon Linux	Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0e306788ff2473ccb (64-bit x86) / ami-001e484a60bb07f8d (64-bit Arm)	Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras.	<input checked="" type="button" value="Select"/>
Red Hat	Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-052c08d70def0ac62 (64-bit x86) / ami-0ad289a92ed067259 (64-bit Arm)	Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type	<input checked="" type="button" value="Select"/>

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## TASK 6: COPY POLICIES FROM THE EXISTING USER

### COPYING PERMISSIONS OF USER SANCH.

Set permissions

Add user to group Copy permissions from existing user Attach existing policies directly

Select an existing user from which to copy policies and group membership.

Copy permissions from existing user

Showing 3 results

User name	Groups	Attached policies
sanch	project1	AmazonS3FullAccess
User1	None	IAMUserChangePassword
User2	project1	None

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## LT-AWS

The screenshot shows the AWS EC2 Instances page. The left sidebar is collapsed, showing the 'Instances' section with 'Instances' selected. The main content area is titled 'Instances Info' and displays a table with one row: 'Select an instance above'. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm Status, and Availability zone.

## A S3 BUCKET NAMED SANCH-BUCKET IS CREATED.

The screenshot shows the AWS S3 Buckets page. The left sidebar is expanded, showing the 'Buckets' section. The main content area is titled 'Buckets (1)' and displays a table with one row: 'sanch-bucket'. The table has columns for Name, Region, Access, and Creation date.

Name	Region	Access	Creation date
sanch-bucket	Asia Pacific (Mumbai) ap-south-1	Objects can be public	November 4, 2020, 20:14 (UTC+05:30)

## LT-AWS

The screenshot shows the AWS IAM 'Create New User' wizard at step 4: 'Review'. It displays the user details and permissions summary for a user named 'arushi'. The user has 'Programmatic access and AWS Management Console access' and a 'Custom' console password type. The permissions summary shows that the 'project1' group and the 'AmazonS3FullAccess' managed policy will be attached to the user.

User details:

- User name: arushi
- AWS access type: Programmatic access and AWS Management Console access
- Console password type: Custom
- Require password reset: No
- Permissions boundary: Permissions boundary is not set

Permissions summary:

The following groups and policies will be copied from the selected existing user and attached to the user shown above.

Type	Name
Group	project1
Managed policy	AmazonS3FullAccess

### TASK 7: ADD USER TO A GROUP IN THE PROCESS OF CREATING A USER

**USER ARUSHI IS ADDED.**

The screenshot shows the 'Set permissions' step of the AWS IAM 'Create New User' wizard. It allows adding the user to an existing group or creating a new one. The 'Add user to group' section shows the 'project1' group selected, which has the 'AmazonEC2FullAccess' policy attached. The 'Create group' button is also visible.

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

Add user to group

Create group Refresh

Group	Attached policies
project1	AmazonEC2FullAccess

Cancel Previous Next Tags

## LT-AWS

The screenshot shows the AWS EC2 Instances page. The left sidebar includes options like New EC2 Experience, EC2 Dashboard, Events, Tags, Limits, Instances (with sub-options like Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, and Capacity Reservations), and Images. The main content area displays a table with columns: Name, Instance ID, Instance state, Instance type, Status check, Alarm Status, and Availability zone. A search bar at the top says 'Filter instances' and has dropdowns for 'Instance state: running' and 'Clear filters'. Below the table, it says 'Select an instance above'. The bottom of the screen shows a Windows taskbar with various icons and a system tray indicating the date and time.

## TASK8: SETTING A PASSWORD POLICY

The screenshot shows the AWS IAM Password policy settings page. The left sidebar lists Identity and Access Management (IAM) options such as Dashboard, Access management (Groups, Users, Roles, Policies, Identity providers, Account settings), Access reports (Access analyzer, Archive rules, Analyzers, Settings), and Security Token Service (STS). The main content area shows a green success message box stating 'Password policy updated.' It also contains a section titled 'Password policy' with the sub-section 'This AWS account uses a password policy'. Below this is a list of password policy rules: Minimum password length is 9 characters, Require at least one uppercase letter from Latin alphabet (A-Z), Require at least one lowercase letter from Latin alphabet (a-z), Require at least one number, Require at least one non-alphanumeric character (! @ # \$ % ^ & \* ( ) \_ + - = [ ] { } | ' ), Password expires in 90 days, Allow users to change their own password, and Remember last 2 password(s) and prevent reuse. At the bottom are 'Change password policy' and 'Delete password policy' buttons. The bottom of the screen shows a Windows taskbar with various icons and a system tray indicating the date and time.

Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

**⚠ This user has no permissions**

You haven't given this user any permissions. This means that the user has no access to any AWS service or resource. Consider returning to the previous step and adding some type of permissions.

User details

User name	prerna
AWS access type	Programmatic access and AWS Management Console access
Console password type	Custom
Require password reset	No
Permissions boundary	Permissions boundary is not set

Tags

Cancel Previous Create user

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new\_user\_credentiali....csv new\_user\_credentiali....csv

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### TASK 9: ENABLING MFA AND USING AN MFA DEVICE

MULTI FACTOR AUTHENTICATION IS AN EXTRA MECHANISM OF SECURITY ALONG WITH USERNAME AND PASSWORD. IT CAN ALSO BE USED TO CONTROL ACCESS TO AWS SERVICE APIs. THERE IS NO ADDITIONAL FEE FOR USING MFA ONCE A SUPPORTED HARDWARE VIRTUAL MFA DEVICE IS USED.

aws

Multi-factor authentication

Your account is secured using multi-factor authentication (MFA). To finish signing in, turn on or view your MFA device and type the authentication code below.

Email address: sanchair002@gmail.com

MFA code: 860487

Submit

Troubleshoot MFA

Cancel

Amazon DocumentDB (with MongoDB compatibility)

New role-based access control (RBAC) support helps you enforce least privilege access, and build multi-tenant applications

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