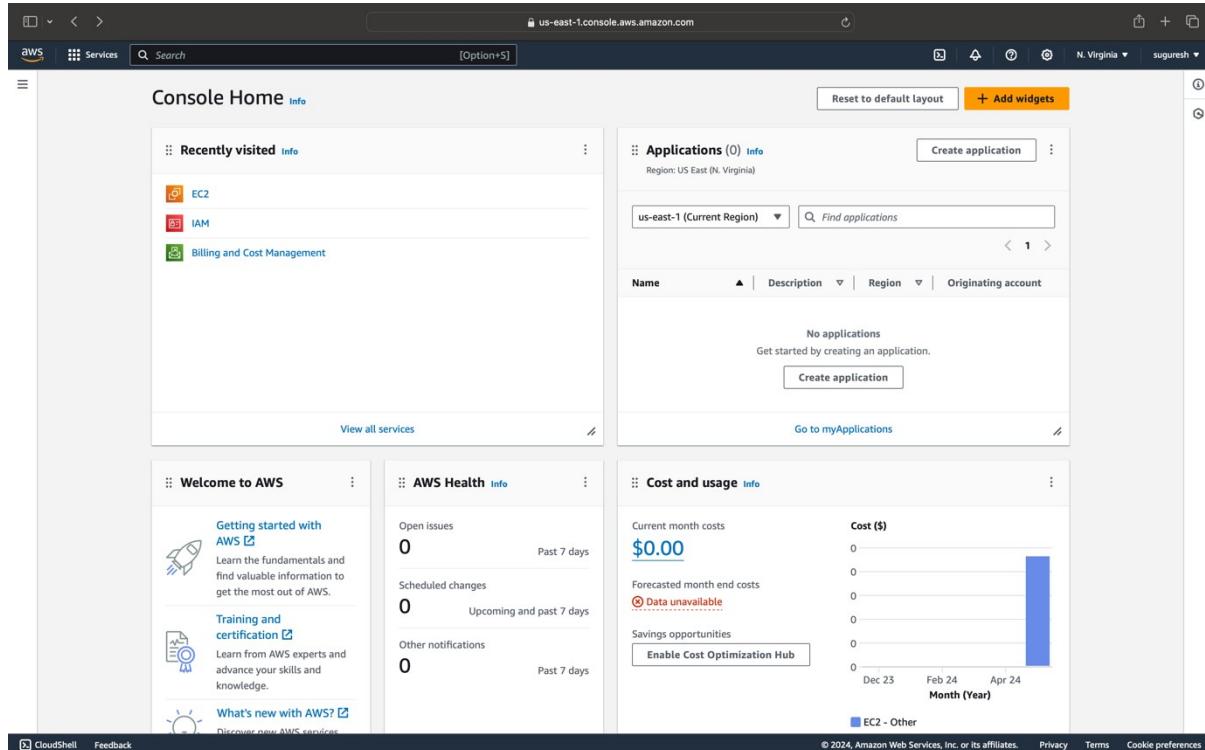
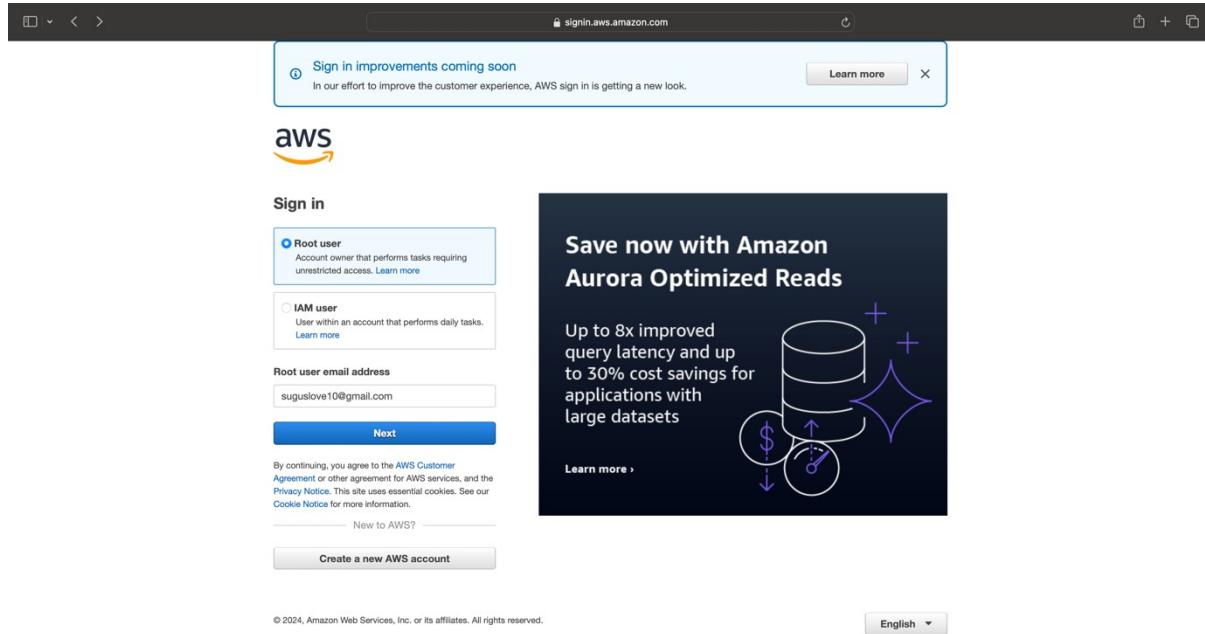


# 1. L1 - Demonstrate the AWS EC2 Ubuntu Instance Creation steps and connect to EC2 Instance using Mobaxterm/putty agent

(As I am using MacBook so I'll be using terminal, as we know macOS is based on Linux)



The screenshot shows two side-by-side AWS EC2 instance creation wizards.

**Left Wizard (Launch an instance):**

- Name and tags:** A text input field contains "Myserver".
- Application and OS Images (Amazon Machine Image):**
  - Recent AMIs:** Amazon Linux, macOS, Ubuntu (selected), Windows, Red Hat, SUSE.
  - Search bar:** "Search our full catalog including 1000s of application and OS images".
  - Free tier information:** "Free tier eligible" for Ubuntu Server 24.04 LTS (HVM, SSD Volume Type).
- Description:** A note about additional costs for pre-installed software.

**Right Wizard (Summary):**

- Summary:**
  - Number of instances:** 1
  - Software Image (AMI):** Canonical, Ubuntu, 24.04 LTS, ami-04b70fa74e45c3917
  - Virtual server type (instance type):** t2.micro
  - Firewall (security group):** New security group
  - Storage (volumes):** 1 volume(s) - 8 GiB
- Free tier callout:** Details about free tier usage for t2.micro instances.
- Buttons:** Cancel, Launch instance, Review commands.

**Bottom Navigation:** cloudShell, Feedback, © 2024, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, Cookie preferences.

Screenshot of the AWS EC2 Instances page showing a single instance named "Myserver".

**Instances (1) Info**

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Publ...
Myserver	i-036255de117aba1ad	Running	t2.micro	Initializing	View alarms +	us-east-1b	ec2-54-144-221-98.co...	54.1...

**Select an instance**

**CloudShell Feedback**

```
suguresh@suguresh-MBP:~$ ssh -i "sugu-key.pem" ubuntu@ec2-54-144-221-98.compute-1.amazonaws.com
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1008-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of Thu May 29 08:22:52 UTC 2024

System load: 0.11      Processes: 186
Usage of /: 23.1% of 6.71GB  Users logged in: 0
Memory usage: 80%        IPv4 address for enx0: 172.31.27.111
Swap usage: 0%          Swap usage: 0%
```

Expanded Security Maintenance for Applications is not enabled.  
0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.  
See <https://ubuntu.com/esm> or run: sudo pro status

The list of available updates is more than a week old.  
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/\*copyright\*.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo\_root" for details.

ubuntu@ip-172-31-27-111:~\$

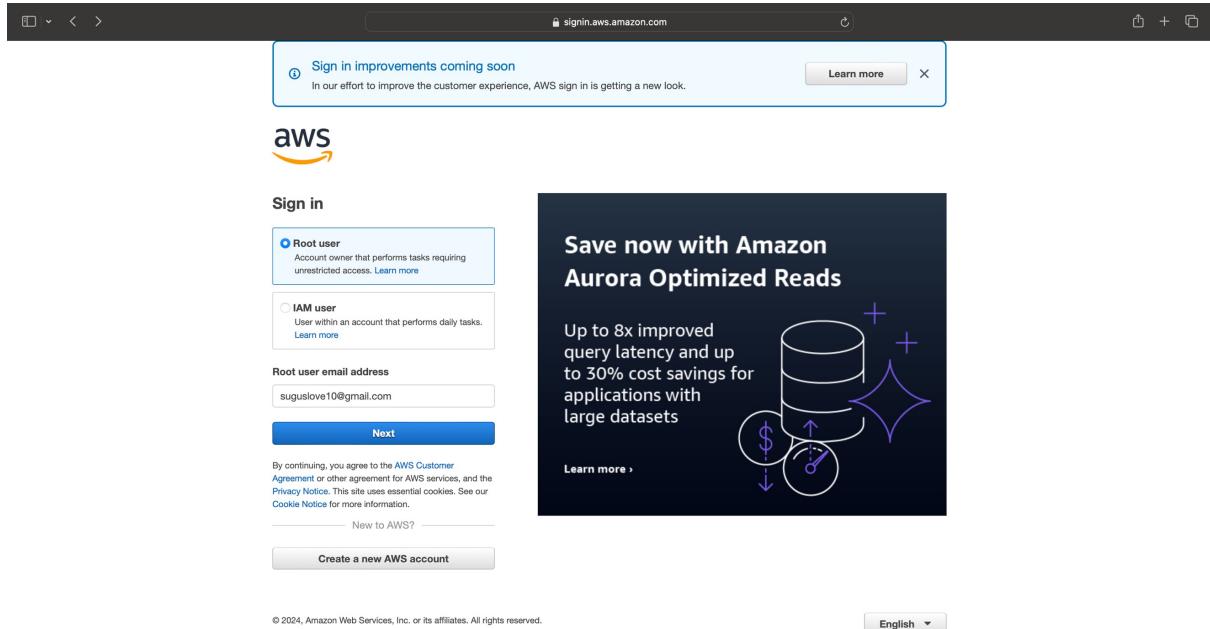
**EC2 > Instances > i-036255de117aba1ad (Myserver)**

**Instance summary for i-036255de117aba1ad (Myserver)**

Instance ID	i-036255de117aba1ad (Myserver)	Public IPv4 address	54.144.221.98   open address
Private IPv4 addresses	172.31.27.111	IPv6 address	-
Instance state	Running	Public IPv4 DNS	ec2-54-144-221-98.compute-1.amazonaws.com   open address
Hostname type	IP name: ip-172-31-27-111.ec2.internal	Private IP DNS name (IPv4 only)	ip-172-31-27-111.ec2.internal
Instance type	t2.micro	Answer private resource DNS name	IPv4 (A)
Auto-assigned IP address	54.144.221.98 [Public IP]	Elastic IP addresses	-
AWS Compute Optimizer finding	Opt-in to AWS Compute Optimizer for recommendations.	VPC ID	vpc-06d1550e318df5f103
Subnet ID	subnet-07d2add54f6067dd7	IAM Role	-
IMDSv2	Required	Auto Scaling Group name	-

**CloudShell Feedback**

## 2. L2 - Login to AWS Console and Create IAM User, Role, and Group



The screenshot shows the AWS Console Home page at [us-east-1.console.aws.amazon.com](https://us-east-1.console.aws.amazon.com). The top navigation bar includes "Services" and a search bar. The main area features a "Recently visited" sidebar with links to EC2, IAM, and Billing and Cost Management. To the right, the "Applications" section is displayed, showing a table with one row: "No applications". It includes a "Create application" button and a "Find applications" search bar. Other sections like "Welcome to AWS", "AWS Health", and "Cost and usage" are also present.

**IAM Dashboard**

**Security recommendations**

- Add MFA for root user
- Root user has no active access keys

**IAM resources**

User groups	Users	Roles	Policies	Identity providers
0	0	2	0	0

**What's new**

- IAM Access Analyzer now simplifies inspecting unused access to guide you toward least privilege.
- IAM Access Analyzer introduces custom policy checks powered by automated reasoning.
- Announcing AWS IAM Identity Center APIs for visibility into workforce access to AWS.
- New organization-wide IAM condition keys to restrict AWS service-to-service requests.

**AWS Account**

Account ID: 211125328135  
Account Alias: Create  
Sign-in URL for IAM users in this account: https://211125328135.sigin.aws.amazon.com/console

**Quick Links**

**Tools**

**Additional information**

This screenshot shows the AWS IAM Dashboard. On the left, there's a navigation sidebar with options like Dashboard, Access management, Access reports, and Related consoles. The main area has sections for Security recommendations, IAM resources (with a table showing 0 User groups, 0 Users, 2 Roles, 0 Policies, and 0 Identity providers), and What's new (listing recent changes in the IAM Access Analyzer). To the right, there are panels for the AWS Account (showing the account ID and sign-in URL), Quick Links (linking to My security credentials), Tools (linking to Policy simulator), and Additional information.

**Users (1) Info**

User created successfully. You can view and download the user's password and email instructions for signing in to the AWS Management Console.

**Create user**

User name	Path	Group	Last activity	MFA	Password age	Console last sign-in	Access key ID
abhi	/	0	Now	-	-	-	-

This screenshot shows the AWS IAM Users page. It displays a success message: "User created successfully. You can view and download the user's password and email instructions for signing in to the AWS Management Console." Below this, there's a "Create user" button. The main table lists one user, "abhi", with details such as Path (/), Group (0), Last activity (Now), and MFA (disabled). The table also includes columns for Password age, Console last sign-in, and Access key ID.

Screenshot of the AWS IAM 'Create role' wizard, Step 2: Add permissions.

The search bar shows 's3'. The results table lists various AWS managed policies:

Policy name	Type	Description
AmazonDMSRedshiftS3Role	AWS managed	Provides access to manage S3 settings...
<b>AmazonS3FullAccess</b>	AWS managed	Provides full access to all buckets via t...
AmazonS3ObjectLambdaExecutionRolePolicy	AWS managed	Provides AWS Lambda functions permis...
AmazonS3OutpostsFullAccess	AWS managed	Provides full access to Amazon S3 on ...
AmazonS3OutpostsReadOnlyAccess	AWS managed	Provides read only access to Amazon S...
AmazonS3ReadOnlyAccess	AWS managed	Provides read only access to all bucket...
AWSBackupServiceRolePolicyForS3Backup	AWS managed	Policy containing permissions necessar...
AWSBackupServiceRolePolicyForS3Restore	AWS managed	Policy containing permissions necessar...
QuickSightAccessForS3StorageManagementAnalyti...	AWS managed	Policy used by QuickSight team to acc...

**Set permissions boundary - optional**

Buttons: Cancel, Previous, Next

Screenshot of the AWS IAM 'Create role' wizard, Step 2: Add permissions.

The search bar shows 'ec2'. The results table lists various AWS managed policies:

Policy name	Type	Description
AmazonEC2ContainerRegistryFullAccess	AWS managed	Provides administrative access to Ama...
AmazonEC2ContainerRegistryPowerUser	AWS managed	Provides full access to Amazon EC2 Co...
AmazonEC2ContainerRegistryReadOnly	AWS managed	Provides read-only access to Amazon E...
AmazonEC2ContainerServiceAutoscaleRole	AWS managed	Policy to enable Task AutoScaling for A...
AmazonEC2ContainerServiceEventsRole	AWS managed	Policy to enable CloudWatch Events fo...
AmazonEC2ContainerServiceforEC2Role	AWS managed	Default policy for the Amazon EC2 Rol...
AmazonEC2ContainerServiceRole	AWS managed	Default policy for Amazon ECS service ...
<b>AmazonEC2FullAccess</b>	AWS managed	Provides full access to Amazon EC2 via...
AmazonEC2ReadOnlyAccess	AWS managed	Provides read only access to Amazon E...
AmazonEC2RoleforAWSCodeDeploy	AWS managed	Provides EC2 access to S3 bucket to do...
AmazonEC2RoleforAWSCodeDeployLimited	AWS managed	Provides EC2 limited access to S3 buck...
AmazonEC2RoleforDataPipelineRole	AWS managed	Default policy for the Amazon EC2 Rol...
AmazonEC2RoleforSSM	AWS managed	This policy will soon be deprecated. Pl...
AmazonEC2RolePolicyForLaunchWizard	AWS managed	Managed policy for the Amazon Launc...
AmazonEC2TempCloudWatchLogsRole	AWS managed	Deliverable Authorization for Access

Buttons: CloudShell, Feedback, Cancel, Previous, Next

**Role Dev created.**

**IAM > Roles**

**Roles (3) Info**

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Role name	Trusted entities	Last activity
AWSServiceRoleForSupport	AWS Service: support (Service-Linked)	-
AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service)	-
Dev	Account: 211125328135	-

**Roles Anywhere Info**

Authenticate your non AWS workloads and securely provide access to AWS services.

**Access AWS from your non AWS workloads**

Operate your non AWS workloads using the same authentication and authorization strategy that you use within AWS.

**X.509 Standard**

Use your own existing PKI infrastructure or use AWS Certificate Manager Private Certificate Authority to authenticate identities.

**Temporary credentials**

Use temporary credentials with ease and benefit from the enhanced security they provide.

**Related consoles**

IAM Identity Center

AWS Organizations

**cloudShell Feedback**

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**Create user group | IAM | Global**

**IAM > User groups > Create user group**

**Create user group**

**Name the group**

User group name  
Enter a meaningful name to identify this group.  
  
Maximum 128 characters. Use alphanumeric and '+', '=', '@', '-' characters.

**Add users to the group - Optional (1) 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.

User name	Groups	Last activity	Creation time
abhi	0	None	16 minutes ago

**Attach permissions policies - Optional (926) 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: All types

Policy name	Type	Used as	Description
<input checked="" type="checkbox"/> AdministratorAccess	AWS managed - job function	None	Provides full access to AWS services an...
<input checked="" type="checkbox"/> AdministratorAccess-Amplify	AWS managed	None	Grants account administrative permis...
<input checked="" type="checkbox"/> AdministratorAccess-AWSElast...	AWS managed	None	Grants account administrative permis...

**CloudShell Feedback**

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Screenshot of the AWS IAM User Groups page showing a newly created user group named "Developers".

The browser address bar shows: `us-east-1.console.aws.amazon.com`

The AWS IAM sidebar navigation includes:

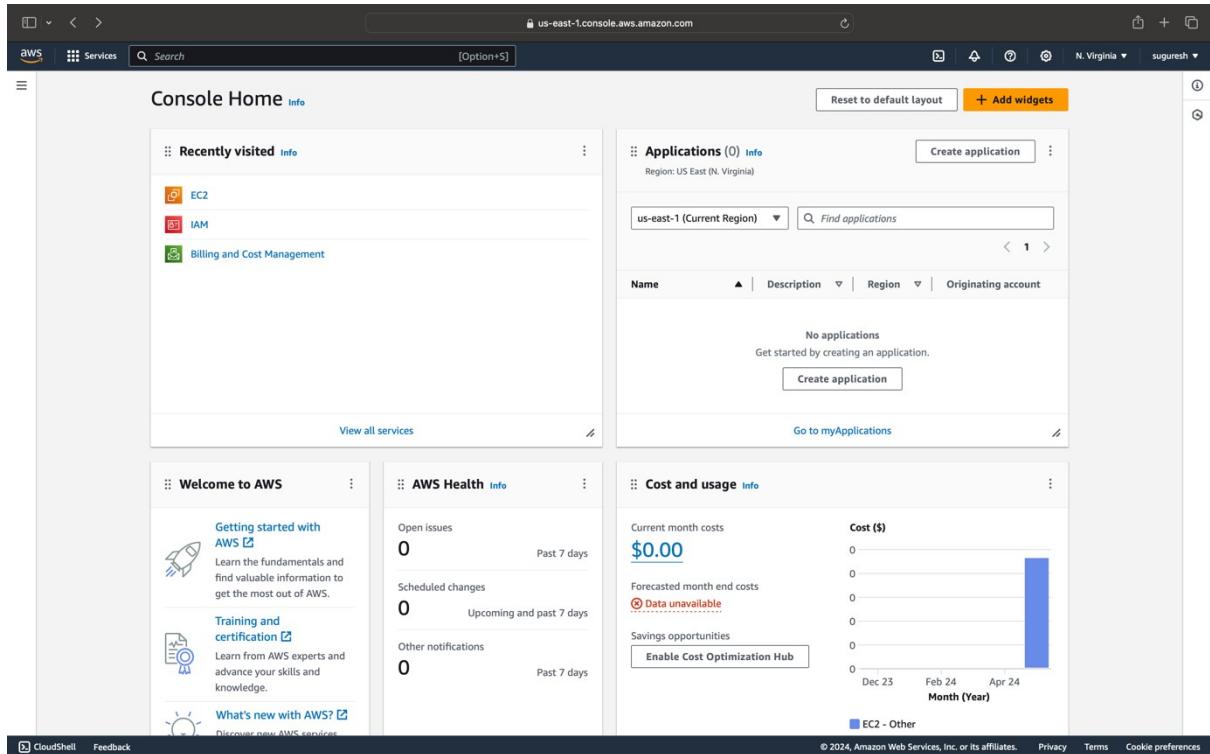
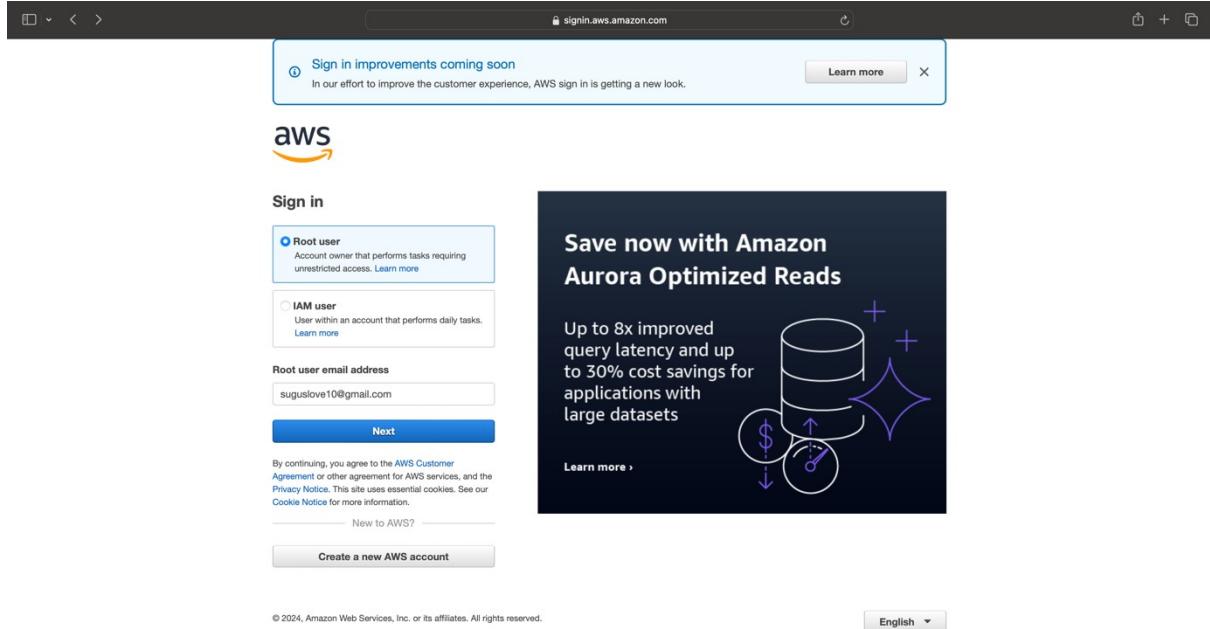
- Identity and Access Management (IAM)
- Dashboard
- Access management
  - User groups (selected)
  - Users
  - Roles
  - Policies
  - Identity providers
  - Account settings
- Access reports
  - Access Analyzer
  - External access
  - Unused access
  - Analyzer settings
  - Credential report
  - Organization activity
  - Service control policies
- Related consoles
  - IAM Identity Center
  - AWS Organizations

The main content area displays the "User groups" list with one item:

Group name	Users	Permissions	Creation time
Developers	1	Defined	Now

Buttons at the top right of the list table include: `View group`, `Delete`, and `Create group`.

### 3. L3 - Launch AWS EC2 Ubuntu Instance and configure the Security Group - Inbound Rule: 8080. Justify the usage of Inbound Rules



**Launch an instance | EC2 | us-east-1**

**Name and tags** [Info](#)

Name  
e.g. My Web Server [Add additional tags](#)

**Application and OS Images (Amazon Machine Image)** [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

[Search our full catalog including 1000s of application and OS images](#)

**Quick Start**

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux [Browse more AMIs](#) Including AMIs from AWS, Marketplace and the Community

**Amazon Machine Image (AMI)**

Amazon Linux 2023 AMI  
ami-0bb84b8f0fb7024d8 (64-bit (x86), uefi-preferred) / ami-04b595c05193adbb (64-bit (Arm), uefi)  
Virtualization: hvm ENA enabled: true Root device type: ebs

**Free tier eligible**

**Summary**

Number of instances [Info](#)  
1

Software Image (AMI)  
Amazon Linux 2023 AMI 2023.4.2... [read more](#)  
ami-0bb84b8f0fb7024d8

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

**Free tier:** In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million IOs, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#) [Launch instance](#) [Review commands](#)

**Instances (1) [Info](#)**

[Find Instance by attribute or tag \(case-sensitive\)](#) [Running](#)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Publ...
Server1	i-00241c06597b99f70	Running <a href="#">View details</a> <a href="#">Edit</a>	t2.micro	Initializing <a href="#">View details</a> <a href="#">Edit</a>	<a href="#">View alarms</a> <a href="#">+</a>	us-east-1b	ec2-18-215-148-220.co...	18.2

**Select an instance**

Screenshot of the AWS EC2 Instance Details page (us-east-1.console.aws.amazon.com) showing instance configuration and security group details.

**Instance Configuration:**

- Answer private resource DNS name: IPv4 (A)
- Auto-assigned IP address: 18.215.148.220 [Public IP]
- Instance type: t2.micro
- VPC ID: vpc-06d1550e318df5103
- Elastic IP addresses: -
- AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. [Learn more]
- Subnet ID: subnet-07d2add54f6067dd7
- Auto Scaling Group name: -

**Security Tab:**

- IAM Role: -
- Owner ID: 211125328135
- Launch time: Thu May 23 2024 15:51:15 GMT+0530 (India Standard Time)
- Security groups: sg-0649f60e935c09f6e (default)

**Inbound Rules:**

Name	Security group rule ID	Port range	Protocol	Source	Security groups
-	sgr-0d8362e7f979d943e	All	All	sg-0649f60e935c09f6e	default

**Outbound Rules:**

Name	Security group rule ID	Port range	Protocol	Destination	Security groups
-	sgr-07759902ddb31517f	All	All	0.0.0.0	default

Screenshot of the AWS Security Groups page (us-east-1.console.aws.amazon.com) showing the "Edit inbound rules" section for the security group sg-0649f60e935c09f6e.

**Edit inbound rules:**

Inbound rules control the incoming traffic that's allowed to reach the instance.

**Inbound rules table:**

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-0d8362e7f979d943e	All traffic	All	All	Custom	sg-0649f60e935c09f6e

**Buttons:**

- Add rule
- Cancel
- Preview changes
- Save rules

**Modifying Inbound Rules:**

The "Modify inbound security group rules" button is visible at the bottom of the page.

The screenshot shows the AWS Management Console interface for managing security group inbound rules. The URL in the address bar is `us-east-1.console.aws.amazon.com`. The page title is "Edit inbound rules". The breadcrumb navigation shows "EC2 > Security Groups > sg-0649f60e935c09f6e - default > Edit inbound rules". A sub-header "Inbound rules" with a "Info" link is present. The main content area displays three existing inbound rules:

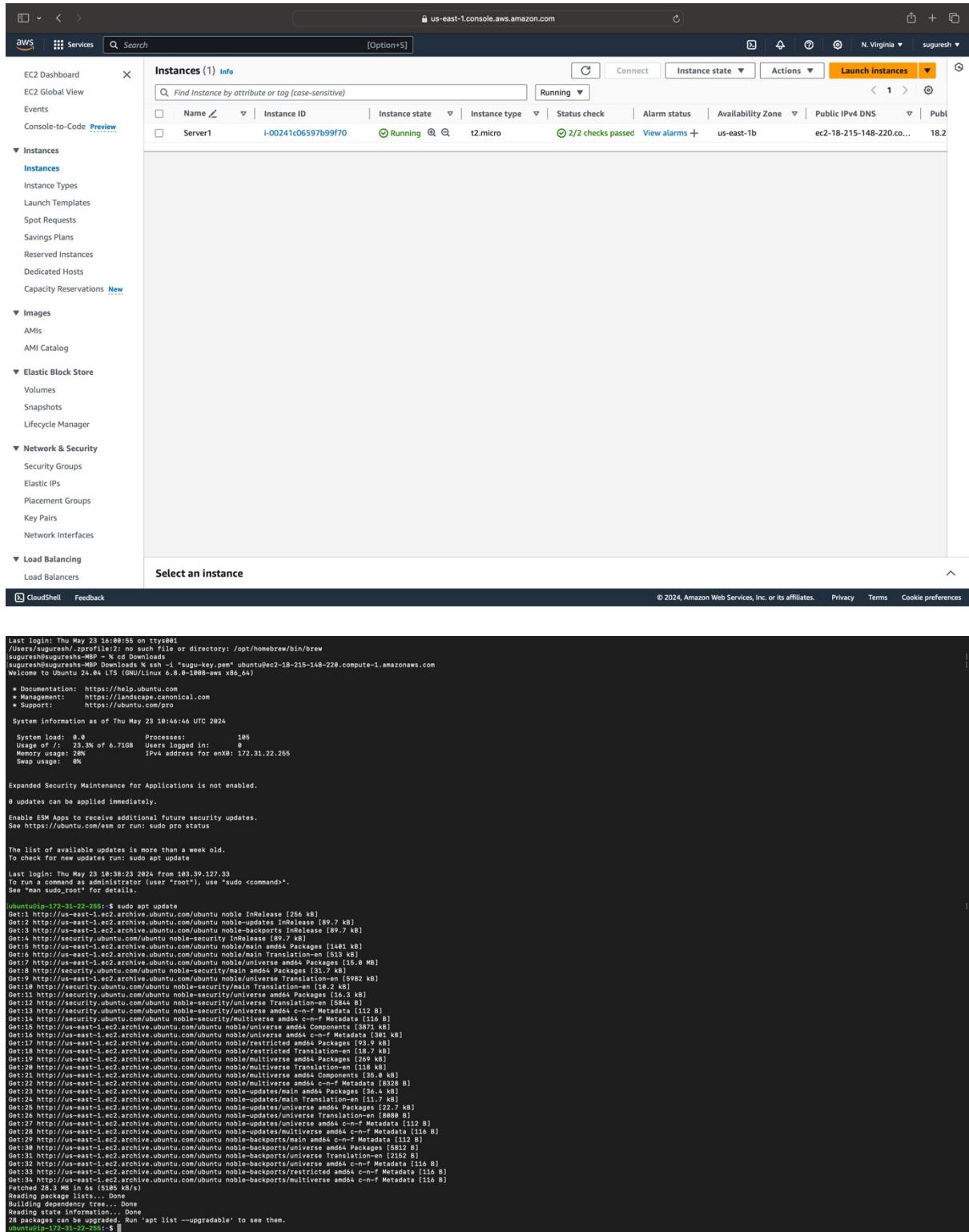
Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-01d34849b2a476d29	SSH	TCP	22	Custom	Q 103.39.127.33/32 X
sgr-09936aac2e7be606	Custom TCP	TCP	8080	Custom	Q 0.0.0.0/0 X
sgr-0d8362e7f979d943e	All traffic	All	All	Custom	Q sg-0649f60e935c09f6e X

Below the table is a button labeled "Add rule". A warning message at the bottom left states: "⚠ 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." At the bottom right are "Cancel", "Preview changes", and "Save rules" buttons.

## Justify the usage of Inbound Rules:

You can manage incoming traffic to your instance by using inbound rules. You can enable HTTP traffic, which is frequently used for web applications, from your personal IP address to your instance by defining an inbound rule for port 8080. By restricting access to just reliable sources, this improves security by lowering the possibility of unwanted access.

## 4. L4 - Connect to the AWS EC2 Ubuntu Instance and Update default packages, install JDK, Maven, Git, and validate the versions



```

Last login: Thu May 23 16:00:55 on ttys001
/usr/sugresh$ zprofile2: no such file or directory: /opt/homebrew/bin/brew
sugresh@ip-10-0-1-1:~$ cd Downloads
sugresh@ip-10-0-1-1:~/Downloads$ curl -s https://raw.githubusercontent.com/awslabs/amazon-mpc-deployment/main/keys/sugu-key.pem > ./sugu-key.pem
ubuntu@ip-10-0-1-1:~$ ssh -i ./sugu-key.pem ec2-18-215-148-220.compute-1.amazonaws.com
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.6.0-1080-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of Thu May 23 18:46:46 UTC 2024

System load: 0.0 Processes: 105
Usage of /: 1.3% of 6.71GB Users logged in: 0
Memory usage: 28% IPv4 address for enx0: 172.31.22.255
Swap usage: 0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Thu May 23 16:38:23 2024 from 103.39.127.33
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-10-0-1-1:~$ sudo apt update
[sudo] password for ubuntu:
Get:1 http://security.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease [89.7 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease [89.7 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [87.9 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-security/main amd64 Packages [1441 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/main Translation-en [513 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [7.48 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-security/universe amd64 Packages [5982 kB]
Get:10 http://security.ubuntu.com/ubuntu noble-security/main Translation-en [102.2 kB]
Get:11 http://security.ubuntu.com/ubuntu noble-security/universe amd64 Packages [16.3 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-security/universe Translation-en [1 kB]
Get:13 http://security.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [112 B]
Get:14 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [116 B]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-security/main amd64 Components [108 B]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [985 kB]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/restricted amd64 Packages [93.9 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/restricted Translation-en [53.7 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [102.7 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe Translation-en [118 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [35.0 kB]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [620 B]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/multiverse/main amd64 Packages [16.4 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/main Translation-en [11.7 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [22.7 kB]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [10.9 kB]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/universe amd64 c-n-f Metadata [112 B]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [116 B]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [17.9 kB]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Packages [5612 B]
Get:31 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [2152 B]
Get:32 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [116 B]
Get:33 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [116 B]
Get:34 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [116 B]
Get:35 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports/universe Translation-en [116 B]
Fetched 28.3 MB in 6s (5105 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
28 packages can be upgraded. Run 'apt list --upgradable' to see them.

ubuntu@ip-10-0-1-1:~$ 

```





```

ubuntu@ip-172-31-22-285: ~ sudo apt install maven
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
libapache-pom-jar libcommons-io-java libcommons-lang3-java libcommons-parent-jar liberror-prone-jar libgeronimo-annotation-1.3-spec-jar
libgeronimo-interceptor-3.0-spec-jar libguava-jar libjansi-jar libjsr305-jar libmaven-parent-jar libmaven-resolver-jar libmaven-shared-utils-jar libmaven3-core-jar libplexus-cipher-jar libplexus-classworlds-jar
libplexus-component-annotations-jar libplexus-interpolation-jar libplexus-sec-dispatcher-jar libplexus-util2-jar libsisu-inject-jar libsisu-plexus-jar libsisu-util4-jar libwagon-file-jar libwagon-http-shaded-jar
Suggested packages:
libatinject-jar308-api-jar libel-api-jar libcommons-io-jar libcase-jar libcglib-jar libjxr305-jar libmaven-parent-jar libmaven-shared-utils-jar libplexus-util2-jar junit4 testing libcommons-logging-jar
libwagon-provider-jar
The following NEW packages will be installed:
libapache-pom-jar libcommons-parent-jar libatinject-jar308-api-jar libcdi-api-jar libcommons-cli-jar libcommons-lang3-jar libcommons-parent-jar liberror-prone-jar libgeronimo-annotation-1.3-spec-jar
libplexus-component-annotations-jar libplexus-interpolation-jar libplexus-sec-dispatcher-jar libplexus-util2-jar libsisu-inject-jar libsisu-plexus-jar libsisu-util4-jar libwagon-file-jar libwagon-http-shaded-jar
libwagon-provider-api-jar maven
0 upgraded, 32 newly installed, 0 to remove and 0 not upgraded.
Need to get 0 B/10.1 MB of additional disk space.
After this operation, 13.1 MB of additional disk space will be used.
Do you want to continue? [Y/n]
Get: http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libapache-pom-jar all 29-2 [5984 B]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libatinject-jar308-api-jar all 1.6+ds1-5 [5348 B]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libgeronimo-interceptor-3.0-spec-jar all 1.6.1-4fakesync [8616 B]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libcdi-api-jar all 1.2-3 [54.3 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libcommons-parent-jar all 2.1.0-2 [107.4 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libcommons-parent-jar all 2.1.0-1 [156.7 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libcommons-parent-jar all 2.1.1-2 [297 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 liberror-prone-jar all 2.1.0-1 [186.8 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libguice-jar all 4.2.3-2 [1434 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libguava-jar all 2.1.0-1 [27.8 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libguava-jar all 2.1.0-1 [22.5 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libmaven-parent-jar all 2.0.1-1 [11.2 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libmaven-parent-jar all 2.0.1-1 [8166 B]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libplexus-interpolation-jar all 2.0.3-2 [28.1 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libplexus-interpolation-jar all 2.0.3-1 [17.4 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libplexus-interpolation-jar all 2.1.0-1 [27.8 kB]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libplexus-util2-jar all 3.2.8.1-1 [2692 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libwagon-provider-jar all 1.2-3 [22.5 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libwagon-provider-jar all 1.2.1-1 [11.2 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libwagon-shared-utils-jar all 3.9.4-1 [157 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libplexus-cipher-jar all 2.0-0-1 [14.7 kB]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libplexus-parent-classworlds-jar all 2.0-0-1 [8.4 kB]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libplexus-component-annotations-jar all 2.1.1-1 [6558 B]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libplexus-interpolation-jar all 2.1.0-2 [76.8 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libplexus-sec-dispatcher-jar all 2.0-0-3 [28.1 kB]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libsisu-inject-jar all 0.3.4-2 [247 kB]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libsisu-plexus-jar all 0.3.4-3 [181 kB]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libwagon-resolver-jar all 2.0.1-1 [719 B]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libwagon-resolver-jar all 3.5.0-1 [719 B]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 libwagon-http-shaded-jar all 3.5.3-1 [1332 kB]
Get:31 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble/universe amd64 maven all 3.8.7-2 [10.3 kB]
Extracting templates from packages: 100%
Extracting previously unselected package libapache-pom-jar.
Reading package lists... Done
Preparing to unpack .../libapache-pom-jar_29-2_all.deb ...
Unpacking libapache-pom-jar (29-2) ...
Selecting previously unselected package libatinject-jar308-api-jar.
Preparing to unpack .../libatinject-jar308-api-jar_1.6+ds1-5_all.deb ...
Unpacking libatinject-jar308-api-jar (1.6+ds1-5) ...
Selecting previously unselected package libgeronimo-interceptor-3.0-spec-jar.
Preparing to unpack .../libgeronimo-interceptor-3.0-spec-jar_1.6.1-4fakesync_all.deb ...
Unpacking libgeronimo-interceptor-3.0-spec-jar (1.6.1-4fakesync) ...
Selecting previously unselected package libcdi-api-jar.
Preparing to unpack .../libcdi-api-jar_1.2-3_all.deb ...
Unpacking libcdi-api-jar (1.2-3) ...
Selecting previously unselected package libcommons-parent-jar.
Preparing to unpack .../libcommons-parent-jar_1.6.0-1_all.deb ...
Selecting previously unselected package libcommons-parent-jar.
Unpacking libcommons-parent-jar (1.6.0-1) ...

```

## 5. L5 - Install Tomcat web application server in AWS EC2 Ubuntu Instance and access Tomcat using a web browser

The screenshot shows the AWS EC2 Instances page. On the left is a navigation sidebar with links like EC2 Dashboard, EC2 Global View, Events, and Instances (selected). Under Instances, there are sub-links for 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, Network Interfaces, and Load Balancing. The main content area displays a table titled 'Instances (1) Info'. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, Public IPv4 DNS, and Public IPv4. One row is shown for 'Tomcat-server' with the details: Name - Tomcat-server, Instance ID - i-0f656bd0ab5142f8a, Instance state - Running, Instance type - t2.micro, Status check - 2/2 checks passed, Alarm status - View alarms +, Availability Zone - us-east-1b, Public IPv4 DNS - ec2-54-86-40-241.com..., and Public IPv4 - 54.86.40.2. At the bottom of the table is a button labeled 'Launch instances'.

The screenshot shows the AWS EC2 Instance details page for the instance 'Tomcat-server'. The top navigation bar includes links for EC2, Instances, and the specific instance ID. The main content area is titled 'Instance summary for i-0f656bd0ab5142f8a (Tomcat-server)' and shows various configuration details. These include Instance ID (i-0f656bd0ab5142f8a), Public IPv4 address (54.86.40.241), Private IPv4 addresses (172.31.18.31), Public IPv4 DNS (ec2-54-86-40-241.compute-1.amazonaws.com), and Private IP DNS name (ip-172-31-18-31.ec2.internal). Other details listed include Instance state (Running), Hostname type (IP name: ip-172-31-18-31.ec2.internal), Answer private resource DNS name (IPv4 (A)), Auto-assigned IP address (54.86.40.241 [Public IP]), VPC ID (vpc-06d1550e318df5103), IAM Role (None), Subnet ID (subnet-07d2add54f6067dd7), and more. Below the summary, there are tabs for Details, Status and alarms, Monitoring, Security, Networking, Storage, and Tags. A section titled 'Instance details' provides further information about the platform (Ubuntu (Inferred)), AMI ID (ami-04b70fa74e45c3917), AMI name (ubuntu/images/hvm-ssd-gp3/ubuntu-noble-24.04-amd64-server-20240423), Stop protection (Disabled), Launch time, and AMI location.

```

sugorash@sugorash-MBP Downloads % ssh -l "sugorash.pem" ubuntu@ec2-54-86-40-241.compute-1.amazonaws.com
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1000-ses x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of Thu May 23 11:45:19 UTC 2024
System load: 0.0 Processes: 184
Usage of /: 35.2% of 6.71GB Users logged in: 0
Memory usage: 22% IPv4 address for enx0: 172.31.18.31
Swap usage: 0B

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

*** System restart required ***
Last login: Thu May 23 11:39:22 2024 from 103.39.127.33
ubuntu@ip-172-31-18-31:~$ 

Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
ubuntu@ip-172-31-18-31:~$ sudo apt install default-jdk -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
default-jdk is already the newest version (2:1.21-75+exp1).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
ubuntu@ip-172-31-18-31:~$ wget https://dldcdn.apache.org/tomcat/tomcat-9/v9.0.89/bin/apache-tomcat-9.0.89.tar.gz
--2024-05-23 11:45:55 -- https://dldcdn.apache.org/tomcat/tomcat-9/v9.0.89/bin/apache-tomcat-9.0.89.tar.gz
Resolving dldcdn.apache.org (dldcdn.apache.org) ... 101.101.2.132, 2844:aed2:1644
Connecting to dldcdn.apache.org (dldcdn.apache.org)|101.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11756919 (11M) [application/x-xz]
Saving to 'apache-tomcat-9.0.89.tar.gz'

apache-tomcat-9.0.89.tar.gz                                         100%[=====] 11.21M ---K/s   in 0.07s
2024-05-23 11:45:56 (154 MB/s) - 'apache-tomcat-9.0.89.tar.gz' saved [11756919/11756919]
ubuntu@ip-172-31-18-31:~$ 

```

```

sugorash@sugorash-MBP Downloads % ssh -l "sugorash.pem" ubuntu@ec2-54-86-40-241.compute-1.amazonaws.com
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-1000-ses x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of Thu May 23 11:45:19 UTC 2024
System load: 0.0 Processes: 184
Usage of /: 35.2% of 6.71GB Users logged in: 0
Memory usage: 22% IPv4 address for enx0: 172.31.18.31
Swap usage: 0B

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

*** System restart required ***
Last login: Thu May 23 11:39:22 2024 from 103.39.127.33
ubuntu@ip-172-31-18-31:~$ 

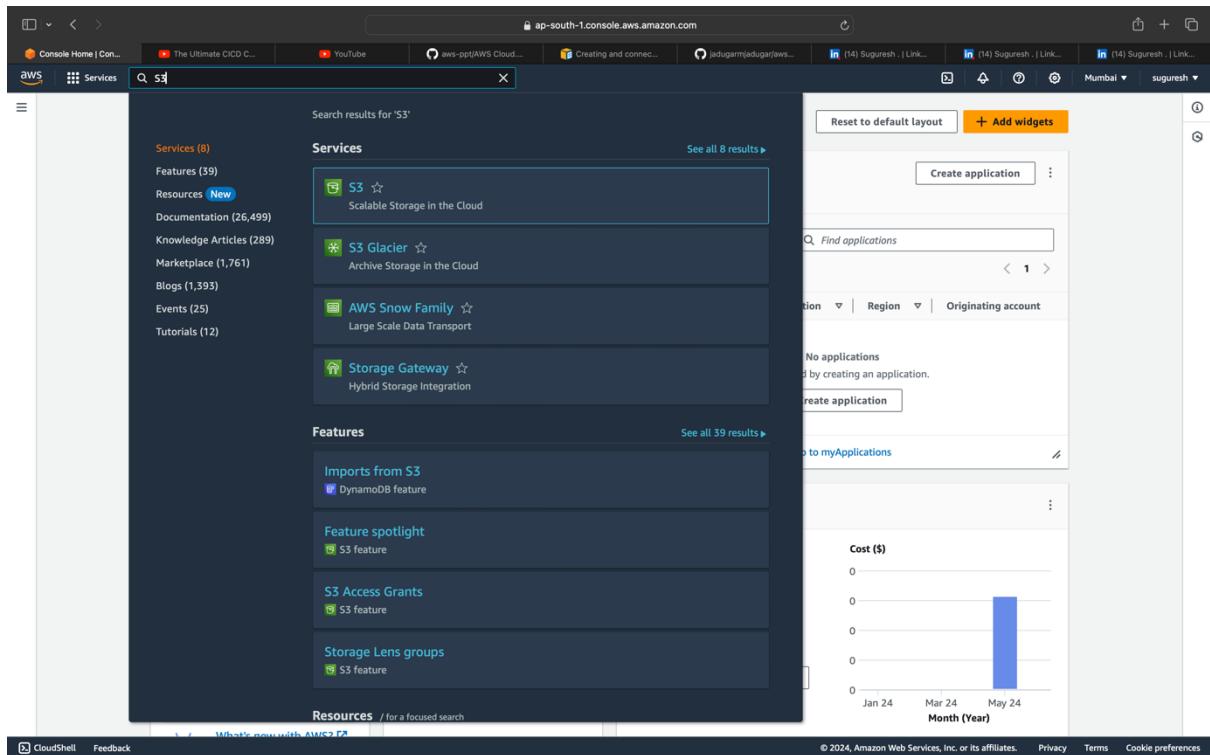
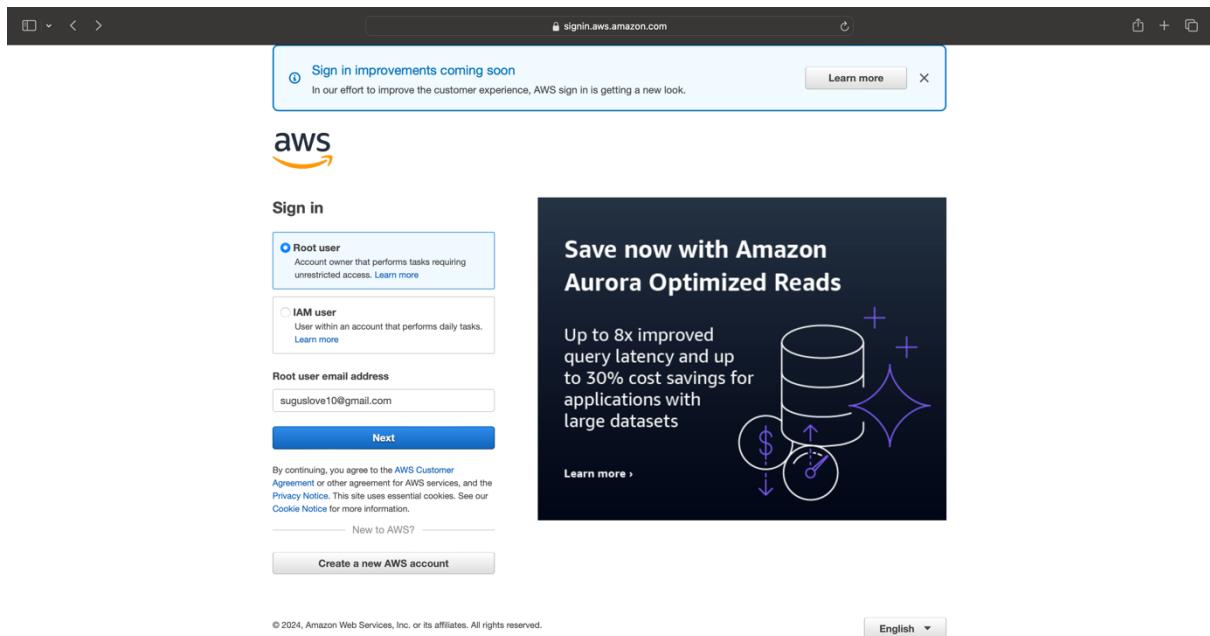
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu noble-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
ubuntu@ip-172-31-18-31:~$ sudo apt install default-jdk -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
default-jdk is already the newest version (2:1.21-75+exp1).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
ubuntu@ip-172-31-18-31:~$ wget https://dldcdn.apache.org/tomcat/tomcat-9/v9.0.89/bin/apache-tomcat-9.0.89.tar.gz
--2024-05-23 11:45:55 -- https://dldcdn.apache.org/tomcat/tomcat-9/v9.0.89/bin/apache-tomcat-9.0.89.tar.gz
Resolving dldcdn.apache.org (dldcdn.apache.org) ... 101.101.2.132, 2844:aed2:1644
Connecting to dldcdn.apache.org (dldcdn.apache.org)|101.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11756919 (11M) [application/x-xz]
Saving to 'apache-tomcat-9.0.89.tar.gz'

apache-tomcat-9.0.89.tar.gz                                         100%[=====] 11.21M ---K/s   in 0.07s
2024-05-23 11:45:56 (154 MB/s) - 'apache-tomcat-9.0.89.tar.gz' saved [11756919/11756919]
ubuntu@ip-172-31-18-31:~$ tar -xvzf apache-tomcat-9.0.89.tar.gz
apache-tomcat-9.0.89/
apache-tomcat-9.0.89/conf/catalina.policy
apache-tomcat-9.0.89/conf/catalina.properties
apache-tomcat-9.0.89/conf/context.xml
apache-tomcat-9.0.89/conf/jndi-providers.xml
apache-tomcat-9.0.89/conf/jaspic-providers.xsd
apache-tomcat-9.0.89/conf/logging.properties
apache-tomcat-9.0.89/conf/realm.xsd
apache-tomcat-9.0.89/conf/tomcat-users.xml
apache-tomcat-9.0.89/conf/tomcat-users.xsd
apache-tomcat-9.0.89/conf/web.xml
apache-tomcat-9.0.89/lib/
apache-tomcat-9.0.89/lib/1ib/
apache-tomcat-9.0.89/lib/
apache-tomcat-9.0.89/lib/webapps/
apache-tomcat-9.0.89/lib/webapps/ROOT/
apache-tomcat-9.0.89/lib/webapps/ROOT/META-INF/
apache-tomcat-9.0.89/lib/webapps/docs/
apache-tomcat-9.0.89/lib/webapps/docs/META-INF/
apache-tomcat-9.0.89/lib/webapps/docs/META-INF/

```



## 6. L6 - Create S3 Bucket and add folders and files



Screenshot of the Amazon S3 landing page:

The page title is "Amazon S3" and the subtitle is "Store and retrieve any amount of data from anywhere". A brief description states: "Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance." To the right, there's a "Create a bucket" call-to-action with a "Create bucket" button.

Below the main content, there's a section titled "How it works" featuring a video thumbnail titled "Introduction to Amazon S3" on YouTube. The thumbnail shows the AWS logo and the URL "aws.amazon.com/S3". Below the thumbnail, a caption reads: "Customers of all sizes and industries can store and protect any amount of data for virtually any use case, such as data."

On the right side, there are two sections: "Pricing" and "Resources". The "Pricing" section includes a note about no minimum fees, a link to the "AWS Simple Monthly Calculator", and a "View pricing details" button. The "Resources" section links to "User guide", "API reference", "FAQs", and "Discussion forums".

Screenshot of the AWS Cloud Console showing the creation of a new S3 bucket:

A green banner at the top indicates: "Successfully created bucket 'sugusbucket'. To upload files and folders, or to configure additional bucket settings, choose View details." There is a "View details" button next to the banner.

The main area shows the "Buckets" page under the "Amazon S3" service. It displays an "Account snapshot - updated every 24 hours" with a "View Storage Lens dashboard" button. Below this, there are tabs for "General purpose buckets" and "Directory buckets".

The "General purpose buckets" table lists one item:

Name	AWS Region	IAM Access Analyzer	Creation date
sugusbucket	Asia Pacific (Mumbai) ap-south-1	<a href="#">View analyzer for ap-south-1</a>	June 6, 2024, 18:38:07 (UTC+05:30)

At the bottom of the page, there are buttons for "CloudShell", "Feedback", and copyright information: "© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences".

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with various links like 'The Ultimate CI/CD ...', 'YouTube', 'aws-ppt/AWS Cloud...', 'Creating and connec...', '(14) Suguresh . | Link...', '(14) Suguresh . | Link...', '(14) Suguresh . | Link...', and 'Mumbai'. Below the navigation bar, the main header reads 'Amazon S3 > Buckets > sugusbucket'. The page title is 'sugusbucket Info'. A horizontal menu bar below the title includes 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. The 'Objects' tab is selected. A sub-menu for 'Objects (0) Info' is shown, containing buttons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', 'Actions', 'Create folder', and 'Upload'. A search bar labeled 'Find objects by prefix' is present. A table header for object listing includes columns for 'Name', 'Type', 'Last modified', 'Size', and 'Storage class'. The main content area displays a message: 'No objects' and 'You don't have any objects in this bucket.' A prominent 'Upload' button is at the bottom of the list.

This screenshot is from the same AWS S3 console session as the previous one. It shows the same navigation bar and 'Amazon S3 > Buckets > sugusbucket' path. The main content area now displays a green success message: 'Successfully created folder "my-folder".' The 'Objects' tab is still selected, and the 'Objects (1) Info' sub-menu is visible with its standard set of actions. The table below shows one item: 'my-folder/' which is a 'Folder'. The rest of the interface is identical to the first screenshot, including the search bar and the 'Upload' button.

Upload objects - S3... The Ultimate CICD C... YouTube aws-ppt/AWS Cloud... Creating and connec... jadugar/jadugar/aws... (14) Suguresh... | Link... (14) Suguresh... | Link... Mumbai sugresh

Upload succeeded

View details below.

### Upload: status

The information below will no longer be available after you navigate away from this page.

#### Summary

Destination	Succeeded	Failed
s3://sugusbucket/my-folder/	1 file, 206.0 B (100.00%)	0 files, 0 B (0%)

Files and folders Configuration

#### Files and folders (1 Total, 206.0 B)

Name	Folder	Type	Size	Status	Error
firmware.m... <a href="#">🔗</a>	-	-	206.0 B	<span style="color: green;">Succeeded</span>	-

Find by name

Close

cloudShell Feedback © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Upload objects - S3... The Ultimate CICD C... YouTube aws-ppt/AWS Cloud... Creating and connec... jadugar/jadugar/aws... (14) Suguresh... | Link... (14) Suguresh... | Link... Mumbai sugresh

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose Add files or Add folder.

#### Files and folders (3 Total, 864.0 KB)

All files and folders in this table will be uploaded.

Name	Folder
abl.img	-
aop.img	-
bluetooth.img	-

Find by name

#### Destination info

Destination: s3://sugusbucket/my-folder/Custom ROM/

Destination details: Bucket settings that impact new objects stored in the specified destination.

Permissions: Grant public access and access to other AWS accounts.

Properties: Specify storage class, encryption settings, tags, and more.

Cancel Upload

Screenshot of the AWS S3 console showing an upload progress bar for 3 files (644.0 KB total) at 25% completion. The destination is s3://sugusbucket/my-folder/Custom ROM/.

**Upload: status**

The information below will no longer be available after you navigate away from this page.

**Summary**

Destination	Succeeded	Failed
s3://sugusbucket/my-folder/Custom ROM/	0 files, 220.0 KB (25.46%)	0 files, 0 B (0%)

**Files and folders** Configuration

**Files and folders (3 Total, 864.0 KB)**

Name	Folder	Type	Size	Status	Error
abl.img	-	application/...	220.0 KB	In progress (10)	-
aop.img	-	application/...	200.0 KB	Pending	-
bluetooth.img	-	application/...	444.0 KB	Pending	-

Screenshot of the AWS S3 console showing an upload success message for 3 files (864.0 KB total) at 100.00% completion. The destination is s3://sugusbucket/my-folder/Custom ROM/.

**Upload succeeded**  
View details below.

**Upload: status**

The information below will no longer be available after you navigate away from this page.

**Summary**

Destination	Succeeded	Failed
s3://sugusbucket/my-folder/Custom ROM/	3 files, 864.0 KB (100.00%)	0 files, 0 B (0%)

**Files and folders** Configuration

**Files and folders (3 Total, 864.0 KB)**

Name	Folder	Type	Size	Status	Error
abl.img	-	application/...	220.0 KB	Succeeded	-
aop.img	-	application/...	200.0 KB	Succeeded	-
bluetooth.i...	-	application/...	444.0 KB	Succeeded	-

Screenshot of the AWS S3 console showing the contents of a bucket named "sugusbucket". The bucket contains a folder named "my-folder/" which contains two objects: "Custom ROM/" (a folder) and "firmware.mk" (a file). The "firmware.mk" file was uploaded on June 6, 2024, at 18:50:31 (UTC+05:30) and has a size of 206.0 B.

The browser address bar shows: ap-south-1.console.aws.amazon.com

The AWS navigation bar includes: Services, Search, [Option+S], Mumbai, sugus.

The S3 object list table:

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	Custom ROM/	Folder	-	-	-
<input type="checkbox"/>	firmware.mk	mk	June 6, 2024, 18:50:31 (UTC+05:30)	206.0 B	Standard