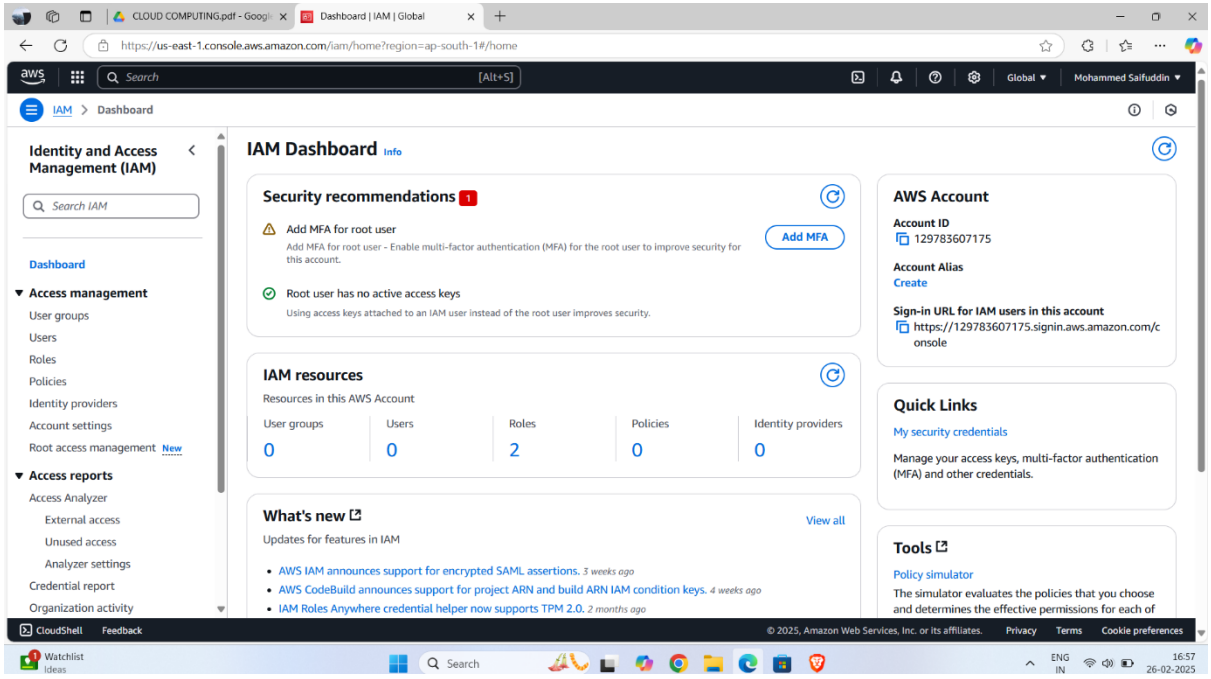
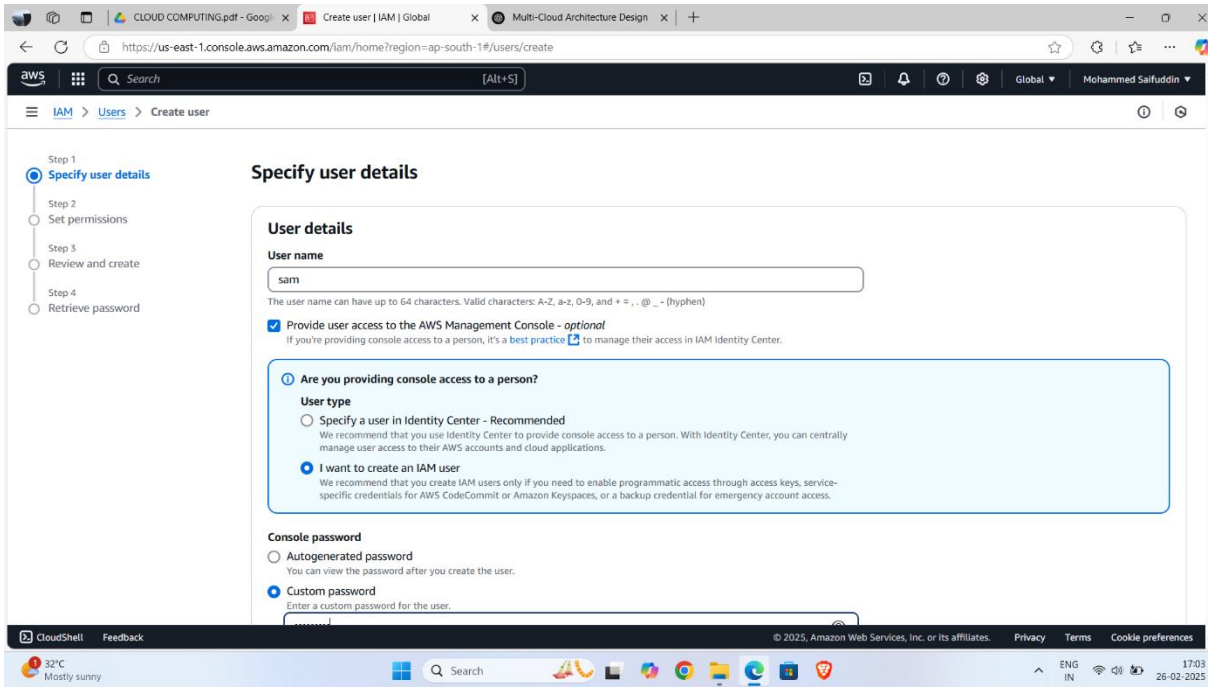
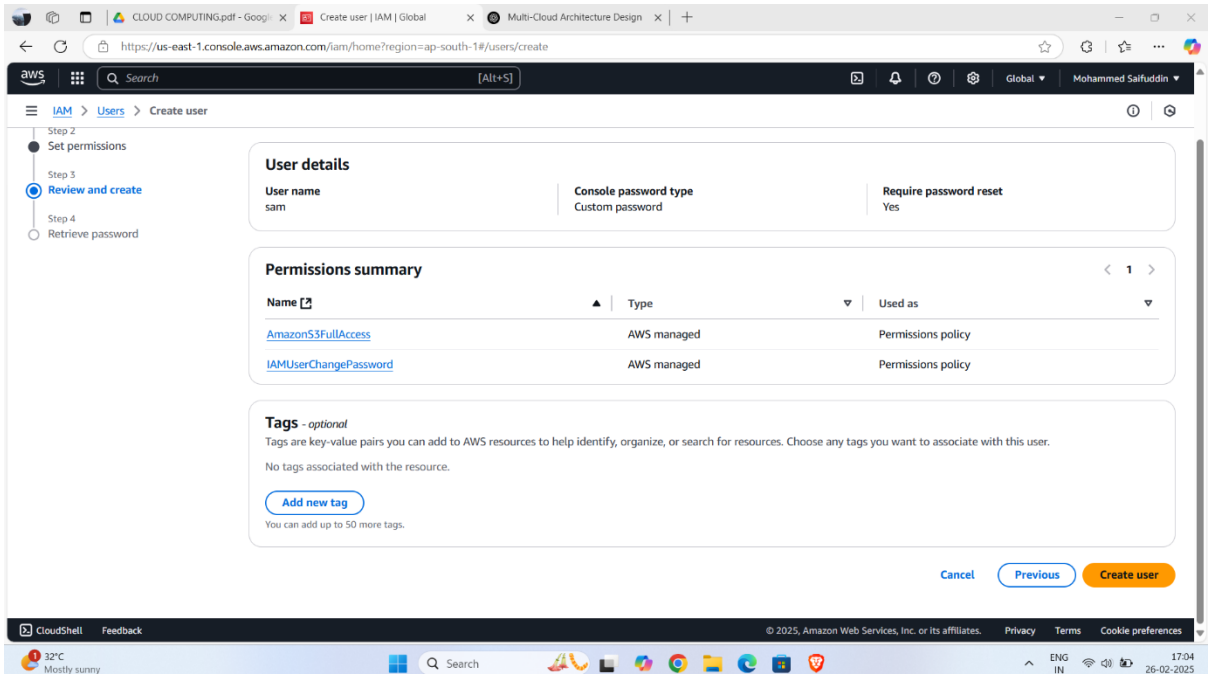
TASK -4

IMPLEMENT IAM POLICIES, SECURE STORAGE, AND DATA ENCRYPTION ON A CLOUD PLATFORM.



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Create user | IAM | Global
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https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/create
Search
[Alt+S]
Global
Mohammed Saifuddin
IAM > Users > Create user
Step 2
Set permissions
Step 3
Review and create
Step 4
Retrieve password
User details
User name
sam
Console password type
Custom password
Require password reset
Yes
Permissions summary
Name
Type
Used as
AmazonS3FullAccess
AWS managed
Permissions policy
IAMUserChangePassword
AWS managed
Permissions policy
Tags - optional
Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.
No tags associated with the resource.
Add new tag
You can add up to 50 more tags.
Cancel
Previous
Create user
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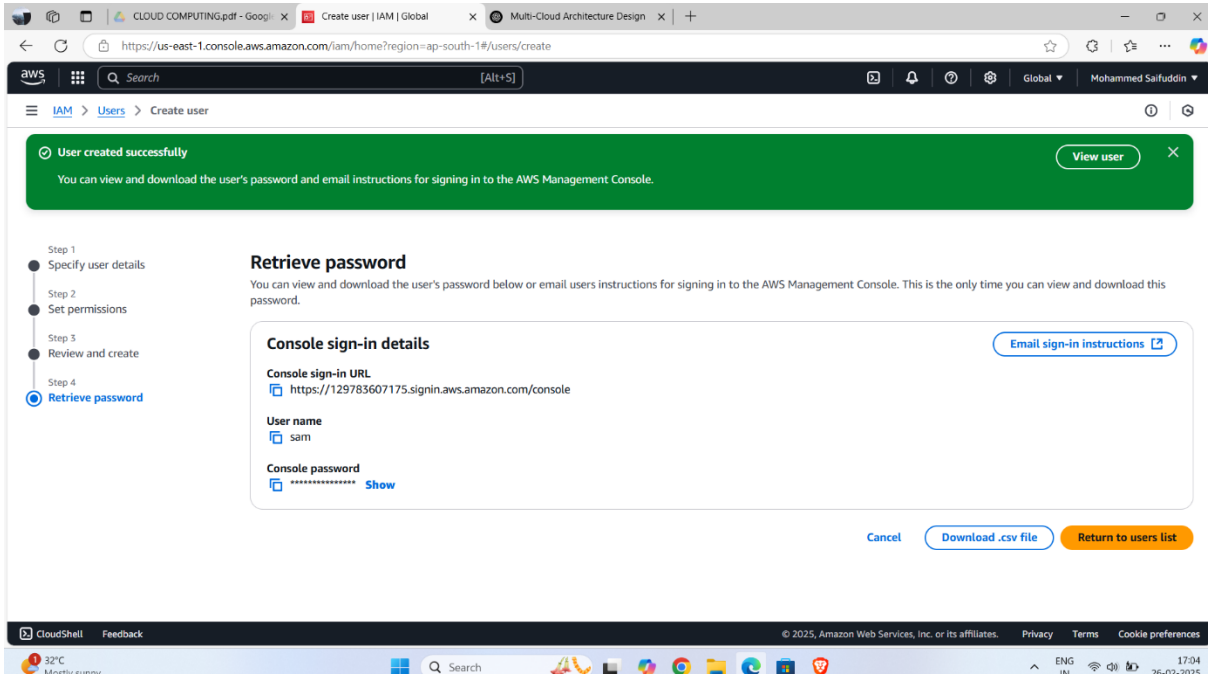
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Search
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IAM > Users > Create user
User created successfully
You can view and download the user's password and email instructions for signing in to the AWS Management Console.
View user
Step 1
Specify user details
Step 2
Set permissions
Step 3
Review and create
Step 4
Retrieve password
Retrieve password
You can view and download the user's password below or email users instructions for signing in to the AWS Management Console. This is the only time you can view and download this password.
Console sign-in details
Email sign-in instructions
Console sign-in URL
https://129783607175.signin.aws.amazon.com/console
User name
sam
Console password
********** Show
Cancel
Download .csv file
Return to users list
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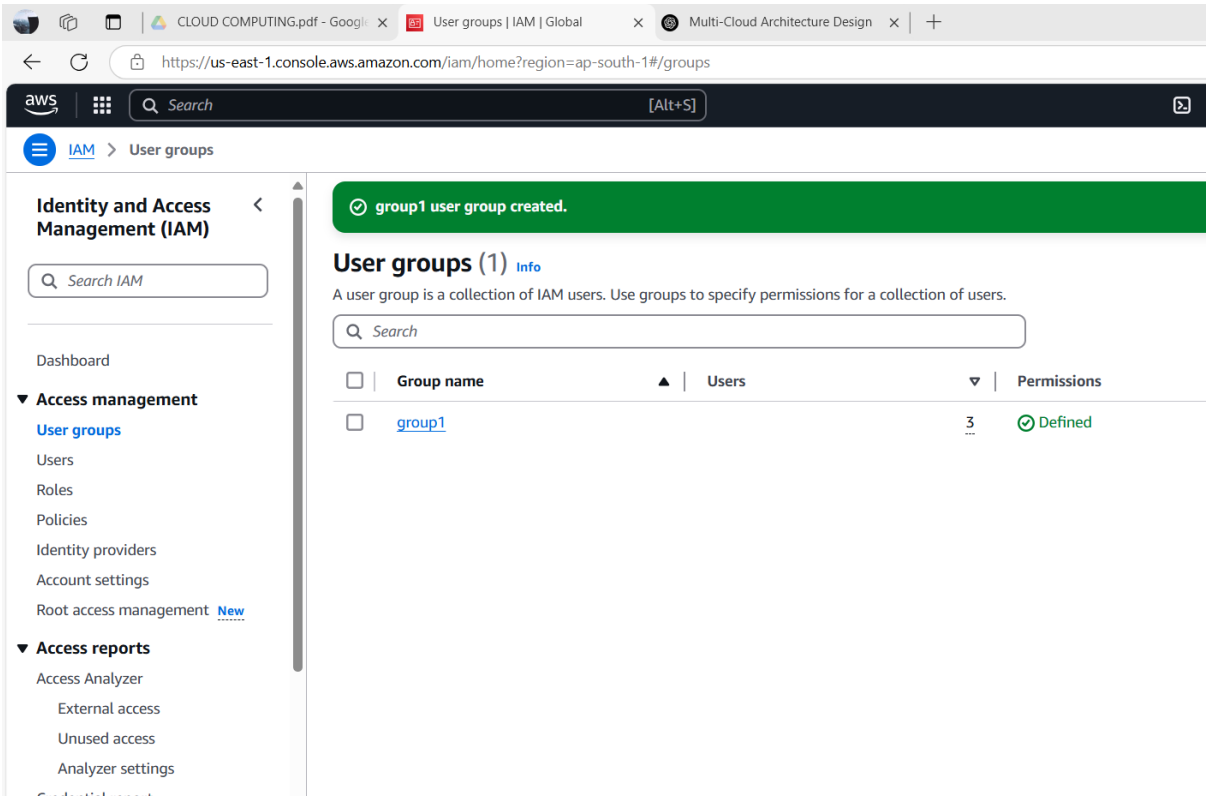
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User groups | IAM | Global
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https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/groups
Search
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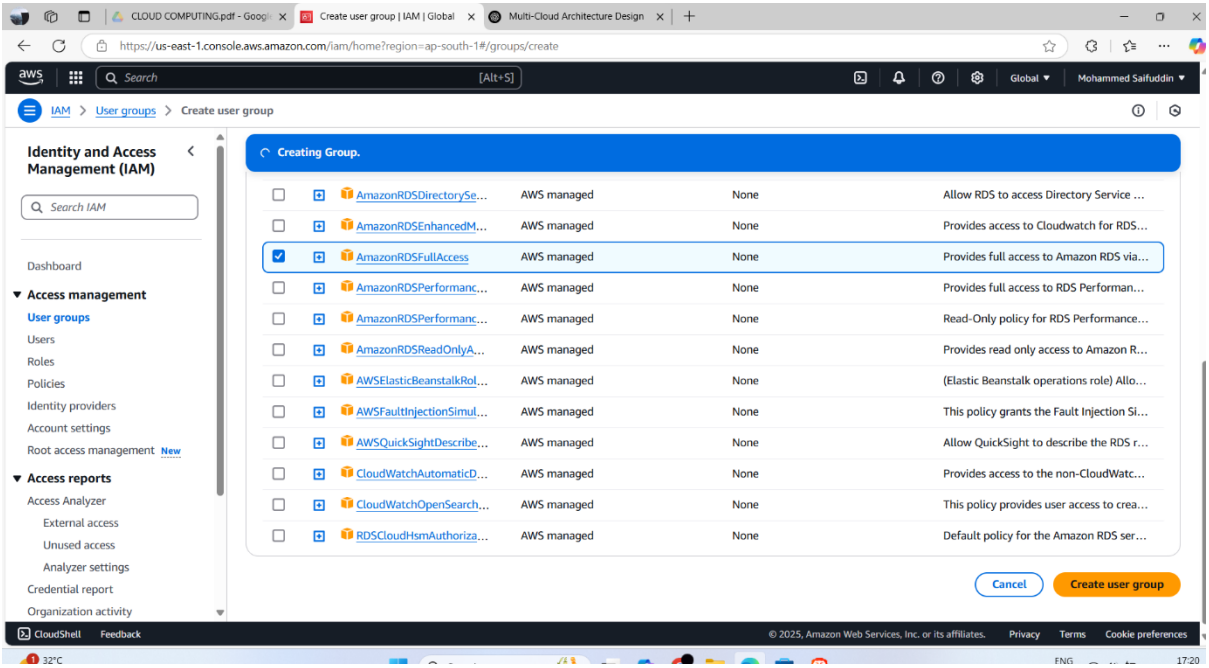
IAM > User groups
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Root access management New
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
group1 user group created.
User groups (1) Info
A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.
Search
Group name
Users
Permissions
group1
3
Defined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Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Root access management New
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
Credential report
Organization activity
Creating Group.
AmazonRDSDirectorySe... AWS managed None Allow RDS to access Directory Service ...
AmazonRDSEnhancedM... AWS managed None Provides access to Cloudwatch for RDS...
AmazonRDSFullAccess AWS managed None Provides full access to Amazon RDS via...
AmazonRDSPerformanc... AWS managed None Provides full access to RDS Performan...
AmazonRDSPerformanc... AWS managed None Read-Only policy for RDS Performance...
AmazonRDSReadOnlyA... AWS managed None Provides read only access to Amazon R...
AWSElasticBeanstalkRol... AWS managed None (Elastic Beanstalk operations role) Allo...
AWSFaultInjectionSimul... AWS managed None This policy grants the Fault Injection Si...
AWSQuickSightDescribe... AWS managed None Allow QuickSight to describe the RDS r...
CloudWatchAutomaticD... AWS managed None Provides access to the non-CloudWatc...
CloudWatchOpenSearch... AWS managed None This policy provides user access to crea...
RDSCloudHsmAuthoriza... AWS managed None Default policy for the Amazon RDS ser...
Cancel
Create user group
CloudShell
Feedback
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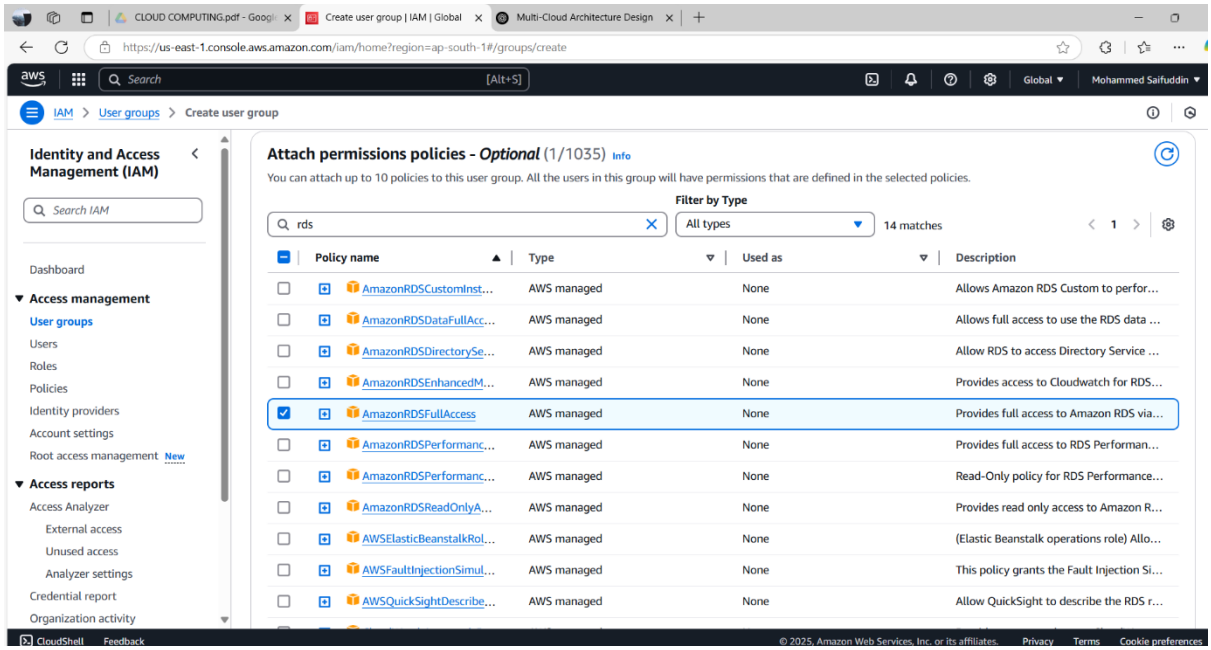
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Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Root access management New
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
Credential report
Organization activity
Attach permissions policies - Optional (1/1035) Info
You can attach up to 10 policies to this user group. All the users in this group will have permissions that are defined in the selected policies.
Filter by Type
rds
All types
14 matches
Policy name
Type
Used as
Description
AmazonRDSCustomInst...
AWS managed
None
Allows Amazon RDS Custom to perfor...
AmazonRDSDataFullAcc...
Allows full access to use the RDS data ...
AmazonRDSDirectorySe...
Allow RDS to access Directory Service ...
AmazonRDSEnhancedM...
Provides access to Cloudwatch for RDS...
AmazonRDSFullAccess
Provides full access to Amazon RDS via...
AmazonRDSPerformanc...
Provides full access to RDS Performan...
Read-Only policy for RDS Performance...
AmazonRDSReadOnlyA...
Provides read only access to Amazon R...
AWSElasticBeanstalkRol...
(Elastic Beanstalk operations role) Allo...
AWSFaultInjectionSimul...
This policy grants the Fault Injection Si...
AWSQuickSightDescribe...
Allow QuickSight to describe the RDS r...
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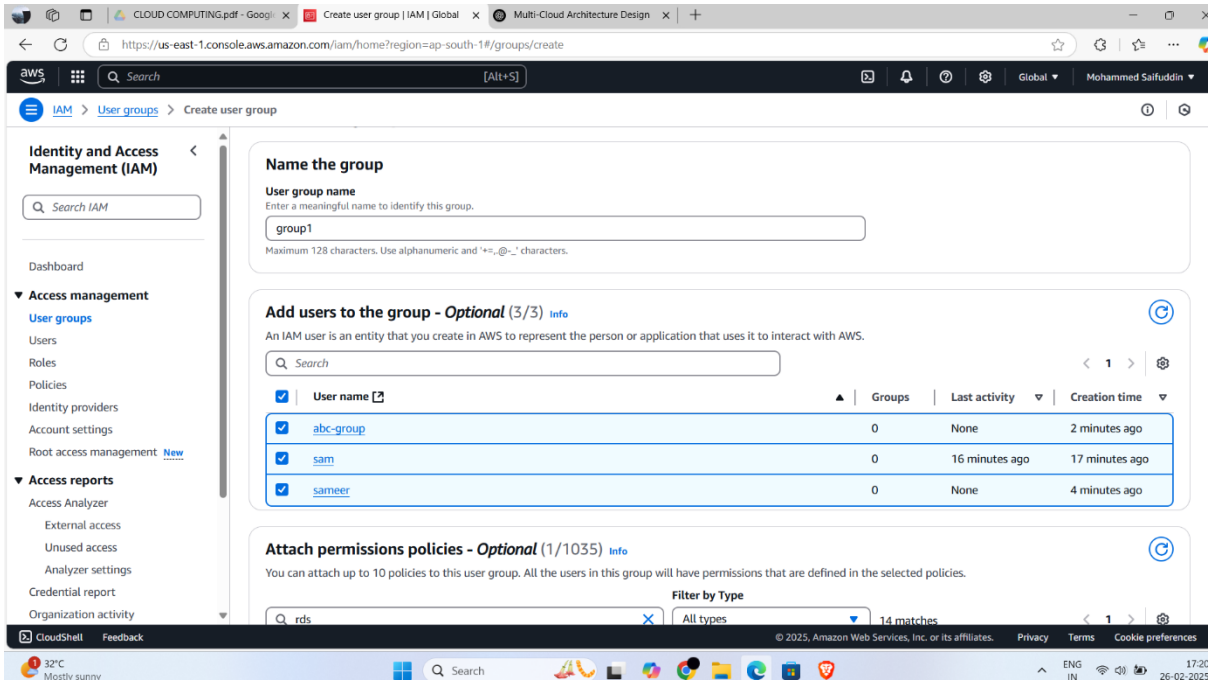
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Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Root access management New
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
Credential report
Organization activity
Name the group
User group name
Enter a meaningful name to identify this group.
group1
Maximum 128 characters. Use alphanumeric and '+=,.@-_' characters.
Add users to the group - Optional (3/3) Info
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.
Search
User name
Groups
Last activity
Creation time
abc-group
0
None
2 minutes ago
sam
16 minutes ago
17 minutes ago
sameer
4 minutes ago
Attach permissions policies - Optional (1/1035) Info
You can attach up to 10 policies to this user group. All the users in this group will have permissions that are defined in the selected policies.
Filter by Type
rds
All types
14 matches
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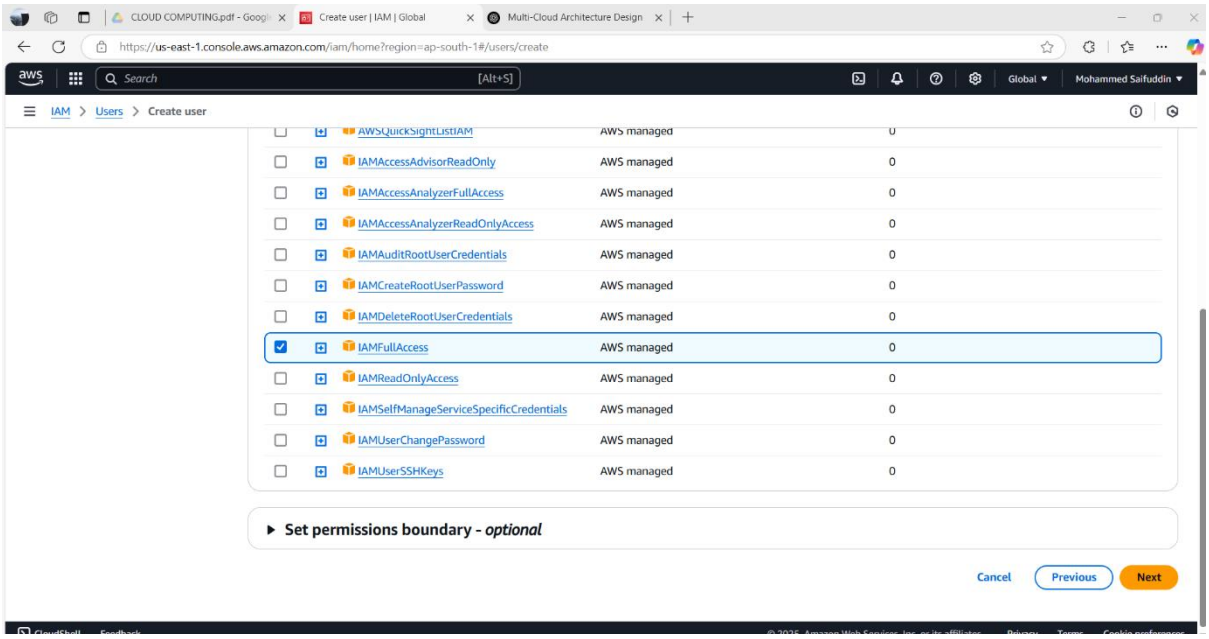
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Search [Alt+S]
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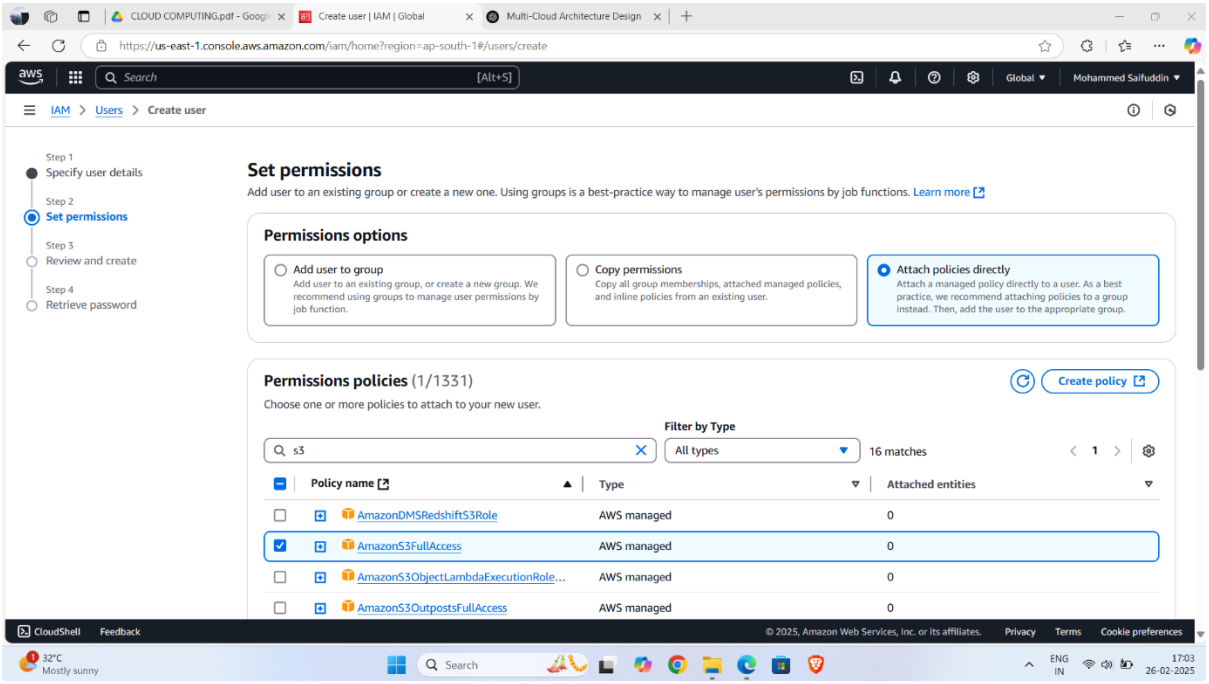
IAM > Users > Create user
AWSQuickSightListIAM AWS managed 0
IAMAccessAdvisorReadOnly AWS managed 0
IAMAccessAnalyzerFullAccess AWS managed 0
IAMAccessAnalyzerReadOnlyAccess AWS managed 0
IAMAuditRootUserCredentials AWS managed 0
IAMCreateRootUserPassword AWS managed 0
IAMDeleteRootUserCredentials AWS managed 0
IAMFullAccess AWS managed 0
IAMReadOnlyAccess AWS managed 0
IAMSelfManageServiceSpecificCredentials AWS managed 0
IAMUserChangePassword AWS managed 0
IAMUserSSHKeys AWS managed 0
Set permissions boundary - optional
Cancel
Previous
Next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Search [Alt+S]
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IAM > Users > Create user
Step 1
Specify user details
Step 2
Set permissions
Step 3
Review and create
Step 4
Retrieve password
Set permissions
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
Permissions options
Add user to group
Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.
Copy permissions
Copy all group memberships, attached managed policies, and inline policies from an existing user.
Attach policies directly
Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.
Permissions policies (1/1331)
Choose one or more policies to attach to your new user.
Create policy
Filter by Type
s3
All types
16 matches
Policy name
Type
Attached entities
AmazonDMSRedshiftS3Role AWS managed 0
AmazonS3FullAccess AWS managed 0
AmazonS3ObjectLambdaExecutionRole... AWS managed 0
AmazonS3OutpostsFullAccess AWS managed 0
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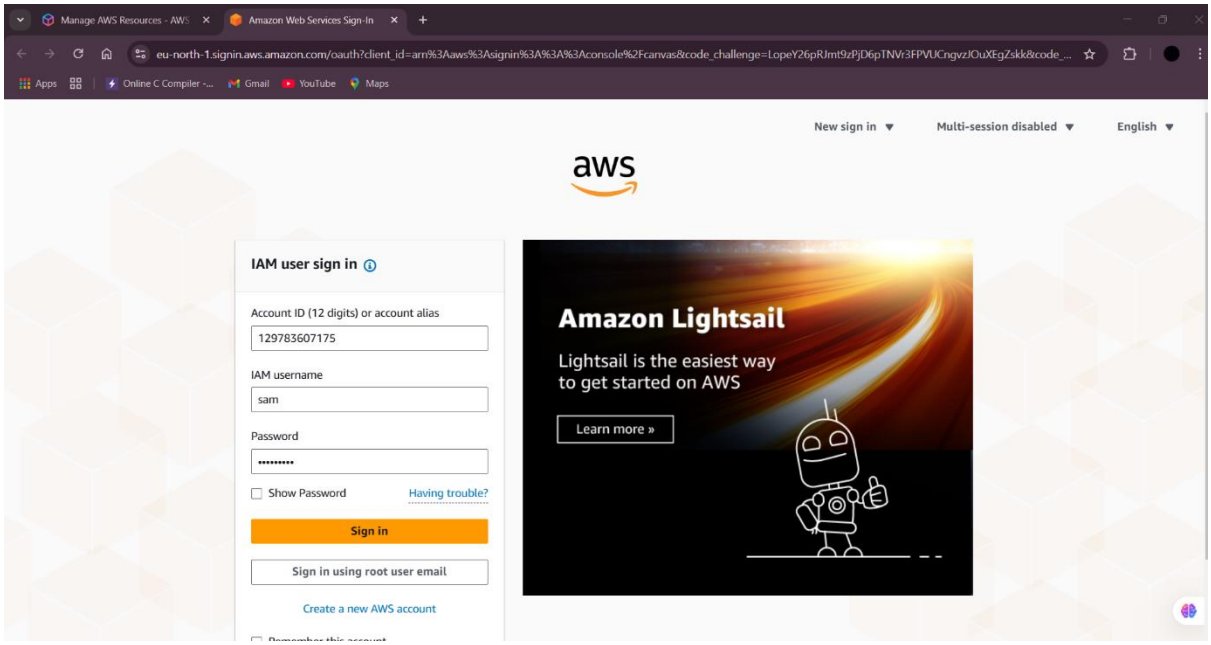
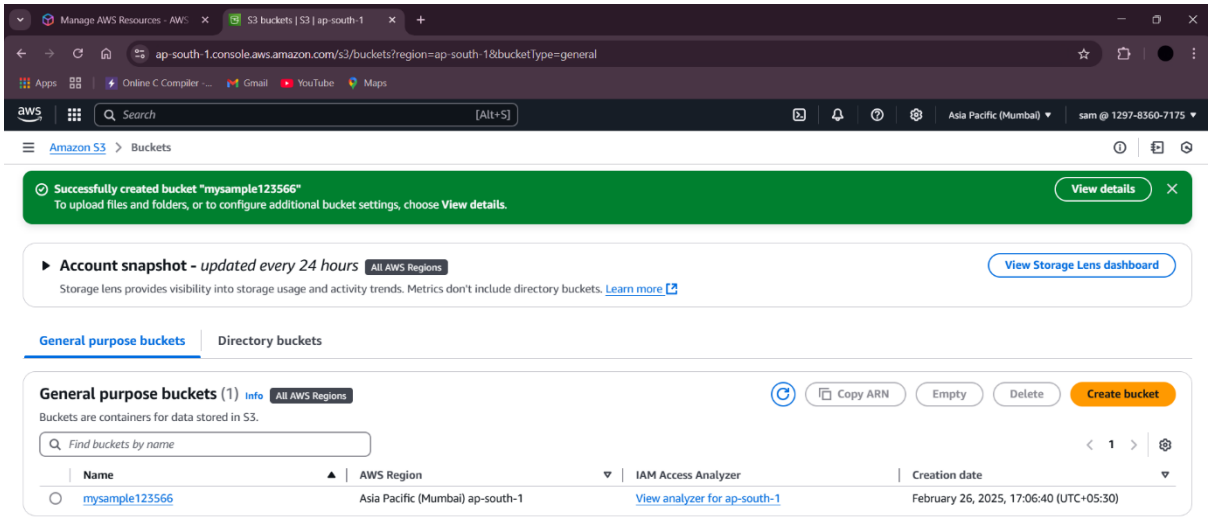
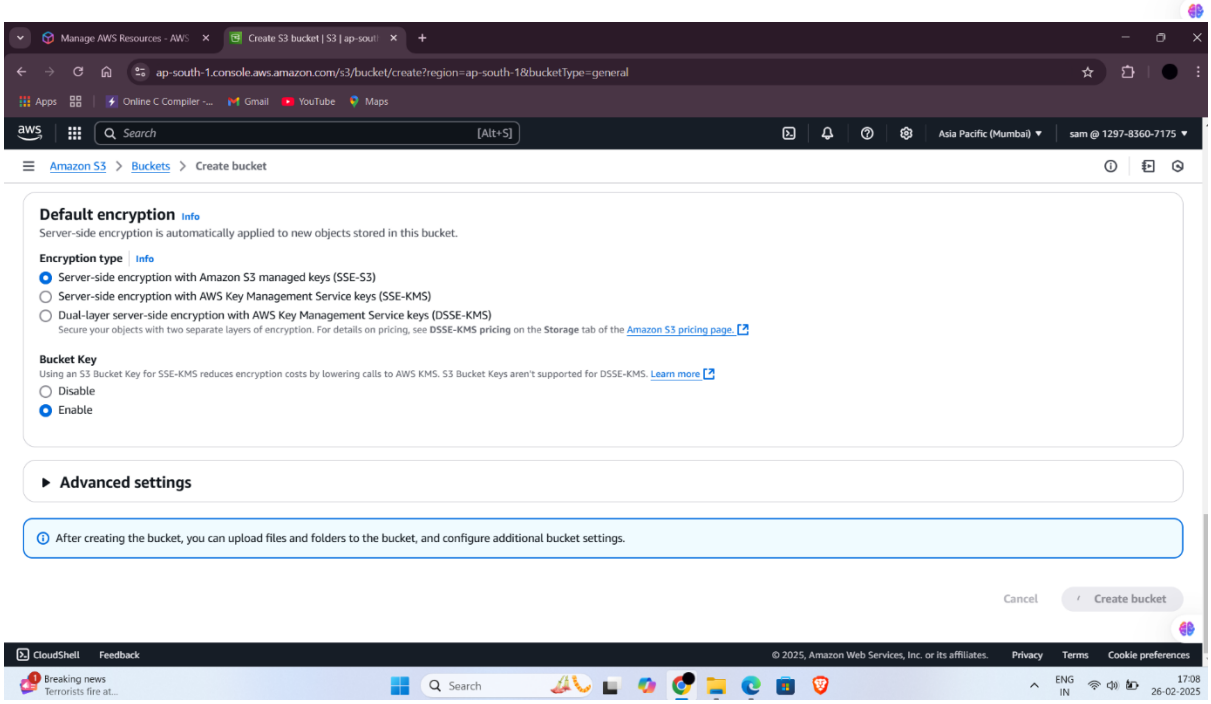

Manage AWS Resources - AWS
Amazon Web Services Sign-In
eu-north-1.signin.aws.amazon.com/oauth?client_id=arn%3Aaws%3Asignin%3A%3A%3Aconsole%2Fcanvas&code_challenge=LopeY26pRJmt9zPjD6pTNVr3FPVUCngvzJOuXEgZskk&code_...
Apps
Online C Compiler -...
Gmail
YouTube
Maps
New sign in
Multi-session disabled
English
aws
IAM user sign in
Account ID (12 digits) or account alias
129783607175
IAM username
sam
Password
Show Password
Having trouble?
Sign in
Sign in using root user email
Create a new AWS account
Amazon Lightsail
Lightsail is the easiest way to get started on AWS
Learn more »


Manage AWS Resources - AWS
S3 buckets | S3 | ap-south-1
ap-south-1.console.aws.amazon.com/s3/buckets?region=ap-south-1&bucketType=general
Apps
Online C Compiler -...
Gmail
YouTube
Maps
Search
[Alt+S]
Asia Pacific (Mumbai)
sam @ 1297-8360-7175
Amazon S3 > Buckets
Successfully created bucket "mysample123566"
To upload files and folders, or to configure additional bucket settings, choose View details.
View details
Account snapshot - updated every 24 hours
All AWS Regions
Storage lens provides visibility into storage usage and activity trends. Metrics don't include directory buckets. Learn more
View Storage Lens dashboard
General purpose buckets
Directory buckets
General purpose buckets (1) Info
All AWS Regions
Buckets are containers for data stored in S3.
Copy ARN
Empty
Delete
Create bucket
Find buckets by name
Name
AWS Region
IAM Access Analyzer
Creation date
mysample123566
Asia Pacific (Mumbai) ap-south-1
View analyzer for ap-south-1
February 26, 2025, 17:06:40 (UTC+05:30)


Manage AWS Resources - AWS
Create S3 bucket | S3 | ap-south
ap-south-1.console.aws.amazon.com/s3/bucket/create?region=ap-south-1&bucketType=general
Apps
Online C Compiler -...
Gmail
YouTube
Maps
Search
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sam @ 1297-8360-7175
Amazon S3 > Buckets > Create bucket
Default encryption Info
Server-side encryption is automatically applied to new objects stored in this bucket.
Encryption type Info
Server-side encryption with Amazon S3 managed keys (SSE-S3)
Server-side encryption with AWS Key Management Service keys (SSE-KMS)
Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)
Secure your objects with two separate layers of encryption. For details on pricing, see DSSE-KMS pricing on the Storage tab of the Amazon S3 pricing page.
Bucket Key
Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. Learn more
Disable
Enable
Advanced settings
After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.
Cancel
Create bucket
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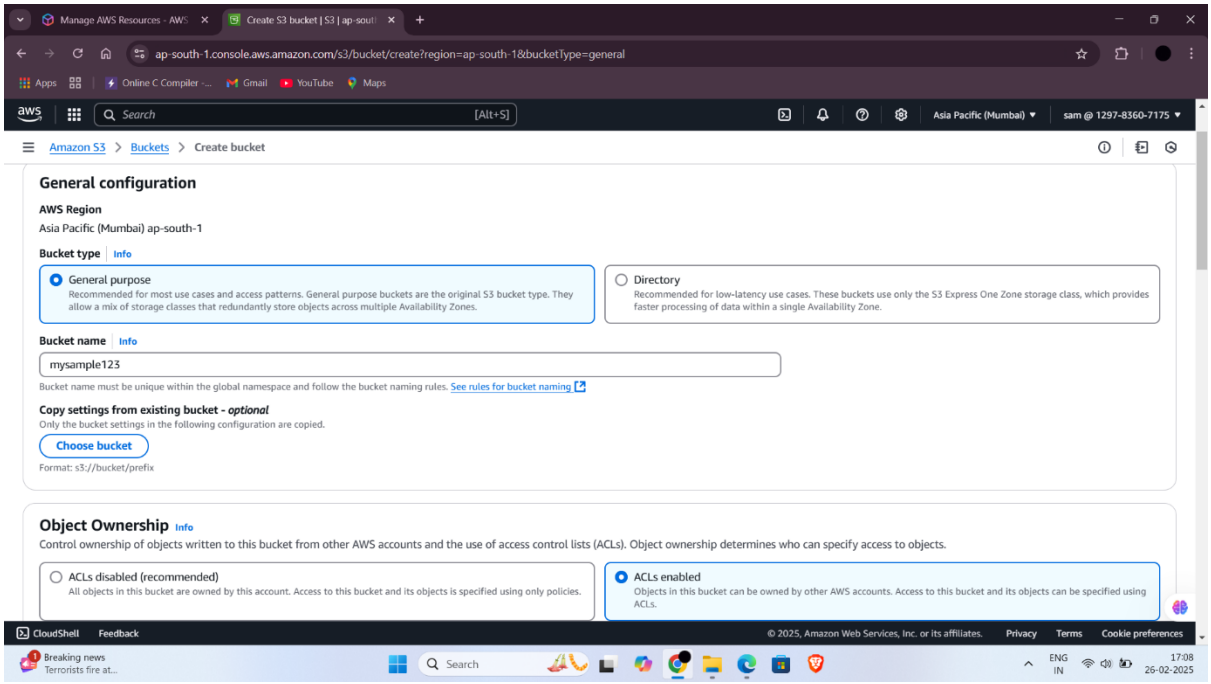
Manage AWS Resources - AWS
Create S3 bucket | S3 | ap-south-1
ap-south-1.console.aws.amazon.com/s3/bucket/create?region=ap-south-1&bucketType=general
Apps
Online C Compiler -...
Gmail
YouTube
Maps
Search
[Alt+S]
Asia Pacific (Mumbai)
sam @ 1297-8360-7175
Amazon S3 > Buckets > Create bucket
General configuration
AWS Region
Asia Pacific (Mumbai) ap-south-1
Bucket type Info
General purpose
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.
Directory
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.
Bucket name Info
mysample123
Bucket name must be unique within the global namespace and follow the bucket naming rules. See rules for bucket naming
Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
Choose bucket
Format: s3://bucket/prefix
Object Ownership Info
Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.
ACLs disabled (recommended)
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.
ACLs enabled
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.
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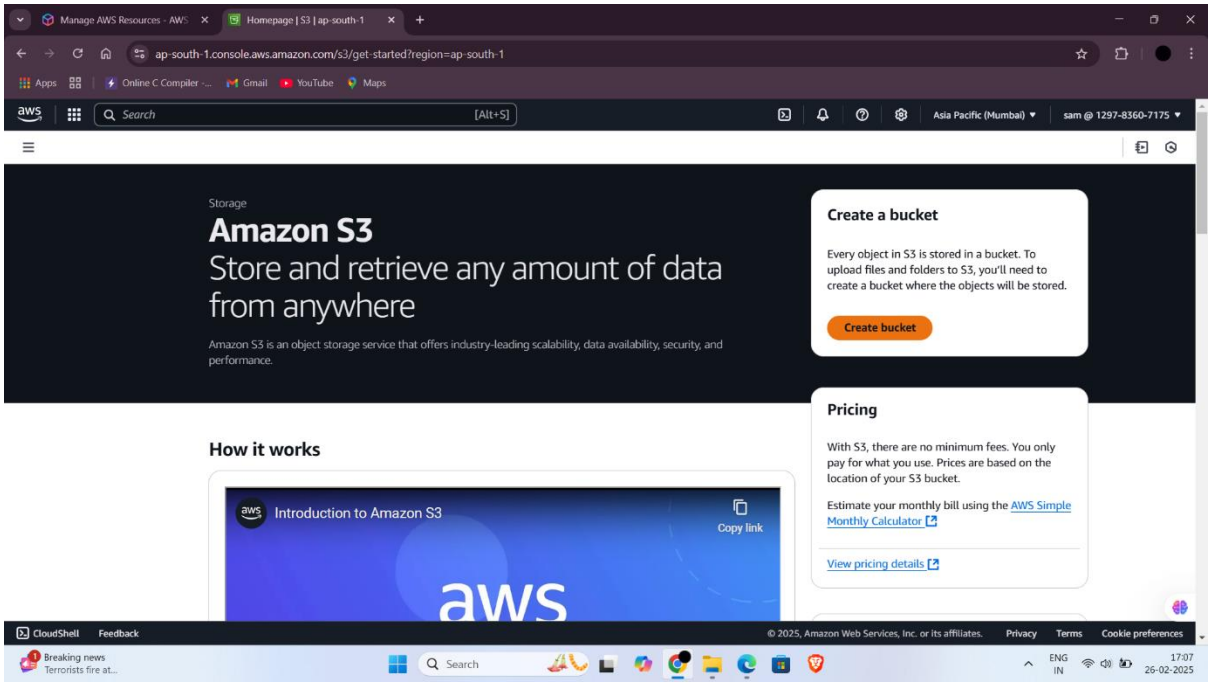
Manage AWS Resources - AWS
Homepage | S3 | ap-south-1
ap-south-1.console.aws.amazon.com/s3/get-started?region=ap-south-1
Apps
Online C Compiler -...
Gmail
YouTube
Maps
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Storage
Amazon S3
Store and retrieve any amount of data from anywhere
Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.
Create a bucket
Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.
Create bucket
Pricing
With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.
Estimate your monthly bill using the AWS Simple Monthly Calculator
View pricing details
How it works
Introduction to Amazon S3
Copy link
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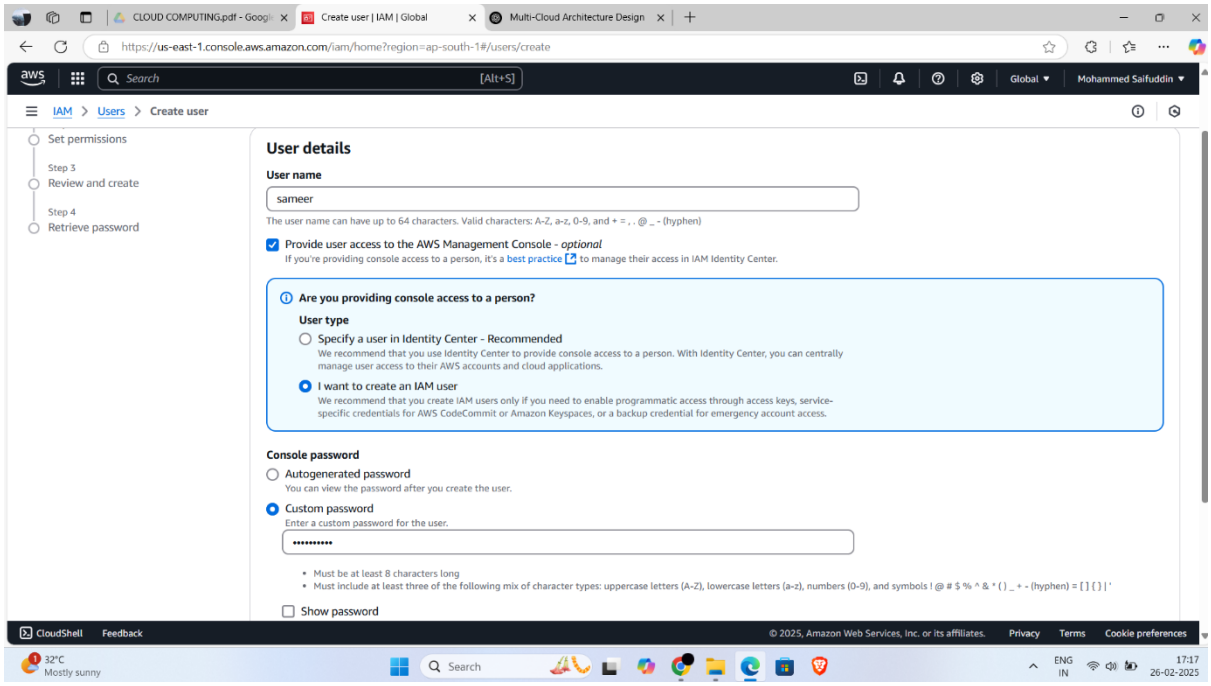
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https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/create
Search
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Global
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IAM > Users > Create user
Set permissions
Step 3
Review and create
Step 4
Retrieve password
User details
User name
sameer
The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ _ - (hyphen)
Provide user access to the AWS Management Console - optional
If you're providing console access to a person, it's a best practice to manage their access in IAM Identity Center.
Are you providing console access to a person?
User type
Specify a user in Identity Center - Recommended
We recommend that you use Identity Center to provide console access to a person. With Identity Center, you can centrally manage user access to their AWS accounts and cloud applications.
I want to create an IAM user
We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.
Console password
Autogenerated password
You can view the password after you create the user.
Custom password
Enter a custom password for the user.
Must be at least 8 characters long
Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols ! @ # $ % ^ & * ( ) _ + - (hyphen) = [ ] { } | '
Show password
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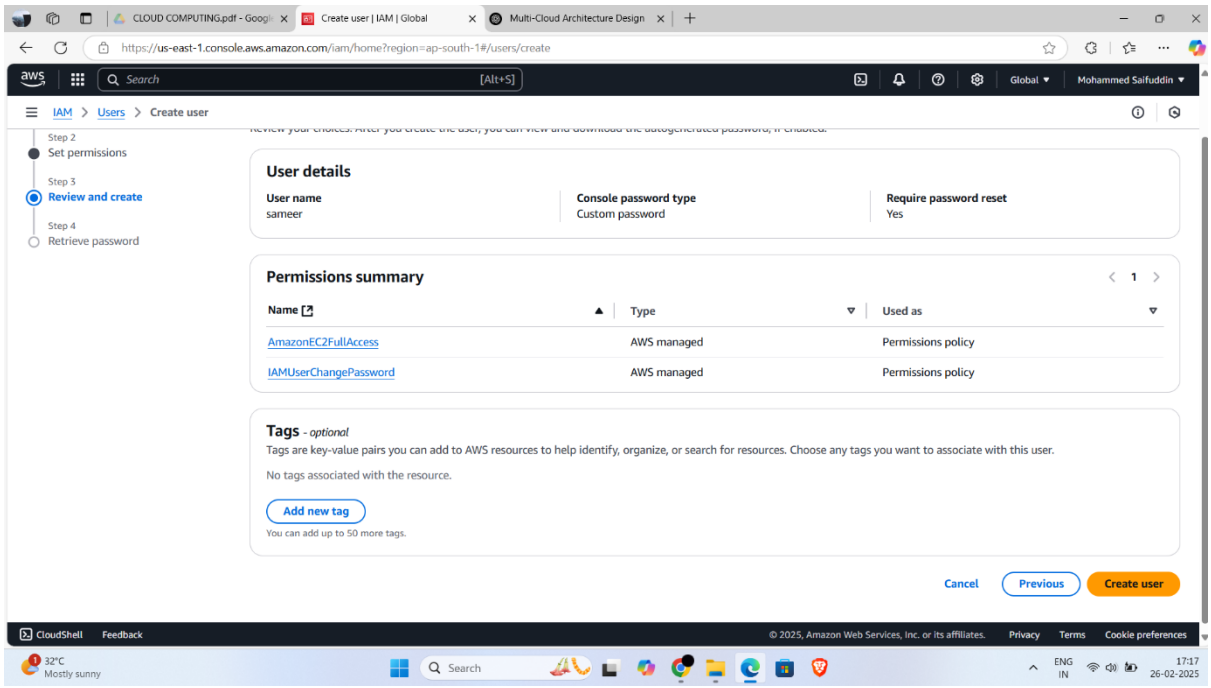
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IAM > Users > Create user
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Step 4
Retrieve password
User details
User name
sameer
Console password type
Custom password
Require password reset
Yes
Permissions summary
Name
Type
Used as
AmazonEC2FullAccess
AWS managed
Permissions policy
IAMUserChangePassword
AWS managed
Permissions policy
Tags - optional
Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.
No tags associated with the resource.
Add new tag
You can add up to 50 more tags.
Cancel
Previous
Create user
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17:17
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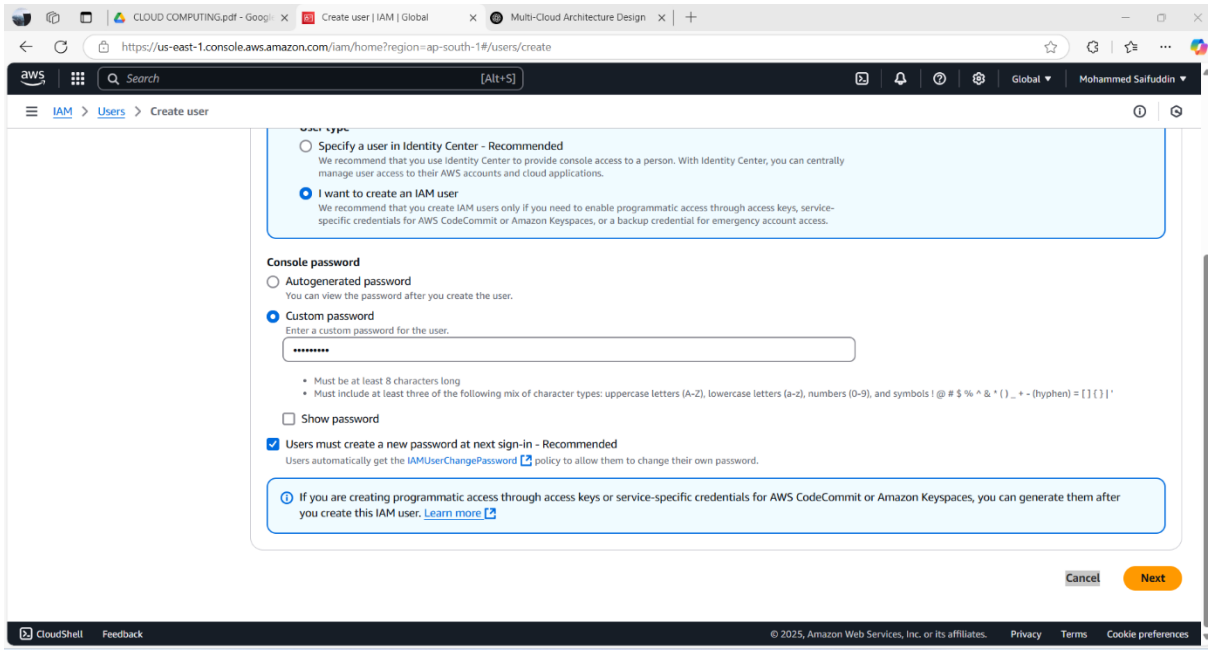
CLOUD COMPUTING.pdf - Google
Create user | IAM | Global
Multi-Cloud Architecture Design
https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/create
Search
[Alt+S]
Global
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IAM > Users > Create user
Specify a user in Identity Center - Recommended
We recommend that you use Identity Center to provide console access to a person. With Identity Center, you can centrally manage user access to their AWS accounts and cloud applications.
I want to create an IAM user
We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.
Console password
Autogenerated password
You can view the password after you create the user.
Custom password
Enter a custom password for the user.
Must be at least 8 characters long
Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols ! @ # $ % ^ & * ( ) _ + - (hyphen) = [ ] { } | '
Show password
Users must create a new password at next sign-in - Recommended
Users automatically get the IAMUserChangePassword policy to allow them to change their own password.
If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. Learn more
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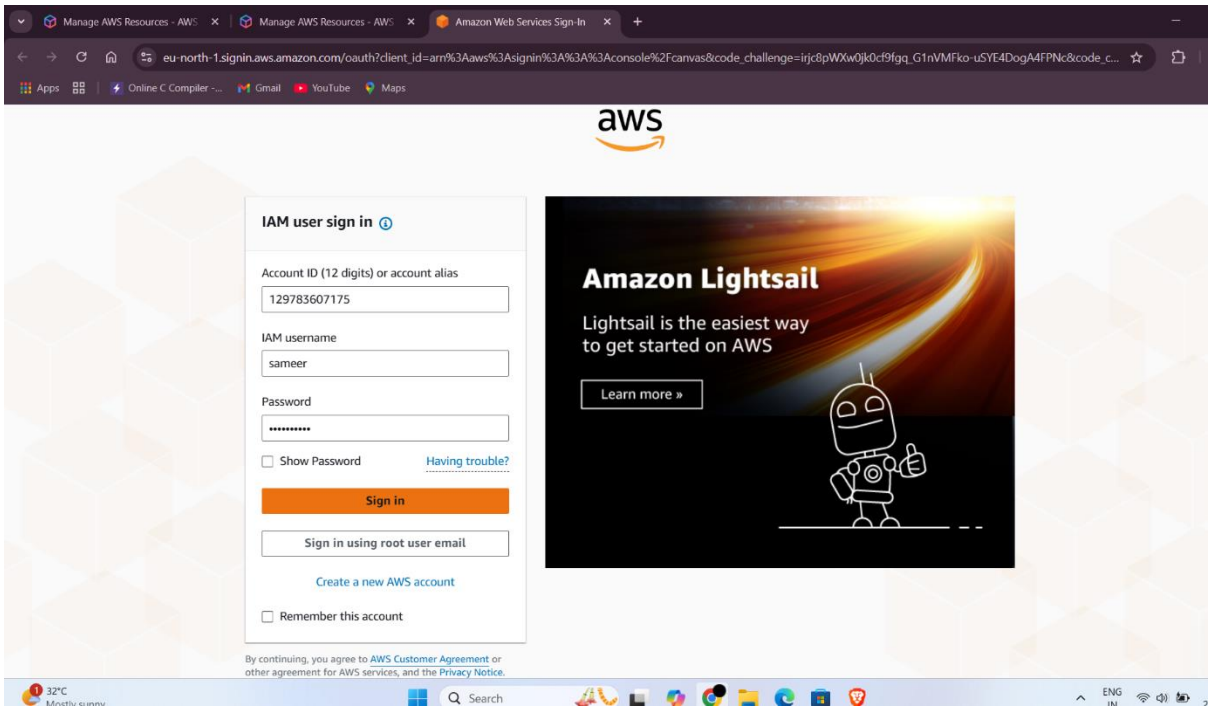
Manage AWS Resources - AWS
Manage AWS Resources - AWS
Amazon Web Services Sign-In
eu-north-1.signin.aws.amazon.com/oauth?client_id=arn%3Aaws%3Asignin%3A%3A%3Aconsole%2Fcanvas&code_challenge=irjc8pWXw0jk0cf9fgq_G1nVMFko-uSYE4DogA4FPNc&code_c...
Apps
Online C Compiler -...
Gmail
YouTube
Maps
aws
IAM user sign in
Account ID (12 digits) or account alias
129783607175
IAM username
sameer
Password
Show Password
Having trouble?
Sign in
Sign in using root user email
Create a new AWS account
Remember this account
By continuing, you agree to AWS Customer Agreement or other agreement for AWS services, and the Privacy Notice.
Amazon Lightsail
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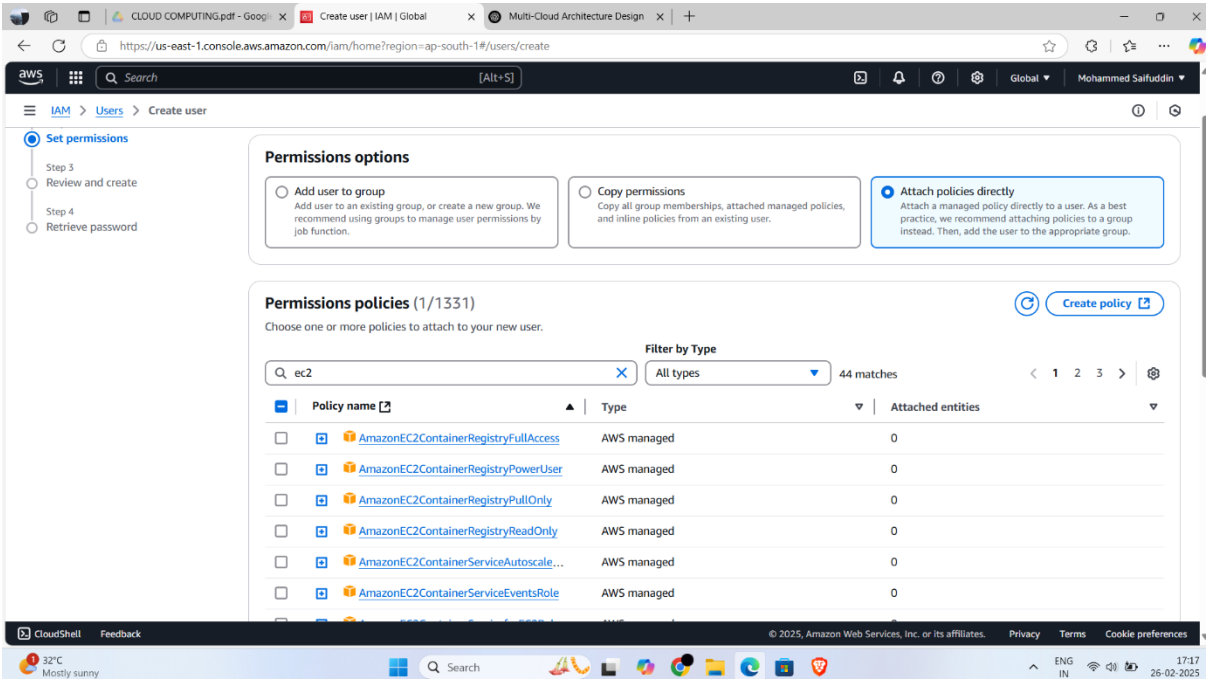
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Create user | IAM | Global
Multi-Cloud Architecture Design
https://us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/users/create
aws
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Global
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IAM > Users > Create user
Set permissions
Step 3
Review and create
Step 4
Retrieve password
Permissions options
Add user to group
Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.
Copy permissions
Copy all group memberships, attached managed policies, and inline policies from an existing user.
Attach policies directly
Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.
Permissions policies (1/1331)
Choose one or more policies to attach to your new user.
Create policy
Filter by Type
ec2
All types
44 matches
1 2 3
Policy name
Type
Attached entities
AmazonEC2ContainerRegistryFullAccess AWS managed 0
AmazonEC2ContainerRegistryPowerUser AWS managed 0
AmazonEC2ContainerRegistryPullOnly AWS managed 0
AmazonEC2ContainerRegistryReadOnly AWS managed 0
AmazonEC2ContainerServiceAutoscale... AWS managed 0
AmazonEC2ContainerServiceEventsRole AWS managed 0
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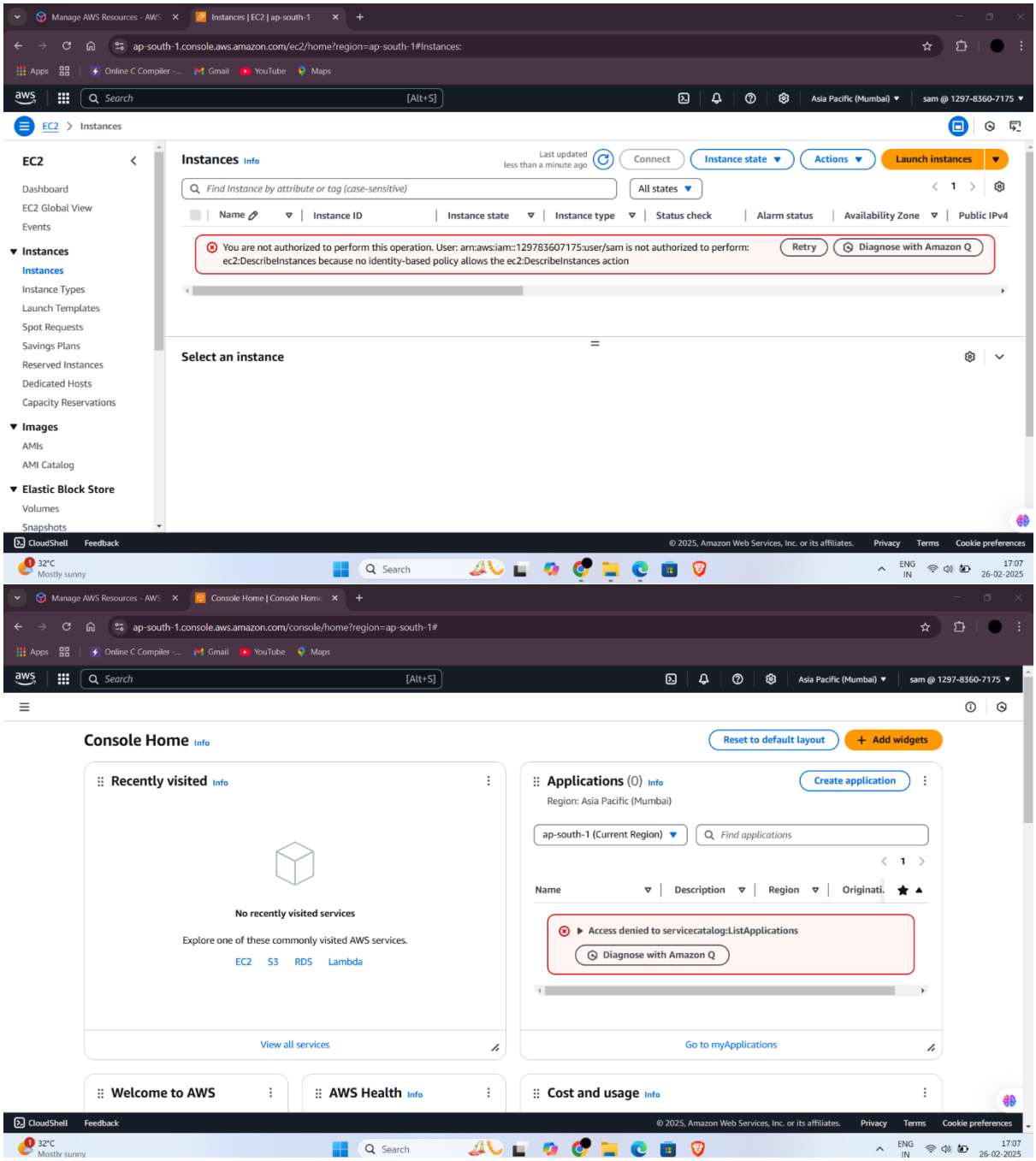
Manage AWS Resources - AWS
Instances | EC2 | ap-south-1
ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:
Apps
Online C Compiler -...
Gmail
YouTube
Maps
Search
[Alt+S]
Asia Pacific (Mumbai)
sam @ 1297-8360-7175
EC2
Instances
EC2
Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Instances 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 IPv4
You are not authorized to perform this operation. User: arn:aws:iam::129783607175:user/sam is not authorized to perform: ec2:DescribeInstances because no identity-based policy allows the ec2:DescribeInstances action
Retry
Diagnose with Amazon Q
Select an instance
CloudShell
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17:07
26-02-2025
Manage AWS Resources - AWS
Console Home | Console Home
ap-south-1.console.aws.amazon.com/console/home?region=ap-south-1#
Console Home Info
Reset to default layout
Add widgets
Recently visited Info
No recently visited services
Explore one of these commonly visited AWS services.
EC2
S3
RDS
Lambda
View all services
Applications (0) Info
Region: Asia Pacific (Mumbai)
Create application
ap-south-1 (Current Region)
Find applications
Name
Description
Region
Originati.
Access denied to servicecatalog:ListApplications
Diagnose with Amazon Q
Go to myApplications
Welcome to AWS
AWS Health Info
Cost and usage Info