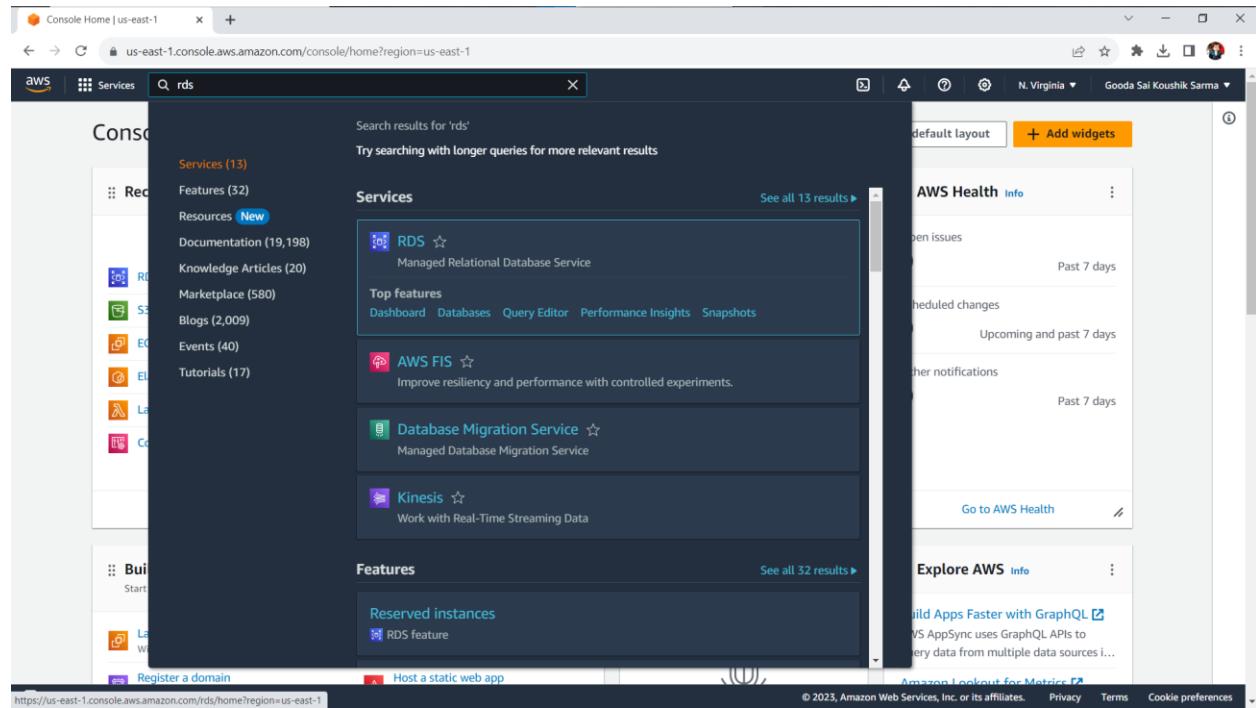


Suraj

Spring Boot Web Application Deployment using AWS EC2 and AWS RDS Services

Open the AWS management console

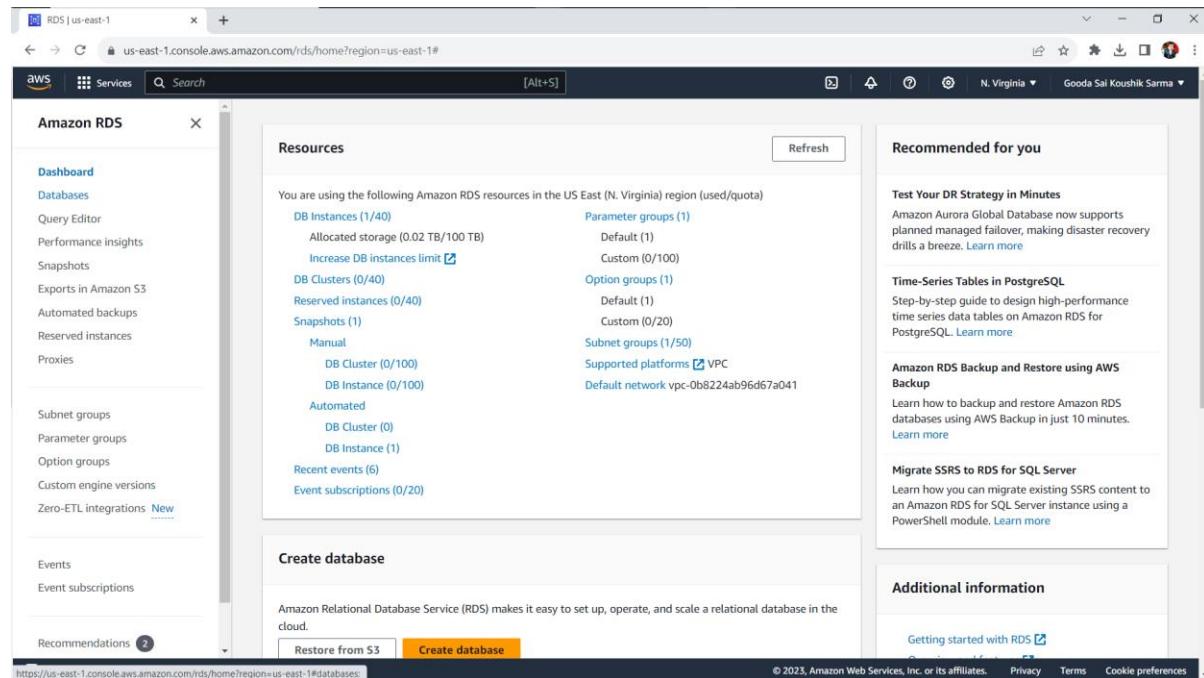
Search for RDS



The screenshot shows the AWS Management Console search results for 'rds'. The search bar at the top contains 'rds'. The results are categorized into 'Services' (13) and 'Features' (32). The 'Services' section includes RDS (Managed Relational Database Service), AWS FIS (Improve resiliency and performance with controlled experiments), Database Migration Service (Managed Database Migration Service), and Kinesis (Work with Real-Time Streaming Data). The 'Features' section includes Reserved instances and RDS feature. On the right side, there are two open widgets: 'AWS Health' (Info) and 'Explore AWS' (Info). The 'AWS Health' widget shows 'Open issues' (Past 7 days), 'Scheduled changes' (Upcoming and past 7 days), and 'Other notifications' (Past 7 days). The 'Explore AWS' widget shows 'Build Apps Faster with GraphQL' (AWS AppSync uses GraphQL APIs to query data from multiple data sources) and 'Amazon Lookout for Metrics' (Amazon Lookout for Metrics uses machine learning to detect anomalies in time-series data). The bottom of the screen shows the AWS footer with links for 'Build Apps Faster with GraphQL', 'Amazon Lookout for Metrics', 'Privacy', 'Terms', and 'Cookie preferences'.

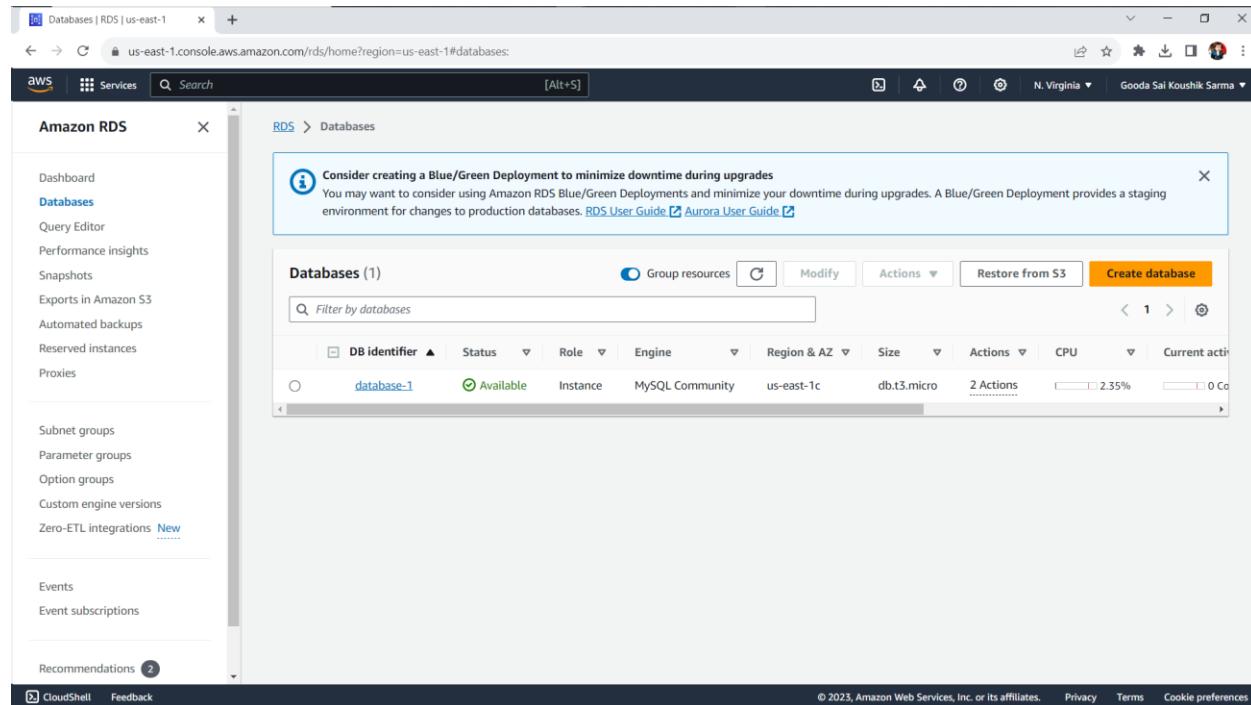
Suraj

Select databases from the left



The screenshot shows the AWS RDS console in the US East (N. Virginia) region. The left sidebar is collapsed, and the main content area is titled 'Resources'. It displays various Amazon RDS resources: DB Instances (1/40), Parameter groups (1), DB Clusters (0/40), Option groups (1), Snapshots (1), and Subnet groups (1/50). Below these, there are sections for 'Recent events (6)' and 'Event subscriptions (0/20)'. To the right, a 'Recommended for you' sidebar offers links to 'Test Your DR Strategy in Minutes', 'Time-Series Tables in PostgreSQL', 'Amazon RDS Backup and Restore using AWS Backup', and 'Migrate SSRS to RDS for SQL Server'. At the bottom, there is an 'Additional information' section with a 'Getting started with RDS' link. The 'Create database' button is prominently displayed in the center of the main content area.

Click on create database



The screenshot shows the AWS RDS console in the US East (N. Virginia) region, specifically the 'Databases' section. The left sidebar is collapsed. A callout box in the top right corner provides information about Blue/Green Deployments. The main content area shows a table of databases with one entry: 'database-1' (Status: Available, Engine: MySQL Community, Region & AZ: us-east-1c, Size: db.t3.micro). The 'Create database' button is highlighted in orange at the top right of the table. The bottom of the screen shows standard AWS navigation links for CloudShell and Feedback.

Select MySQL

TS

Create database

Choose a database creation method [Info](#)

Standard create
You set all of the configuration options, including ones for availability, security, backups, and maintenance.

Easy create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type [Info](#)

Aurora (MySQL Compatible) 

Aurora (PostgreSQL Compatible) 

MySQL 

MariaDB 

PostgreSQL 

Oracle 

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

Select Free-Tier ONLY

Engine Version

MySQL 8.0.33

Templates

Choose a sample template to meet your use case.

Production
Use defaults for high availability and fast, consistent performance.

Dev/Test
This instance is intended for development use outside of a production environment.

Free tier
Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS. [Info](#)

Availability and durability

Deployment options [Info](#)

The deployment options below are limited to those supported by the engine you selected above.

Multi-AZ DB Cluster - new
Creates a DB cluster with a primary DB instance and two read-only standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.

Multi-AZ DB instance (not supported for Multi-AZ DB cluster snapshot)
Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.

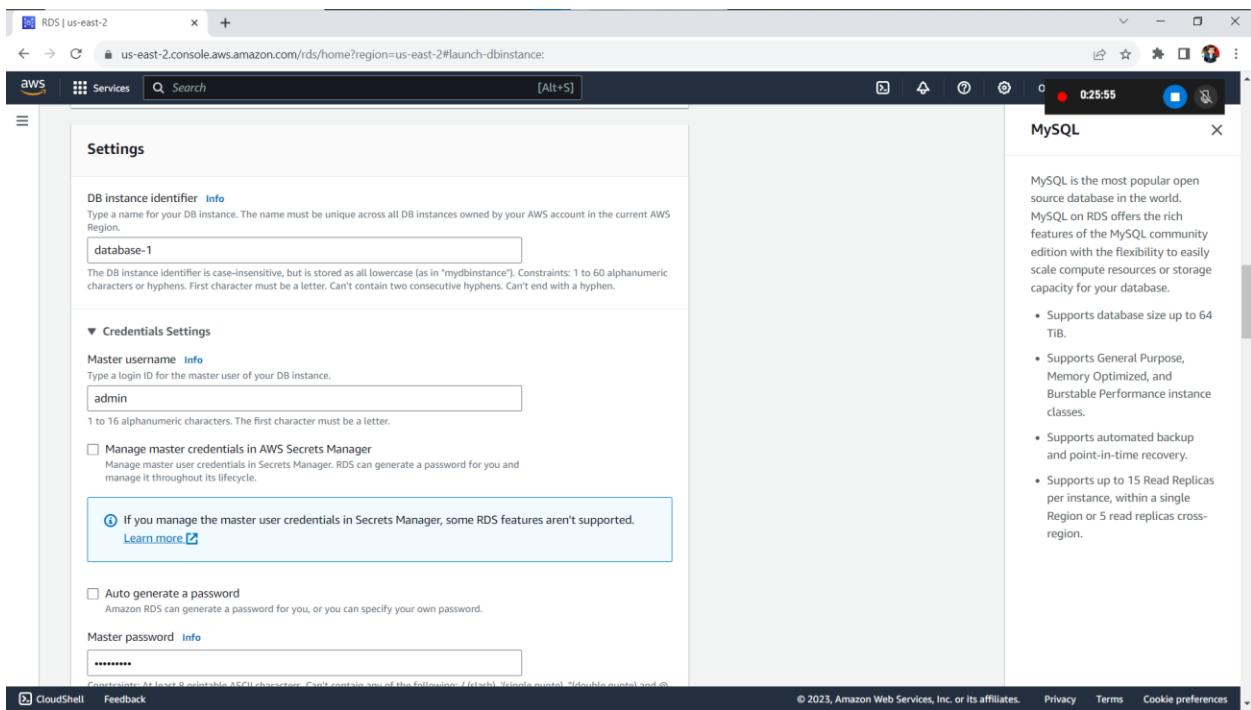
Single DB instance (not supported for Multi-AZ DB cluster snapshot)
Creates a single DB instance with no standby DB instances.

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

Provide Username and Password (Store them)



RDS | us-east-2

DB instance identifier [Info](#)
Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

database-1

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ Credentials Settings

Master username [Info](#)
Type a login ID for the master user of your DB instance.

admin

1 to 16 alphanumeric characters. The first character must be a letter.

Manage master credentials in AWS Secrets Manager
Manage master user credentials in Secrets Manager. RDS can generate a password for you and manage it throughout its lifecycle.

ⓘ If you manage the master user credentials in Secrets Manager, some RDS features aren't supported. [Learn more](#)

Auto generate a password
Amazon RDS can generate a password for you, or you can specify your own password.

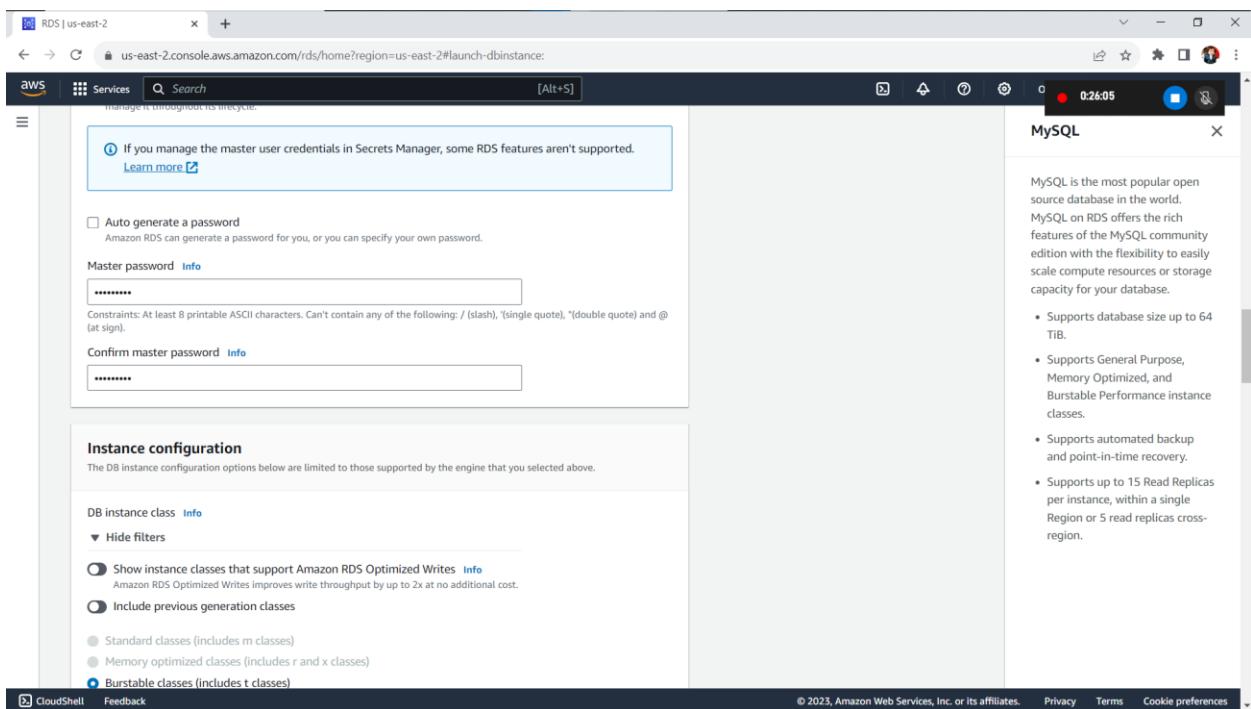
Master password [Info](#)

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), ' (single quote), " (double quote), and @ (at sign).

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.



RDS | us-east-2

Manage it throughout its lifecycle.

ⓘ If you manage the master user credentials in Secrets Manager, some RDS features aren't supported. [Learn more](#)

Auto generate a password
Amazon RDS can generate a password for you, or you can specify your own password.

Master password [Info](#)

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), ' (single quote), " (double quote) and @ (at sign).

Confirm master password [Info](#)

Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

▼ Hide filters

Show instance classes that support Amazon RDS Optimized Writes [Info](#)
Amazon RDS Optimized Writes improves write throughput by up to 2x at no additional cost.

Include previous generation classes

Standard classes (includes m classes)

Memory optimized classes (includes r and x classes)

Burstable classes (includes t classes)

MySQL

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

Public Access should be YES

Turjan

Virtual private cloud (VPC) [Info](#)

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Don't connect to an EC2 compute resource
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

Connect to an EC2 compute resource
Set up a connection to an EC2 compute resource for this database.

DB subnet group [Info](#)

Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.

default

Public access [Info](#)

Yes
RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

No
RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

VPC security group (firewall) [Info](#)

Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.

Choose existing
Choose existing VPC security groups

Create new
Create new VPC security group

MySQL

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- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

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RDS | us-east-2

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:

Monitoring

Enable Enhanced monitoring
Enabling Enhanced monitoring metrics are useful when you want to see how different processes or threads use the CPU.

Additional configuration

Database options

Initial database name: [Info](#) **anyname**
If you do not specify a database name, Amazon RDS does not create a database.

DB parameter group: [Info](#) default.mysql8.0

Option group: [Info](#) default:mysql-8.0

Backup

Enable automated backups
Creates a point-in-time snapshot of your database

⚠ Please note that automated backups are currently supported for InnoDB storage engine only. If you are using a different storage engine, automated backups will not be enabled.

CloudShell **Feedback**

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RDS | us-east-2

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:

MySQL

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CloudShell **Feedback**

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RDS | us-east-2

us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#launch-dbinstance:

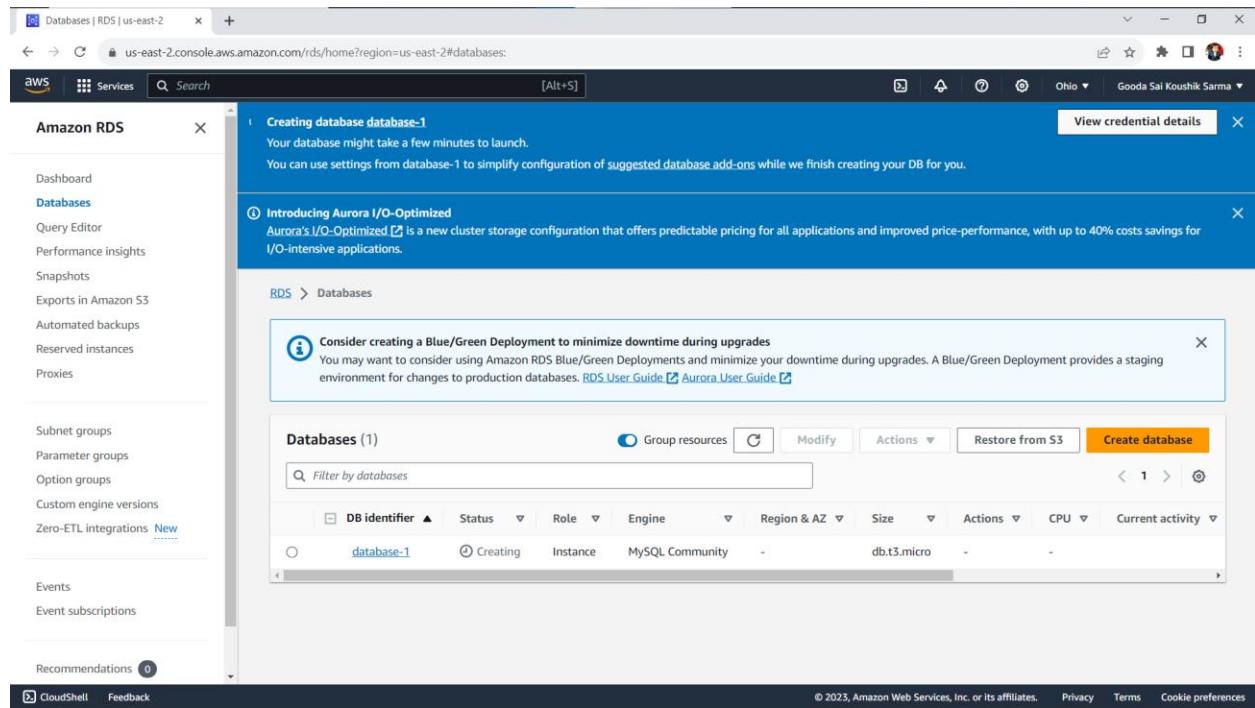
MySQL

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- Supports database size up to 64 TiB.
- Supports General Purpose, Memory Optimized, and Burstable Performance instance classes.
- Supports automated backup and point-in-time recovery.
- Supports up to 15 Read Replicas per instance, within a single Region or 5 read replicas cross-region.

CloudShell **Feedback**

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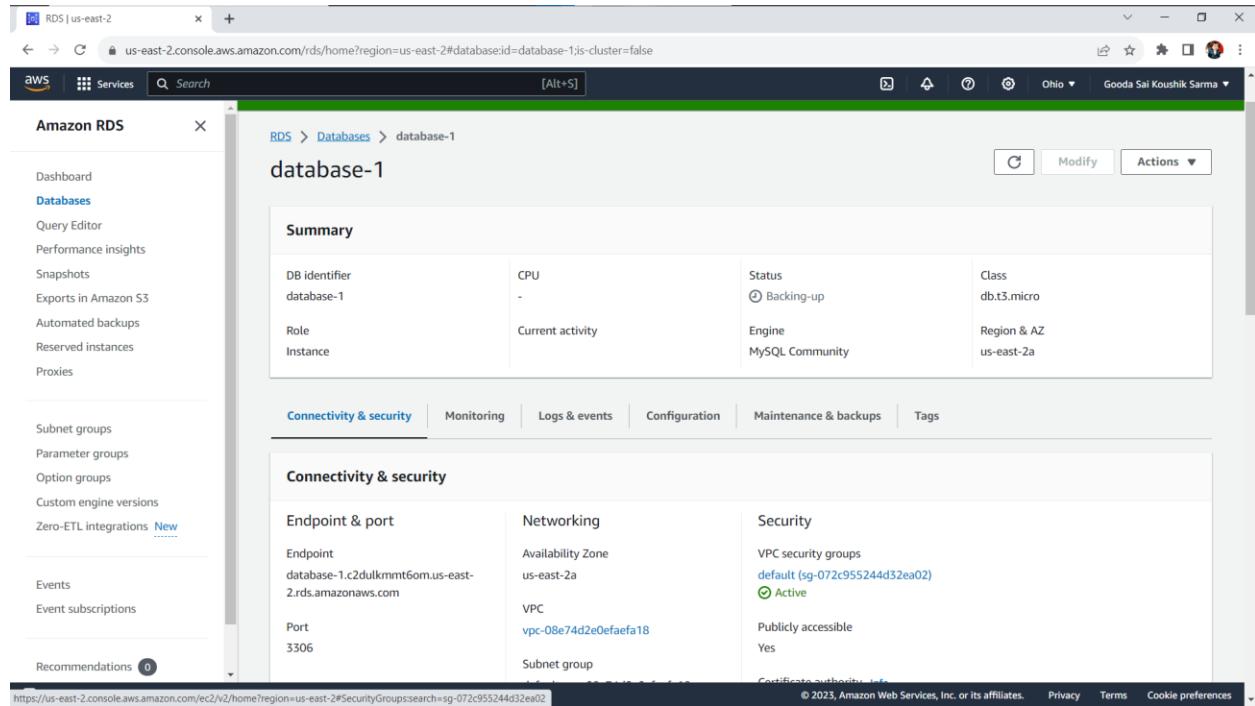
The screenshot shows the AWS RDS console with the following details:

- Creating database database-1**: Your database might take a few minutes to launch. You can use settings from database-1 to simplify configuration of suggested database add-ons while we finish creating your DB for you.
- Introducing Aurora I/O-Optimized**: Aurora's I/O-Optimized is a new cluster storage configuration that offers predictable pricing for all applications and improved price-performance, with up to 40% costs savings for I/O-intensive applications.
- RDS > Databases**: Consider creating a Blue/Green Deployment to minimize downtime during upgrades. You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)
- Databases (1)**: DB Identifier: database-1, Status: Creating, Role: Instance, Engine: MySQL Community, Region & AZ: - (dropdown), Size: db.t3.micro, Actions: - (dropdown), CPU: - (dropdown), Current activity: - (dropdown).

Click on view credential details to view your credentials.

Change the credentials in application.properties

```
application.properties
1 server.port=8080
2
3 #spring datasource properties
4
5
6 spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
7 spring.datasource.url=jdbc:mysql://sdpdatabase.cfmcdxqt3fqc.us-east-1.rds.amazonaws.com:330
8 spring.datasource.username=admin
9 spring.datasource.password=12345678
10
11
```



The screenshot shows the AWS RDS console for the us-east-2 region. The left sidebar is titled 'Amazon RDS' and includes links for Dashboard, Databases (selected), Query Editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, and Proxies. The main content area is titled 'database-1' and has a 'Summary' section with the following details:

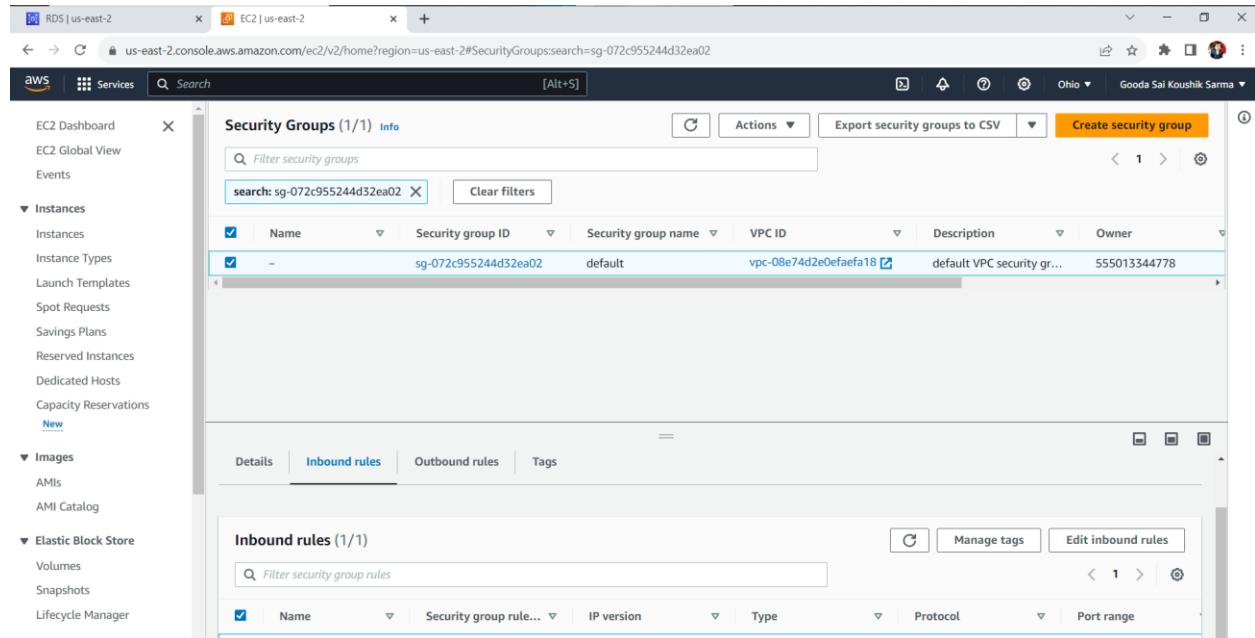
DB identifier	CPU	Status	Class
database-1	-	Backing-up	db.t3.micro
Role	Current activity	Engine	Region & AZ
Instance		MySQL Community	us-east-2a

Below the summary are tabs for Connectivity & security, Monitoring, Logs & events, Configuration, Maintenance & backups, and Tags. The 'Connectivity & security' tab is selected and displays the following information:

Endpoint & port	Networking	Security
Endpoint: database-1.c2dulkmmmt6om.us-east-2.rds.amazonaws.com	Availability Zone: us-east-2a	VPC security groups: default (sg-072c955244d32ea02) (Active)
Port: 3306	VPC: vpc-08e74d2e0efaea18	Publicly accessible: Yes
	Subnet group:	Certificate authority: -

The URL in the address bar is <https://us-east-2.console.aws.amazon.com/rds/home?region=us-east-2#database-id=database-1;is-cluster=false>.

From Security, click on the link of your security group (open in new tab)



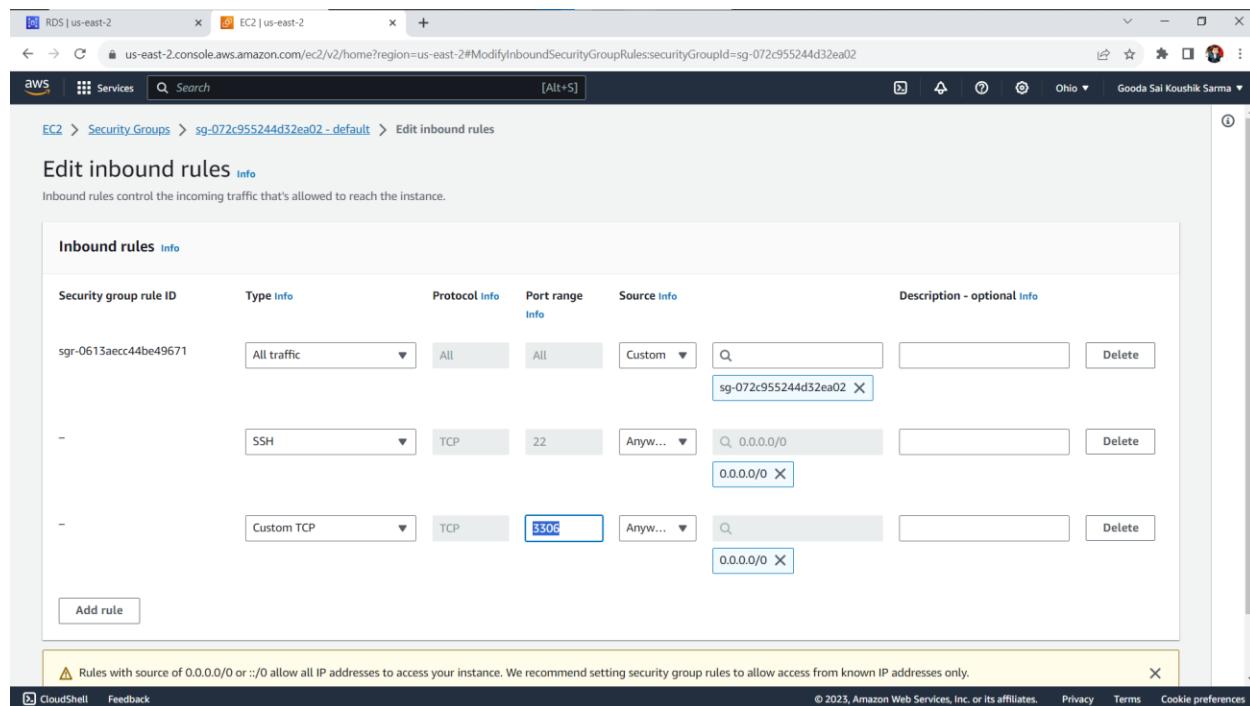
The screenshot shows the AWS EC2 console for the us-east-2 region. The left sidebar includes links for EC2 Dashboard, EC2 Global View, Events, Instances (selected), Images, AMIs, AMI Catalog, and Elastic Block Store. The main content area is titled 'Security Groups (1/1) Info' and shows a table with one row:

Name	Security group ID	Security group name	VPC ID	Description	Owner
-	sg-072c955244d32ea02	default	vpc-08e74d2e0efaea18	default VPC security gr...	555013344778

Below the table are tabs for Details, Inbound rules (selected), Outbound rules, and Tags. The 'Inbound rules (1/1)' section shows a table with one rule:

Name	Security group rule...	IP version	Type	Protocol	Port range
-	-	-	-	-	-

Click on Edit inbound rules



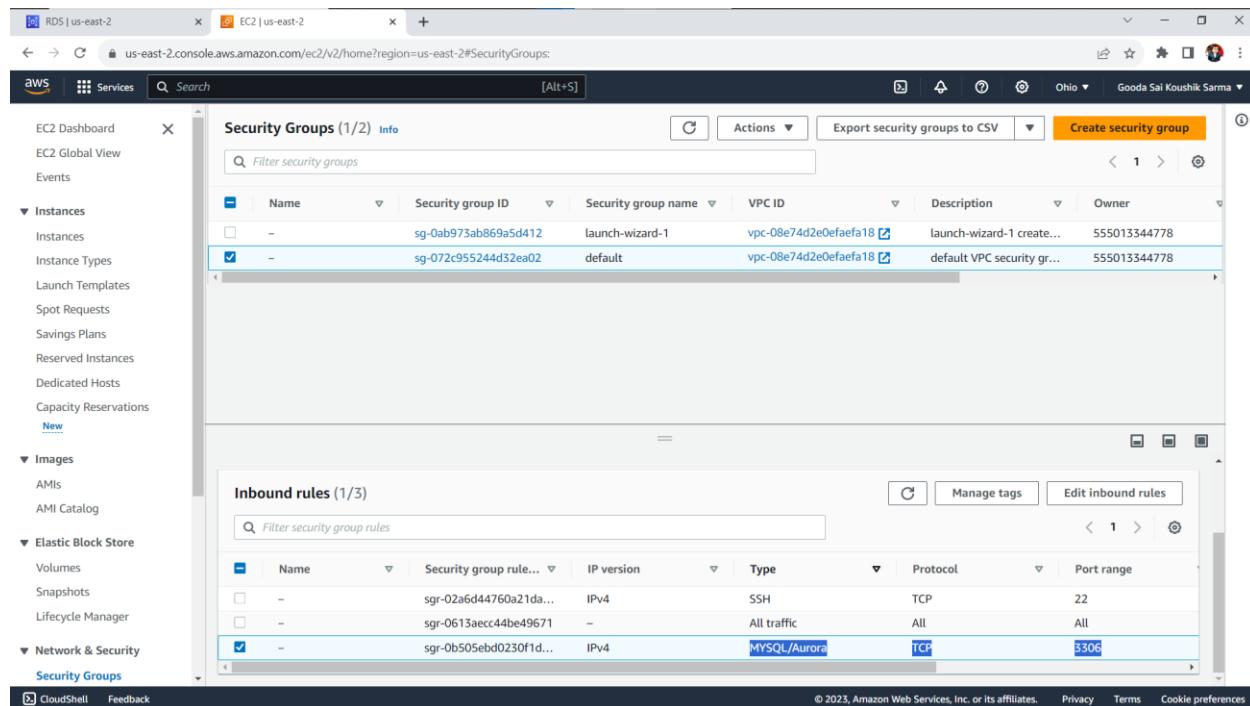
The screenshot shows the AWS EC2 Inbound Rules configuration page. The security group rule table lists three rules:

Security group rule ID	Type Info	Protocol Info	Port range Info	Source Info	Description - optional Info
sgr-0613aecc44be49671	All traffic	All	All	Custom	sg-072c955244d32ea02
-	SSH	TCP	22	Any... 0.0.0.0/0	0.0.0.0/0
-	Custom TCP	TCP	5306	Any... 0.0.0.0/0	0.0.0.0/0

A yellow warning message at the bottom 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."

Click on Save Rules below

We can see that the rule is added



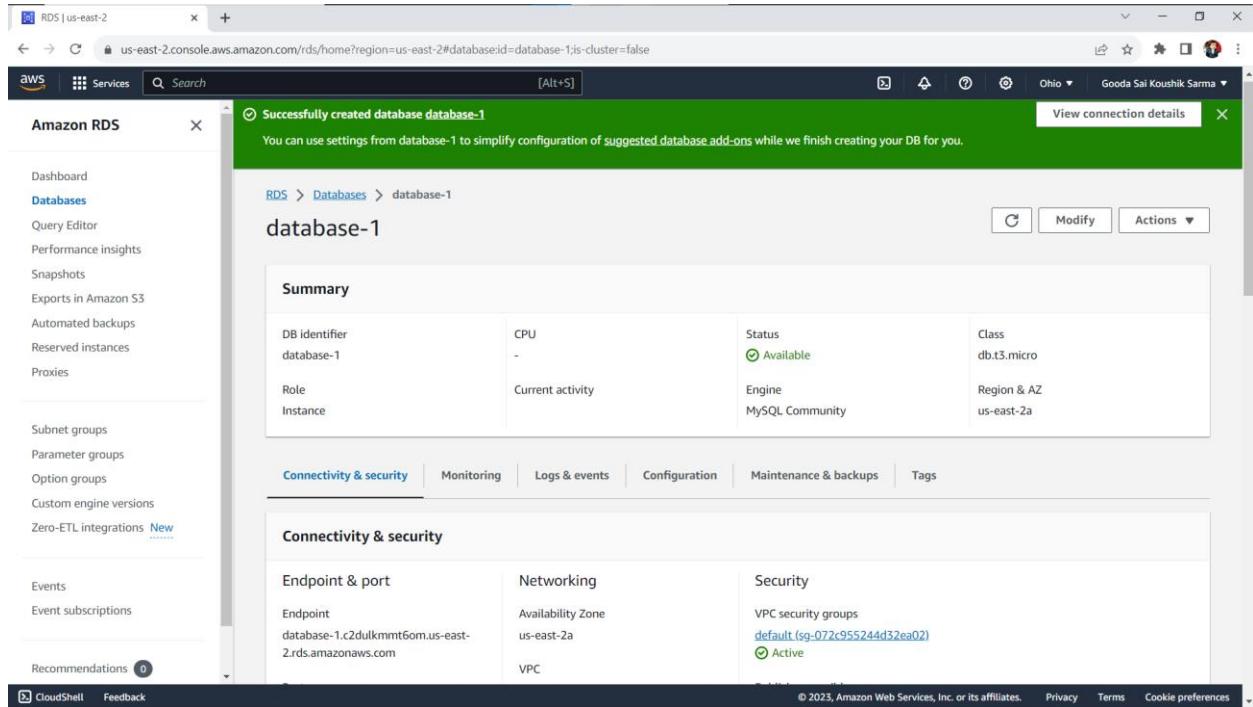
The screenshot shows the AWS EC2 Security Groups page. The security group table lists two groups:

Name	Security group ID	Security group name	VPC ID	Description	Owner
sg-0ab973ab869a5d412	launch-wizard-1	vpc-08e74d2e0efaf18	launch-wizard-1 create...	555013344778	
sg-072c955244d32ea02	default	vpc-08e74d2e0efaf18	default VPC security gr...	555013344778	

The Inbound rules table shows the newly added rule:

Name	IP version	Type	Protocol	Port range
sgr-02a6d44760a21da...	IPv4	SSH	TCP	22
sgr-0613aecc44be49671	-	All traffic	All	All
sgr-0b505ebd0230f1d...	IPv4	MYSQL/Aurora	TCP	5306

Database is created



The screenshot shows the AWS RDS console for the us-east-2 region. A success message at the top states: "Successfully created database database-1. You can use settings from database-1 to simplify configuration of suggested database add-ons while we finish creating your DB for you." The database summary table shows the following details:

DB identifier	CPU	Status	Class
database-1	-	Available	db.t3.micro
Role	Current activity	Engine	Region & AZ
Instance		MySQL Community	us-east-2a

Below the summary, there are tabs for Connectivity & security, Monitoring, Logs & events, Configuration, Maintenance & backups, and Tags. The Connectivity & security tab shows the endpoint and networking details:

Endpoint & port	Networking	Security
Endpoint: database-1.c2dulkmmmt6om.us-east-2.rds.amazonaws.com	Availability Zone: us-east-2a	VPC security groups: default (sg-072c955244d32ea02) (Active)
	VPC	

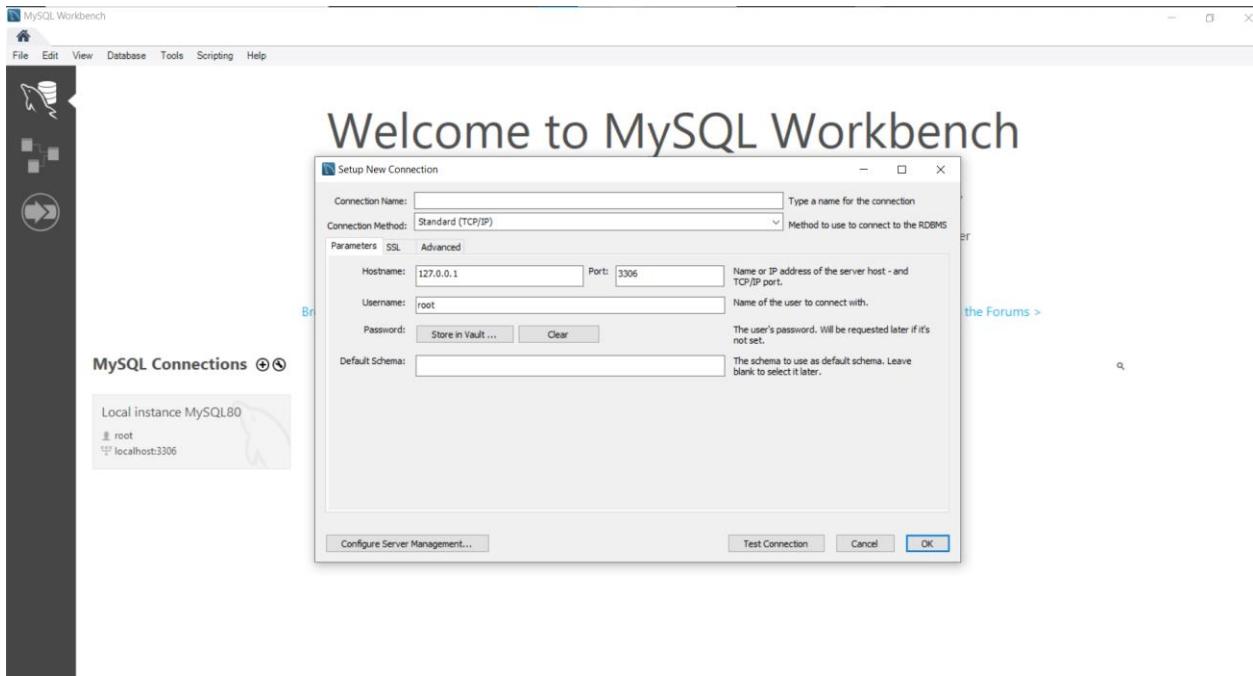
Copy the endpoint and replace it with localhost in application.properties



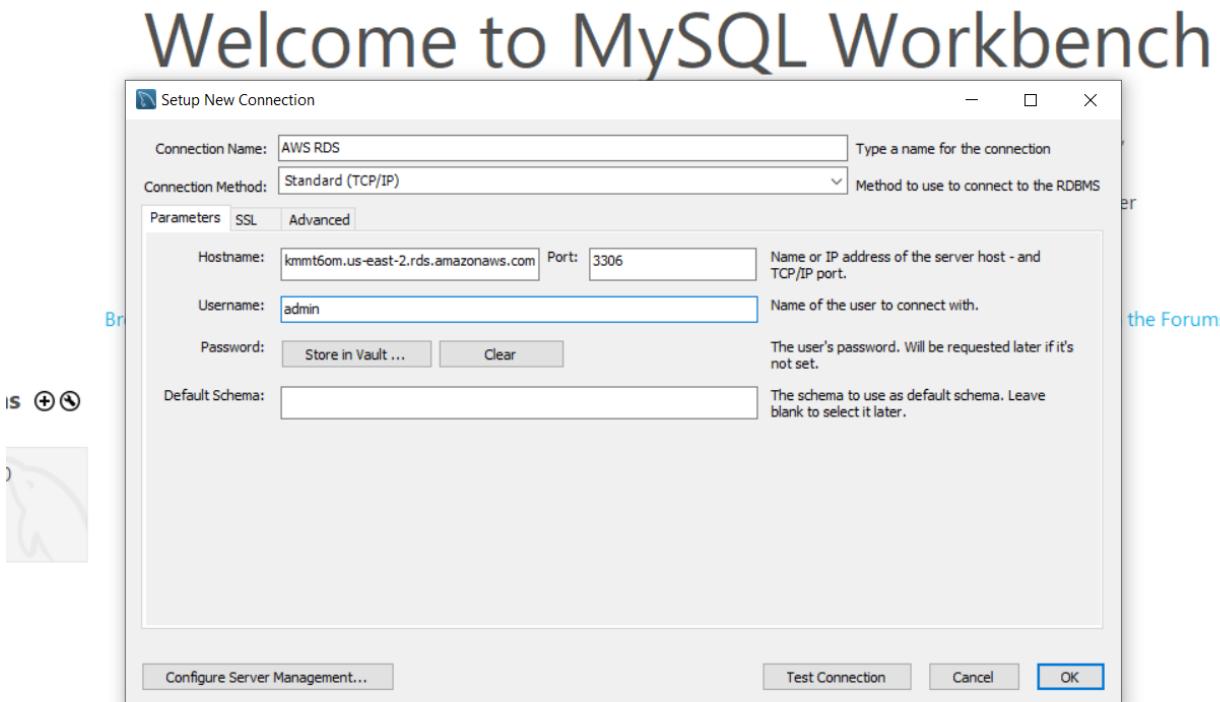
```
application.properties x
1 server.port=8080
2
3 #spring datasource properties
4
5
6 spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
7 spring.datasource.url=jdbc:mysql://sdpdatabase.cfmcdxq3fqc.us-east-1.rds.amazonaws.com:3306/sdpdatabase
8 spring.datasource.username=admin
9 spring.datasource.password=12345678
```

Check with the database name also.

Open MySQL Workbench and click on "+" icon. To create a connection for testing.



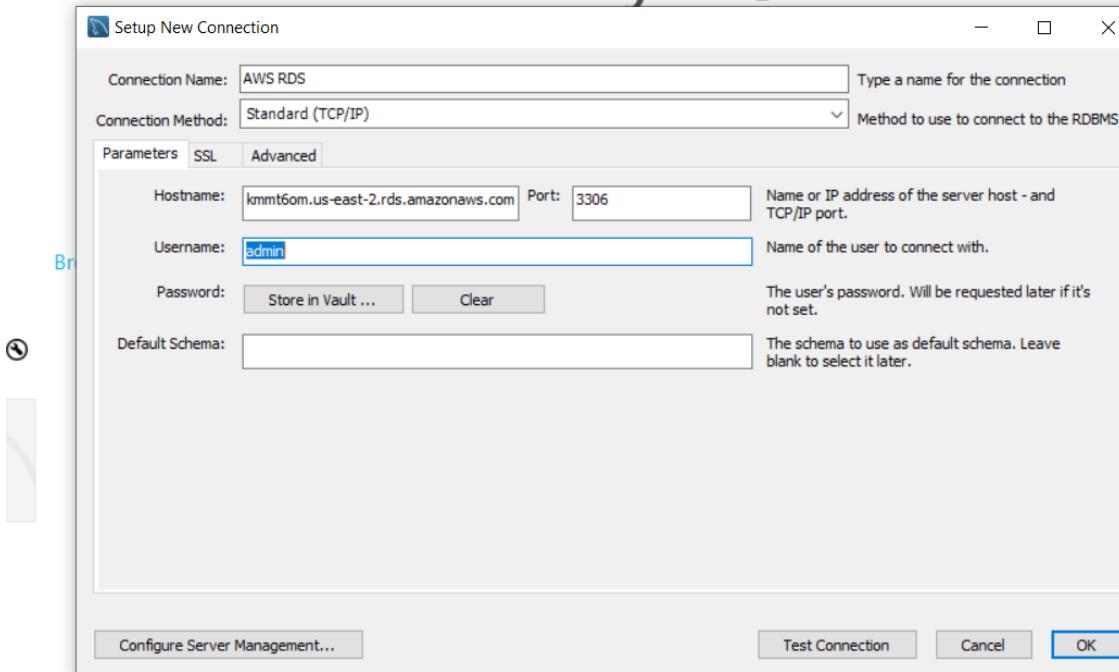
Give Connection name as you wish



Replace the hostname with the endpoint URL. You can find the Endpoint in database which you have created.

Port Number Should be 3306 **ONLY**

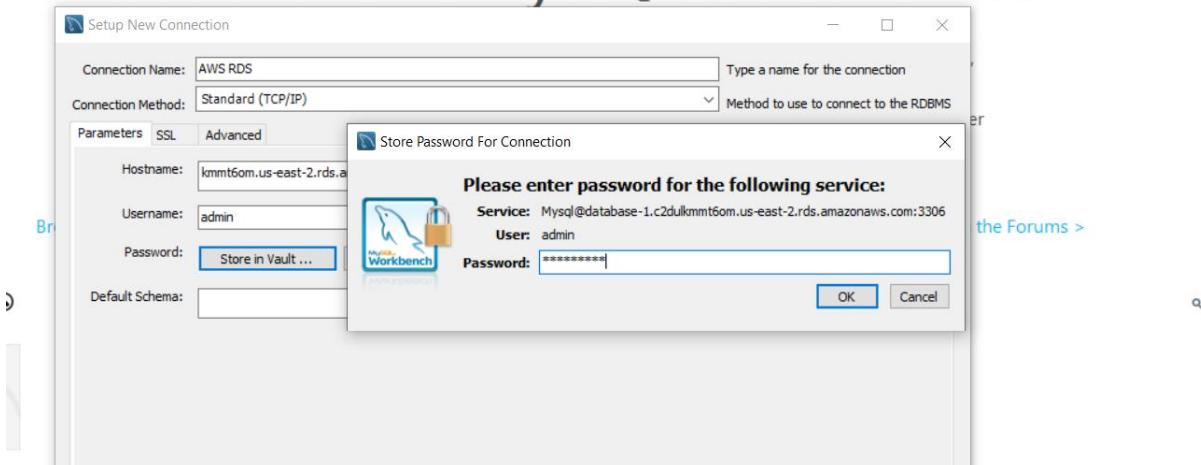
Welcome to MySQL Workbench



Give the username which you have given while creating the database.

Click on "Store In vault" now provide the password that you have given while creating your database.

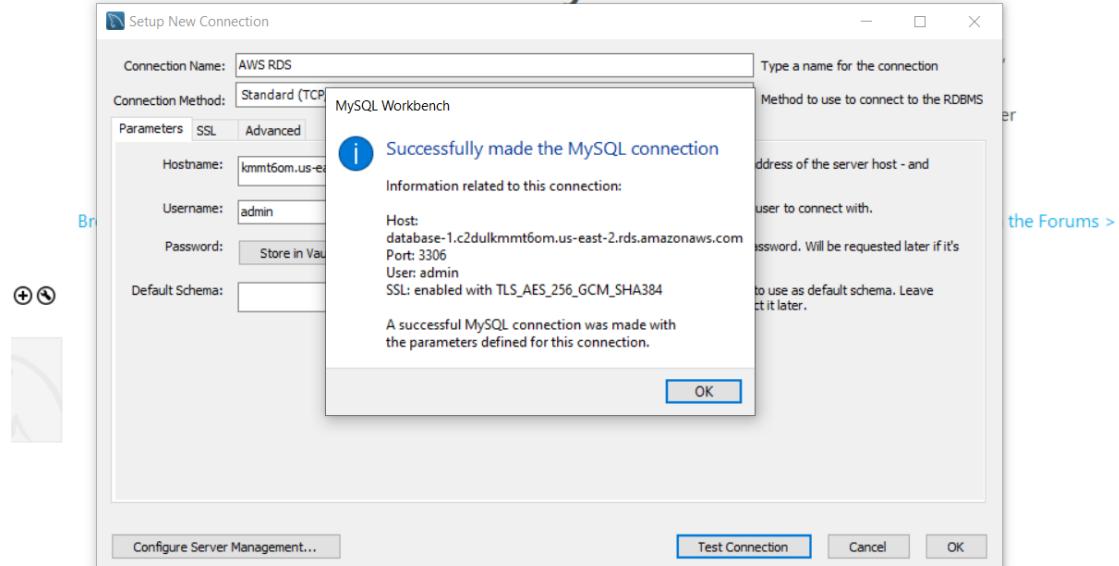
Welcome to MySQL Workbench



Click Ok.

Leave the Default Schema as it is and click on “Test Connection”.

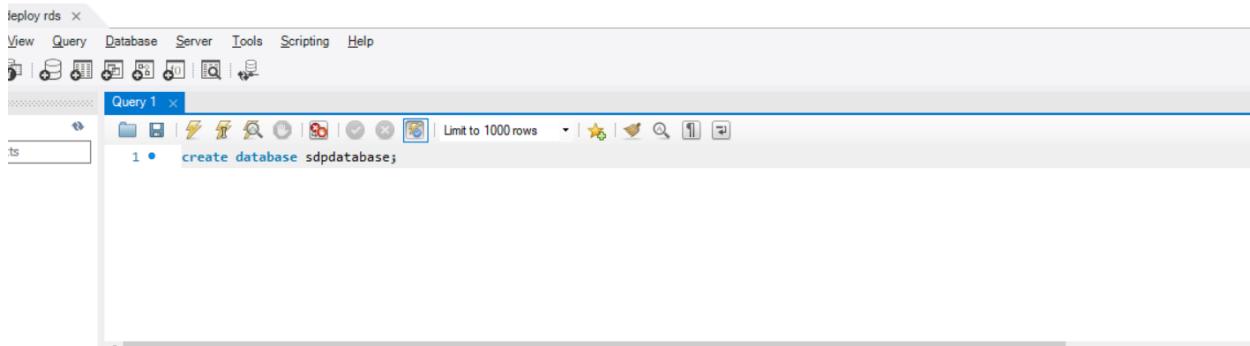
Welcome to MySQL Workbench



Click Ok and then OK again.

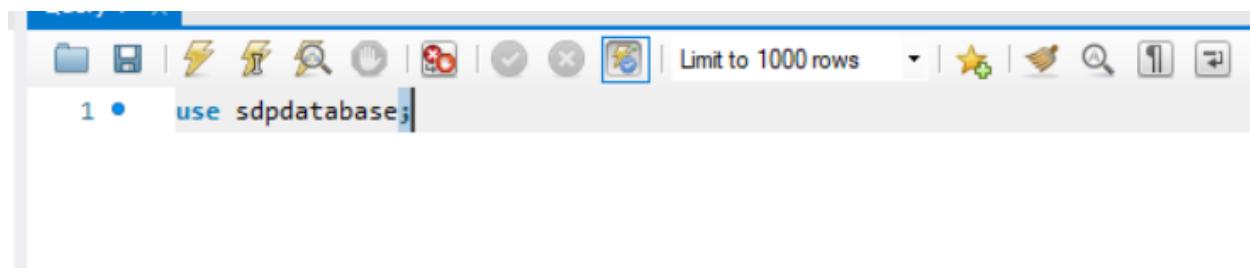
Now, select the database by double clicking on it





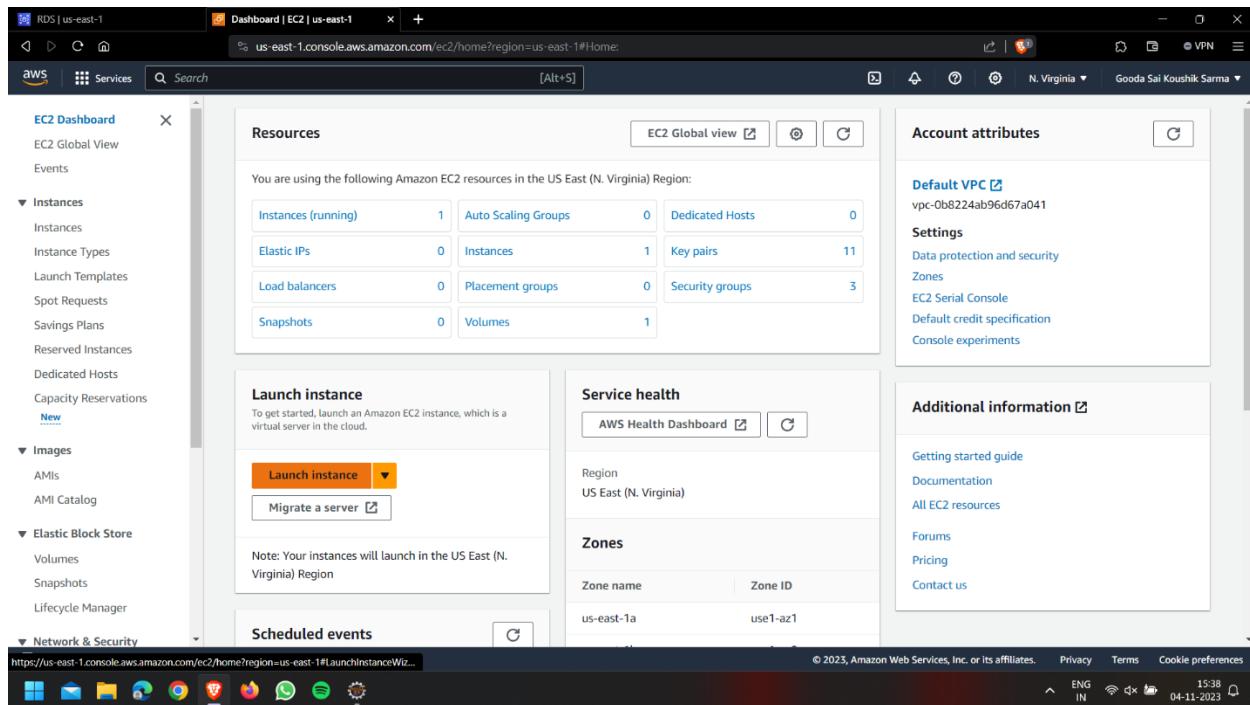
Query 1

```
1 • create database sdpdatabase;
```



1 • use sdpdatabase;

Go to AWS Management Console and Open EC2 and Click Launch Instance.



EC2 Dashboard

Instances

Launch instance

Service health

Additional information

Account attributes

Default VPC: vpc-0b8224ab96d67a041

Regions: US East (N. Virginia)

Instances (running): 1

Auto Scaling Groups: 0

Dedicated Hosts: 0

Elastic IPs: 0

Instances: 1

Key pairs: 11

Load balancers: 0

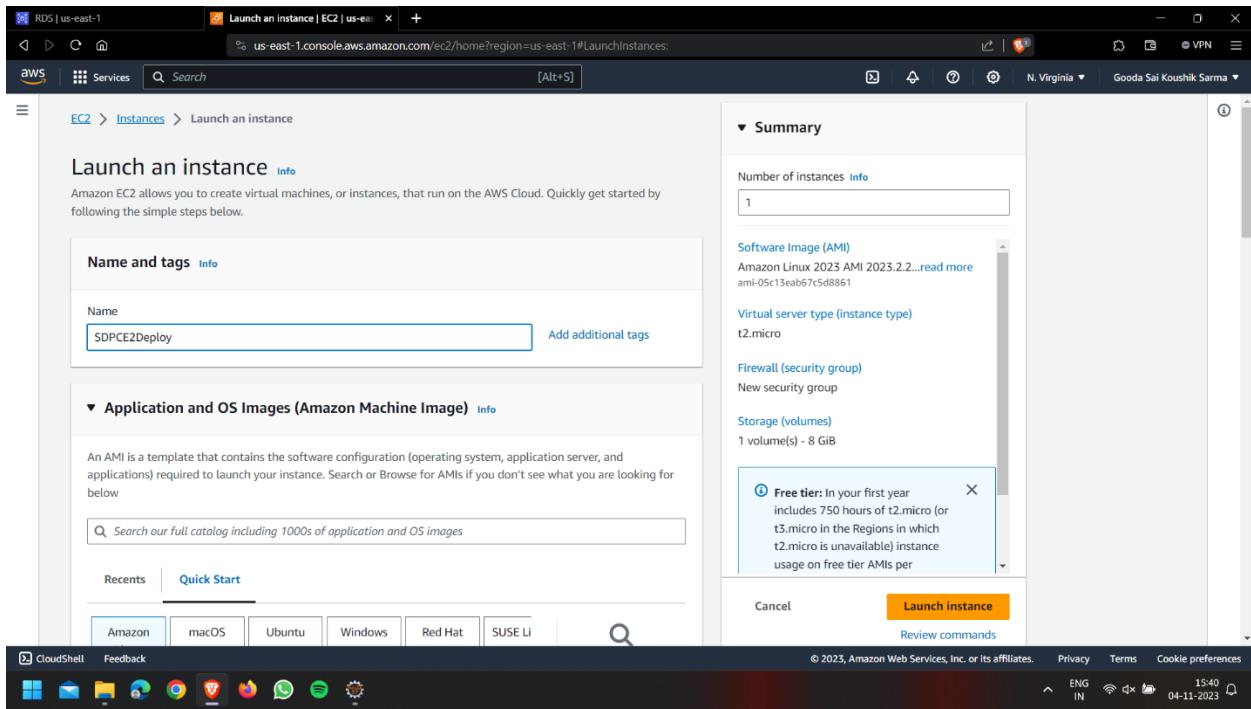
Placement groups: 0

Security groups: 3

Snapshots: 0

Volumes: 1

Create an EC2 Instance with specified Options as below.



The screenshot shows the 'Launch an instance' wizard in the AWS Management Console. The configuration steps are as follows:

- Name and tags:** The instance is named "SDPCE2Deploy".
- Software Image (AMI):** Amazon Linux 2023 AMI 2023.2.2... (ami-05c13eab67c5d08861)
- Virtual server type (instance type):** t2.micro
- Firewall (security group):** New security group
- Storage (volumes):** 1 volume(s) - 8 GiB

A tooltip for the "Free tier" is displayed, stating: "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." The "Launch instance" button is highlighted in orange.

Screenshot of the AWS Cloud Console showing the search results for AMIs. The search bar at the top contains the text "Search for an AMI by entering a search term e.g. "Windows"".

The results are filtered by "Quickstart AMIs (47)" and show the following details:

- Amazon Linux 2023 AMI**: ami-05c13eab67c5d8861 (64-bit (x86)) / ami-0840bececc4971bb87 (64-bit (Arm))
 - Platform: amazon
 - Root device type: ebs
 - Virtualization: hvm
 - ENAs enabled: Yes
- Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type**: ami-0e8a34246278c21e4 (64-bit (x86)) / ami-06b67199d57b1bf17 (64-bit (Arm))
 - Platform: amazon
 - Root device type: ebs
 - Virtualization: hvm
 - ENAs enabled: Yes

Below the search results, the "Launch an instance" wizard is shown for a "macOS Sonoma" AMI. The instance configuration includes:

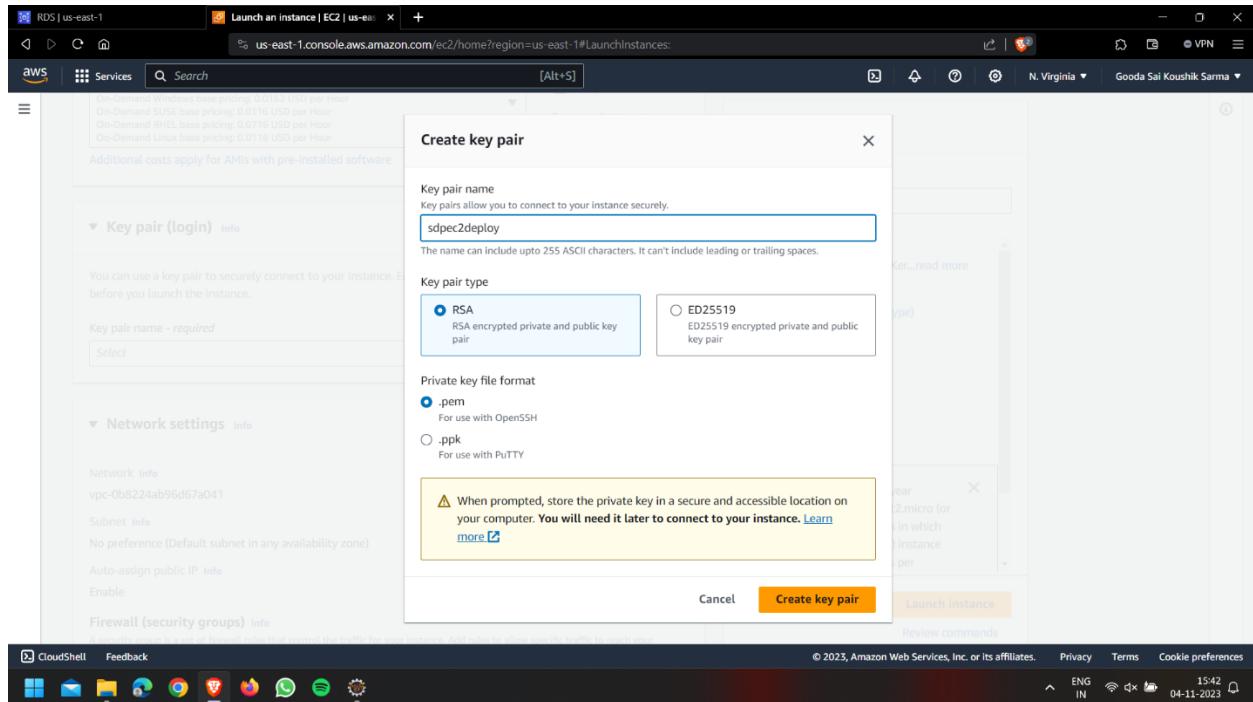
- AMI from catalog**: amzn2-ami-kernel-5.10-hvm-2.0.20231101.0
 - Published: 2023-11-01T21:53:08.00Z
 - Architecture: x86_64
 - Virtualization: hvm
 - Root device type: ebs
 - ENAs enabled: Yes
- Instance type**: t2.micro
 - Processor: 1 vCPU
 - Memory: 1 GiB
 - Current generation: true
 - Free tier eligible

The "Launch instance" button is highlighted in orange.

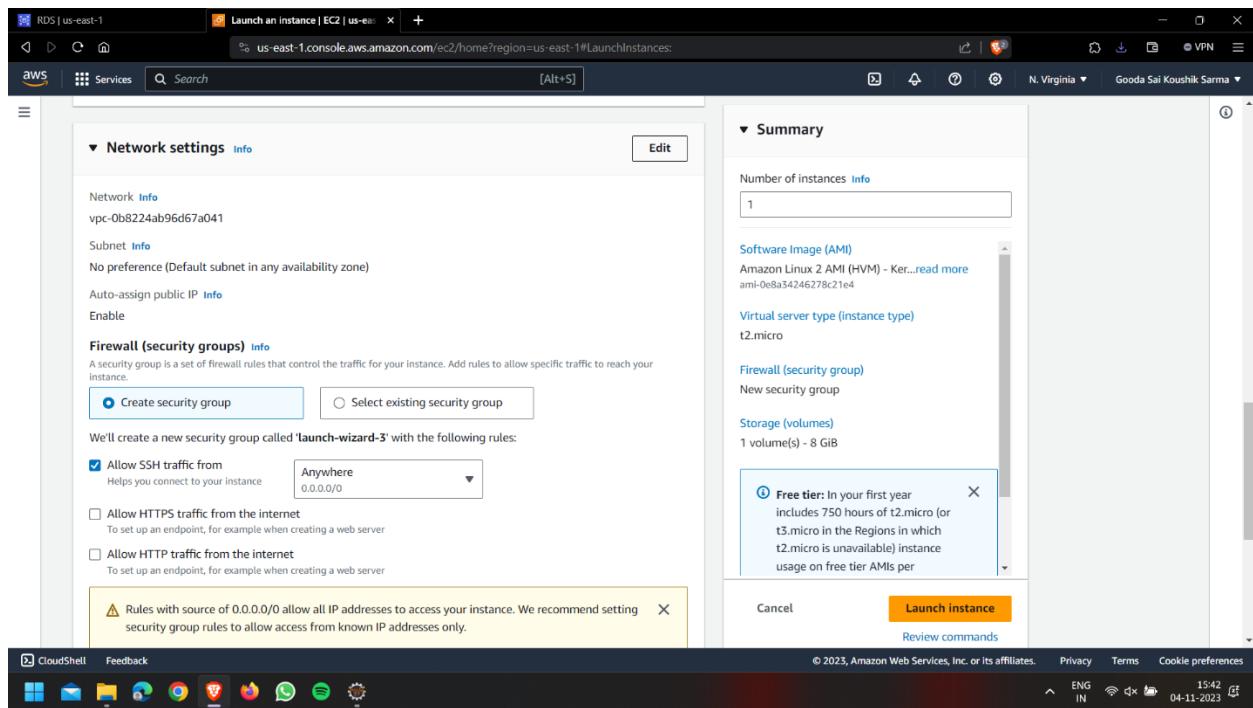
Screenshot of the AWS EC2 Launch Instances page. The 'Instance type' dropdown is open, showing 't2.nano' selected. The 'Summary' section shows 1 instance, using the Amazon Linux 2 AMI (HVM) and t2.micro as the virtual server type. A tooltip for 'Free tier' indicates it includes 750 hours of t2.micro or t3.micro usage. The 'Launch instance' button is highlighted.

Screenshot of the AWS EC2 Launch Instances page. The 'Create key pair' dialog is open. It shows the 'Key pair name' field with 'Enter key pair name' and a note about character limits. The 'Key pair type' section has 'RSA' selected. The 'Private key file format' section has '.pem' selected. A note at the bottom of the dialog says: 'When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance.' The 'Create key pair' button is highlighted.

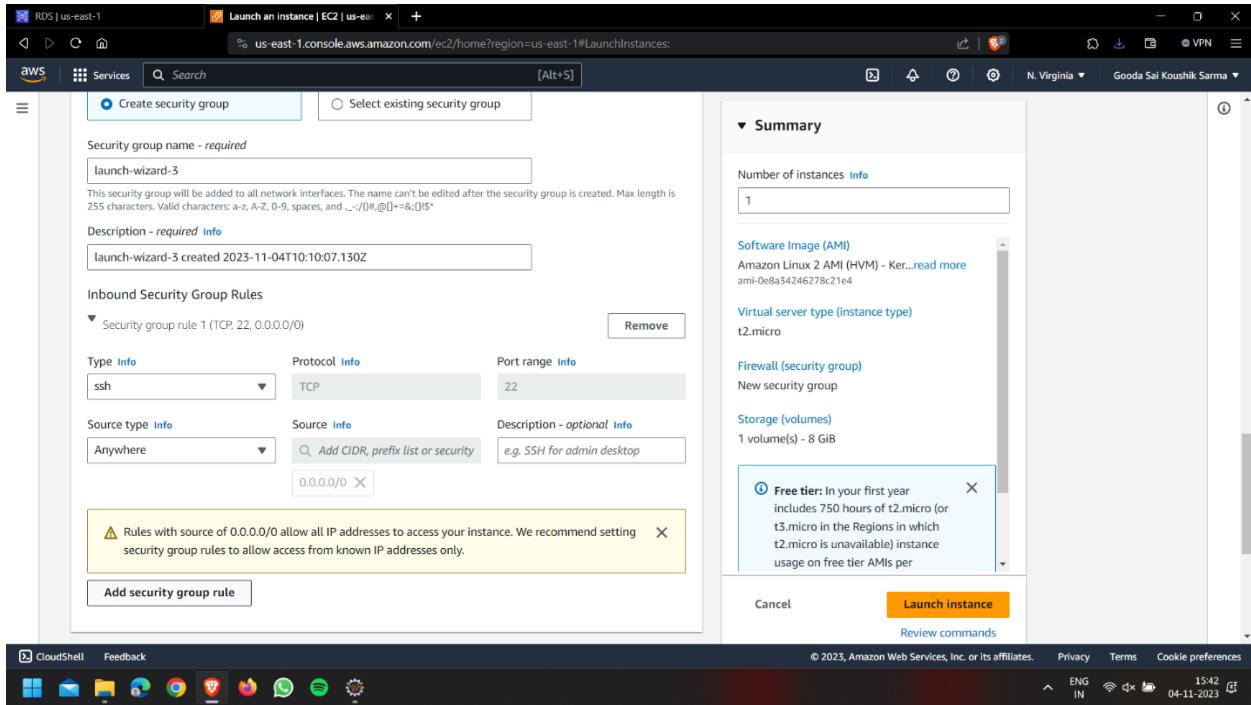
Screenshot of the AWS CloudShell interface showing the creation of a key pair. The 'Create key pair' dialog is open, prompting for a key pair name ('sdpec2deploy') and key pair type ('RSA'). A note indicates that the private key should be stored securely. The 'Create key pair' button is highlighted.



Screenshot of the AWS CloudShell interface showing the configuration of a new EC2 instance. The 'Network settings' section is selected, showing a network (vpc-0b8224ab96d67a041) and subnet (No preference). The 'Firewall (security groups)' section is expanded, showing a new security group named 'launch-wizard-3' with an 'Allow SSH traffic from Anywhere' rule. A note about the free tier is visible. The 'Launch instance' button is highlighted.



Click on **Edit** and select **Add Rule**.



Type: Custom TCP Rule

Protocol: TCP

Port Range: 8080

Source: Anywhere

RDS | us-east-1 | Launch an instance | EC2 | us-east-1 | + | us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances: N. Virginia Gooda Sai Koushik Sarma

Description - required Info

launch-wizard-3 created 2023-11-04T10:10:07.130Z

Inbound Security Group Rules

Security group rule 1 (TCP, 22, 0.0.0.0/0)

Type Info Protocol Info Port range Info

ssh TCP 22

Source type Info Source Info Description - optional Info

Anywhere 0.0.0.0/0

Security group rule 2 (TCP, 8080, 0.0.0.0/0)

Type Info Protocol Info Port range Info

Custom TCP TCP 8080

Source type Info Source Info Description - optional Info

Anywhere 0.0.0.0/0

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 AMI (HVM) - Ker... [read more](#)

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

Cancel Launch instance Review commands

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RDS | us-east-1 | Launch an instance | EC2 | us-east-1 | + | us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances: N. Virginia Gooda Sai Koushik Sarma

Anywhere 0.0.0.0/0

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Add security group rule

Configure storage Advanced

1x 8 GiB gp2 Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

0 x File systems Edit

Advanced details Info

Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 AMI (HVM) - Ker... [read more](#)

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

Cancel Launch instance Review commands

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Launch your Instance.

RDS | us-east-1 Launch an instance | EC2 | us-east-1 + us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances: N. Virginia Gooda Sai Koushik Sarma

aws Services Search [Alt+S]

EC2 > Instances > Launch an instance

Success
Successfully initiated launch of instance (i-06d5b6012cfaca18b)

▶ Launch log

Next Steps

Q What would you like to do next with this instance, for example "create alarm" or "create backup" < 1 2 3 4 5 6 >

Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
Create billing alerts

Connect to your instance
Once your instance is running, log into it from your local computer.
Connect to instance
Learn more

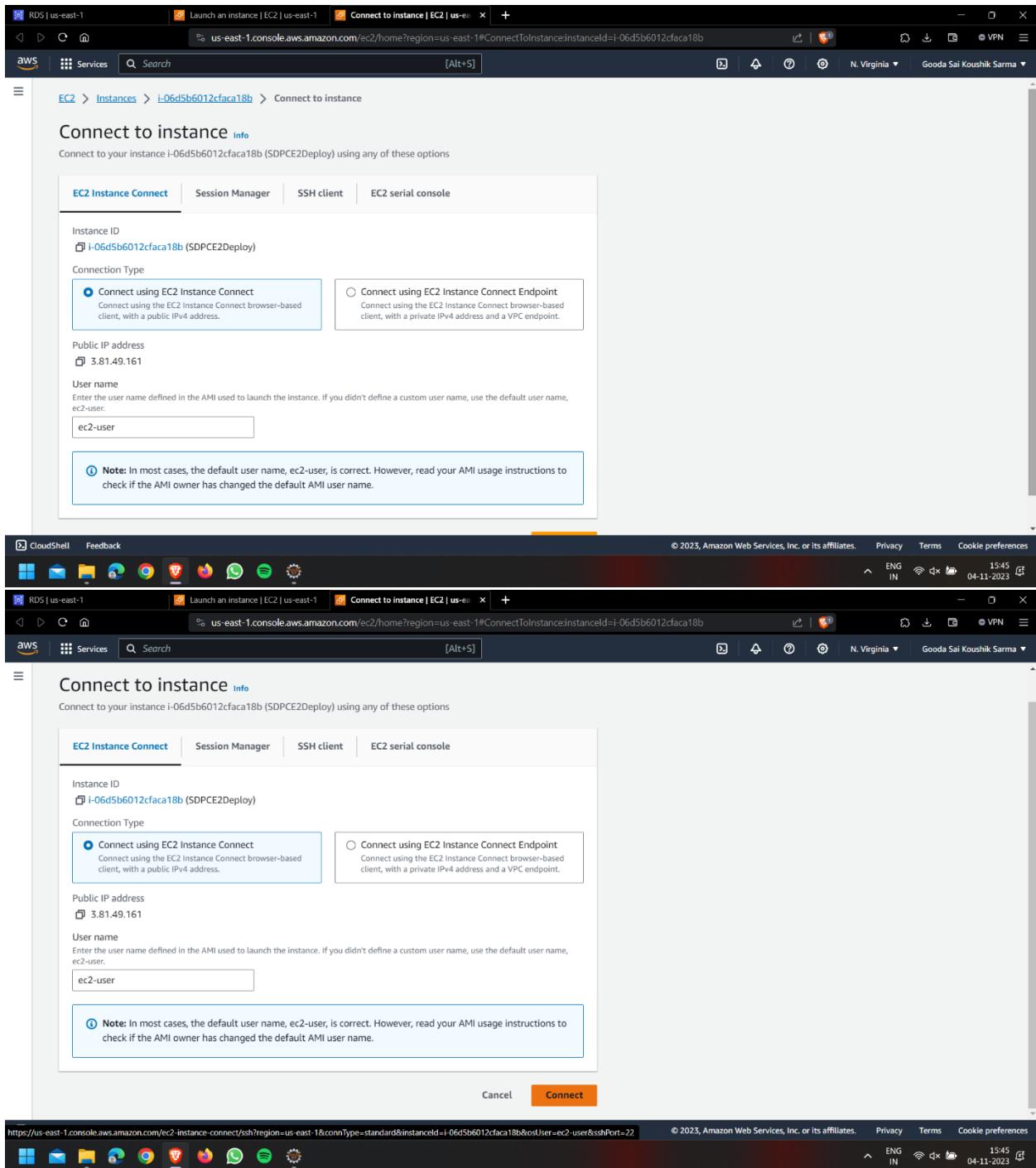
Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
Connect an RDS database
Create a new RDS database
Learn more

Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots
Create EBS snapshot policy

Manage detailed monitoring Create Load Balancer Create AWS budget Manage CloudWatch alarms

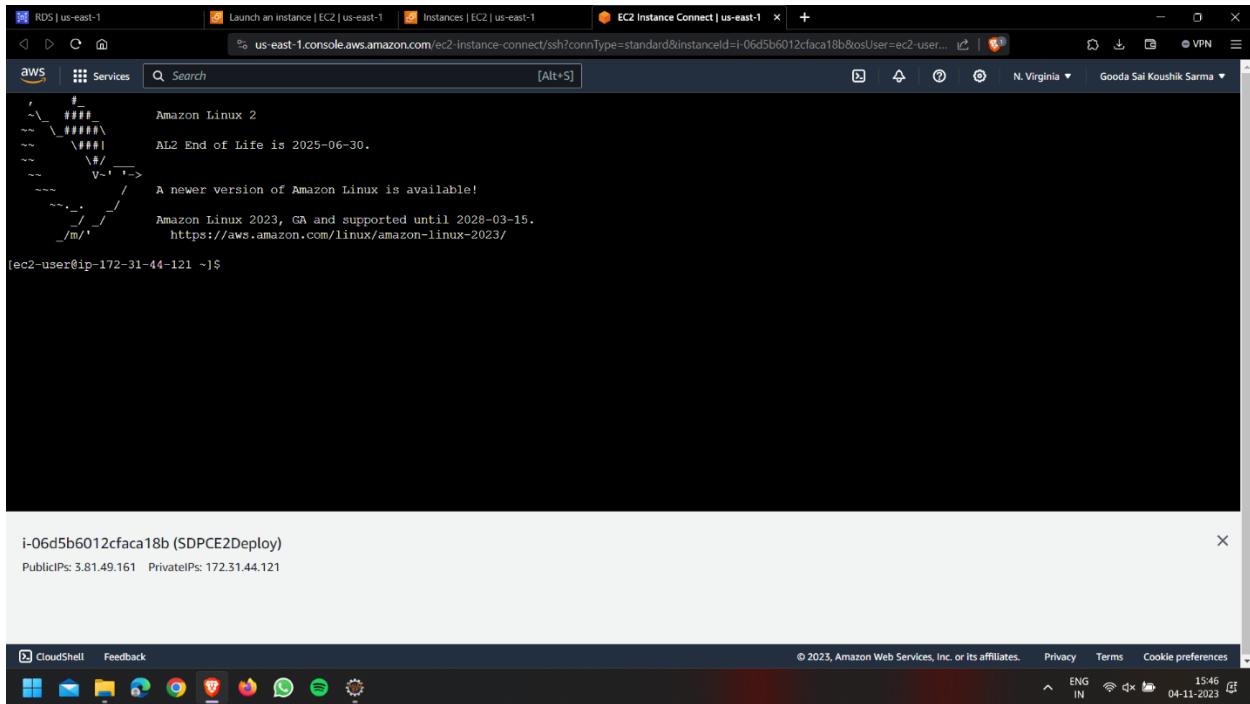
CloudShell Feedback © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 15:44 04-11-2023

Click on Connect to Instance.

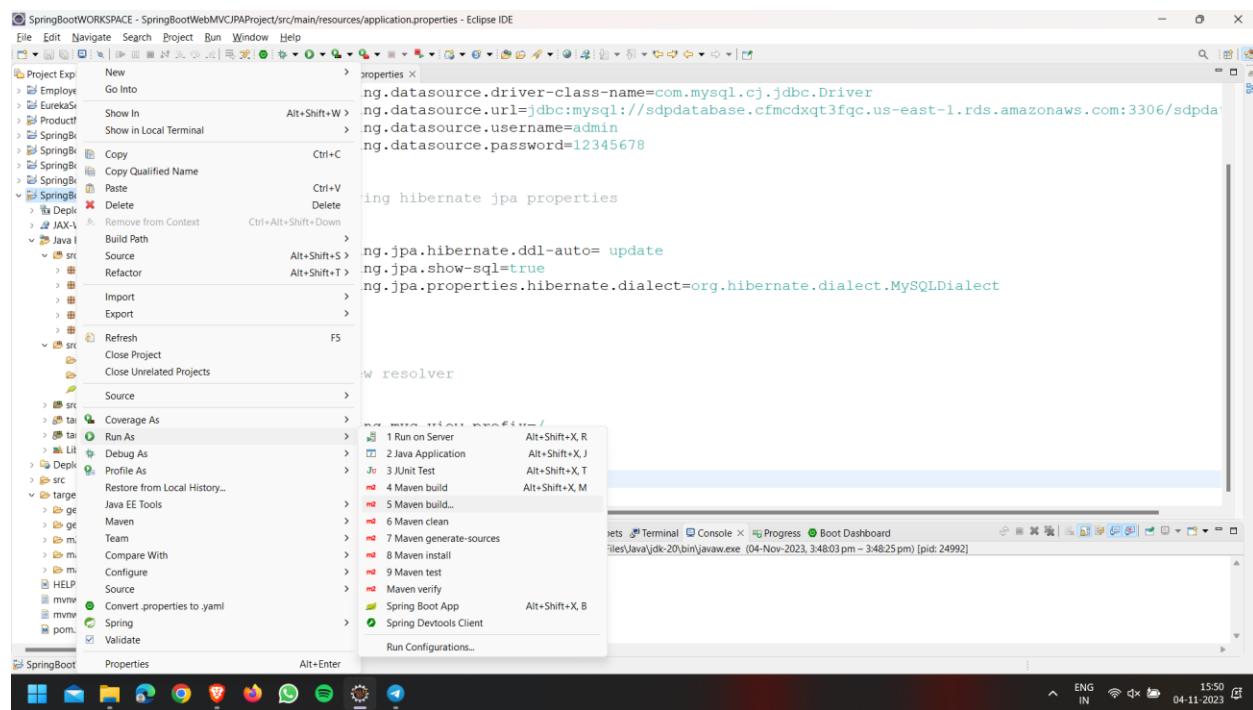


The screenshot shows the AWS CloudShell interface with the following details:

- Header:** RDS | us-east-1, Launch an instance | EC2 | us-east-1, Connect to instance | EC2 | us-east-1, us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstanceinstancetype=i-06d5b6012cfaca18b, AWS Services, Search, [Alt+S], N. Virginia, Gooda Sai Koushik Sarma.
- Breadcrumbs:** EC2 > Instances > i-06d5b6012cfaca18b > Connect to instance
- Section:** Connect to instance Info
- Text:** Connect to your instance i-06d5b6012cfaca18b (SDPCE2Deploy) using any of these options
- Buttons:** EC2 Instance Connect (selected), Session Manager, SSH client, EC2 serial console
- Instance ID:** i-06d5b6012cfaca18b (SDPCE2Deploy)
- Connection Type:**
 - Connect using EC2 Instance Connect: Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.
 - Connect using EC2 Instance Connect Endpoint: Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.
- Public IP address:** 3.81.49.161
- User name:** ec2-user
- Note:** In most cases, the default user name, ec2-user, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.
- Buttons at the bottom:** Cancel, Connect
- Page footer:** © 2023, Amazon Web Services, Inc. or its affiliates. Privacy, Terms, Cookie preferences, ENG IN 15:45 04-11-2023

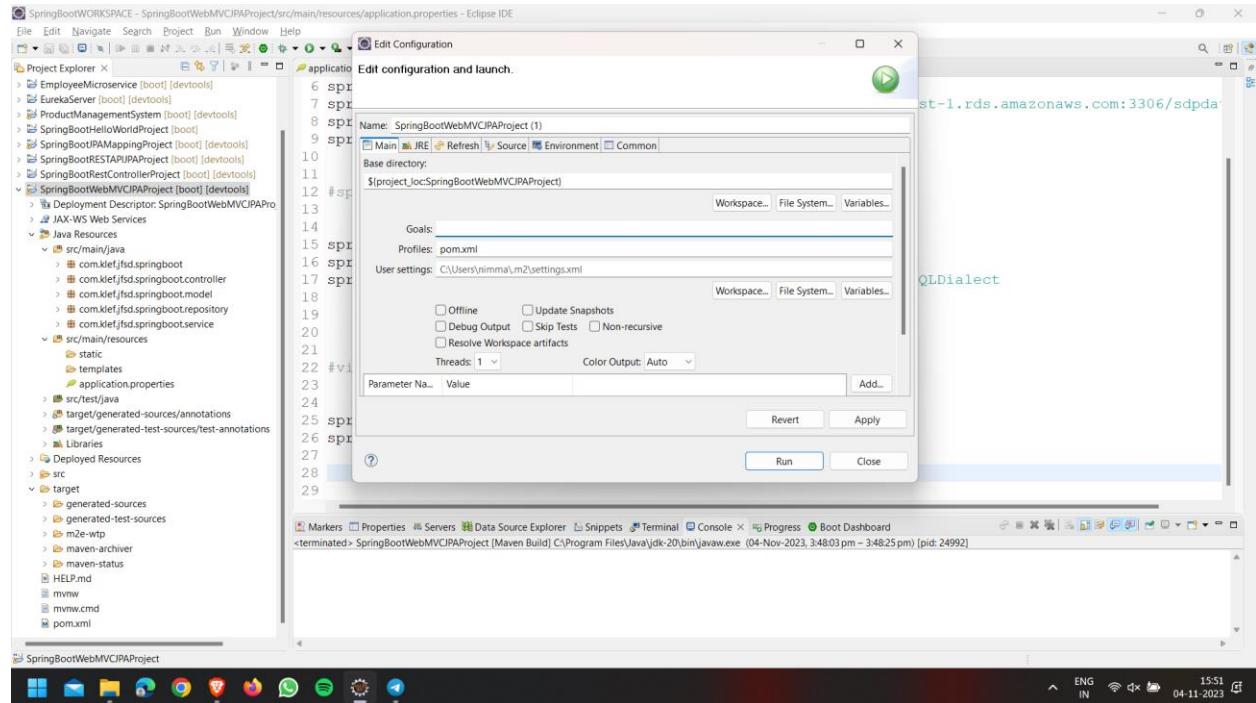


Now go to Eclipse IDE and Right-Click on your Monolithic Project and Select “Run As” and Choose “Maven Build...”

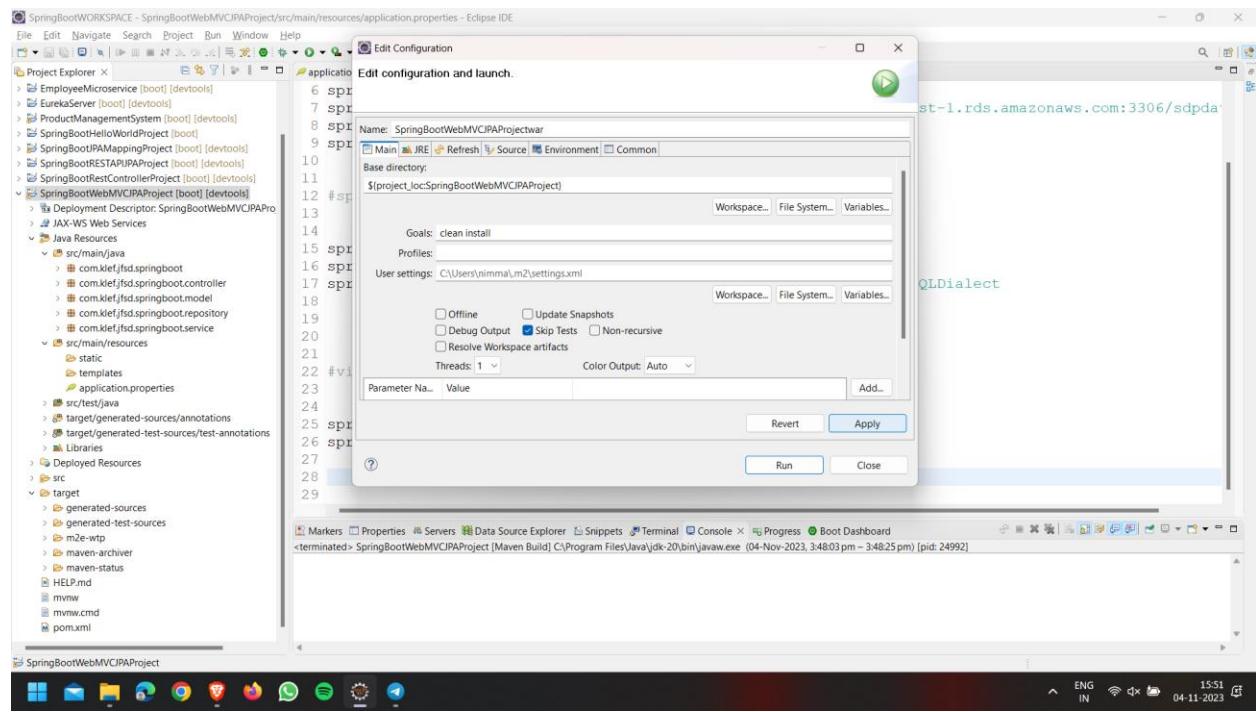


Give a Name as you wish and set goals as “clean install” and remove pom.xml from profiles.

Check Skip Tests option.

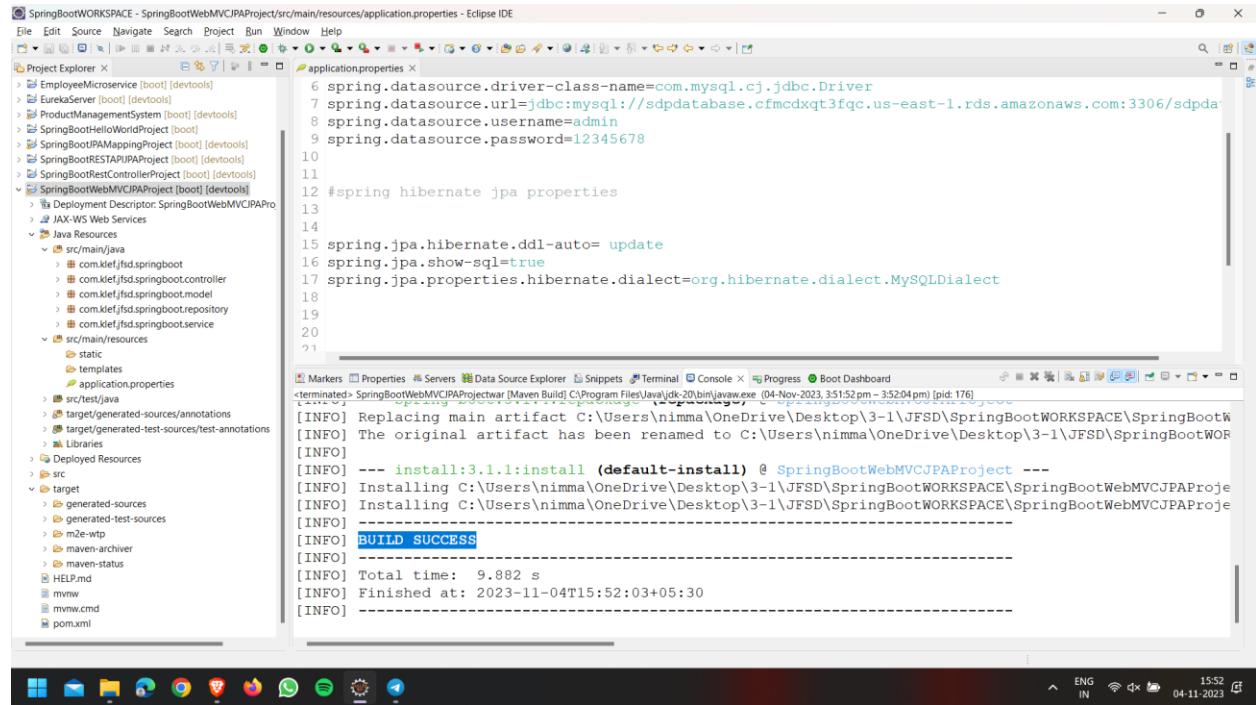


Click on **Apply** and then Click on **Run**.



Surjan

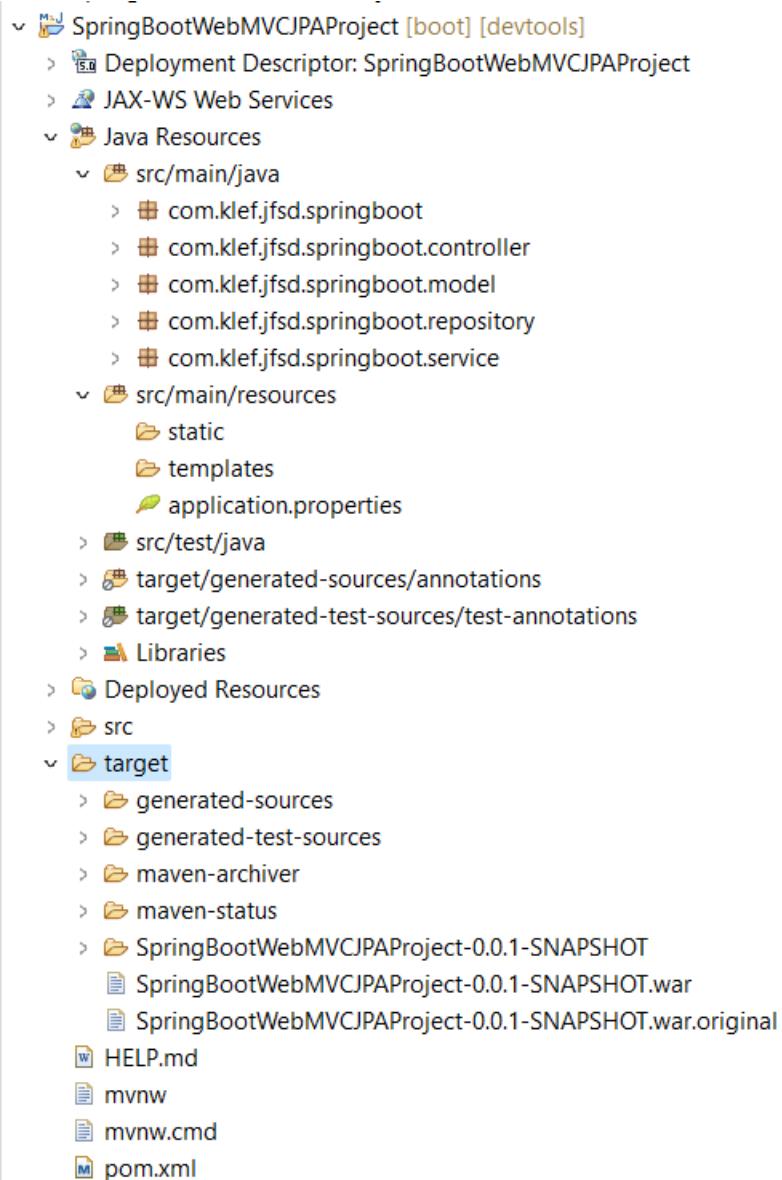
You will see “**BUILD SUCCESS**” in the Console.



The screenshot shows the Eclipse IDE interface with the following details:

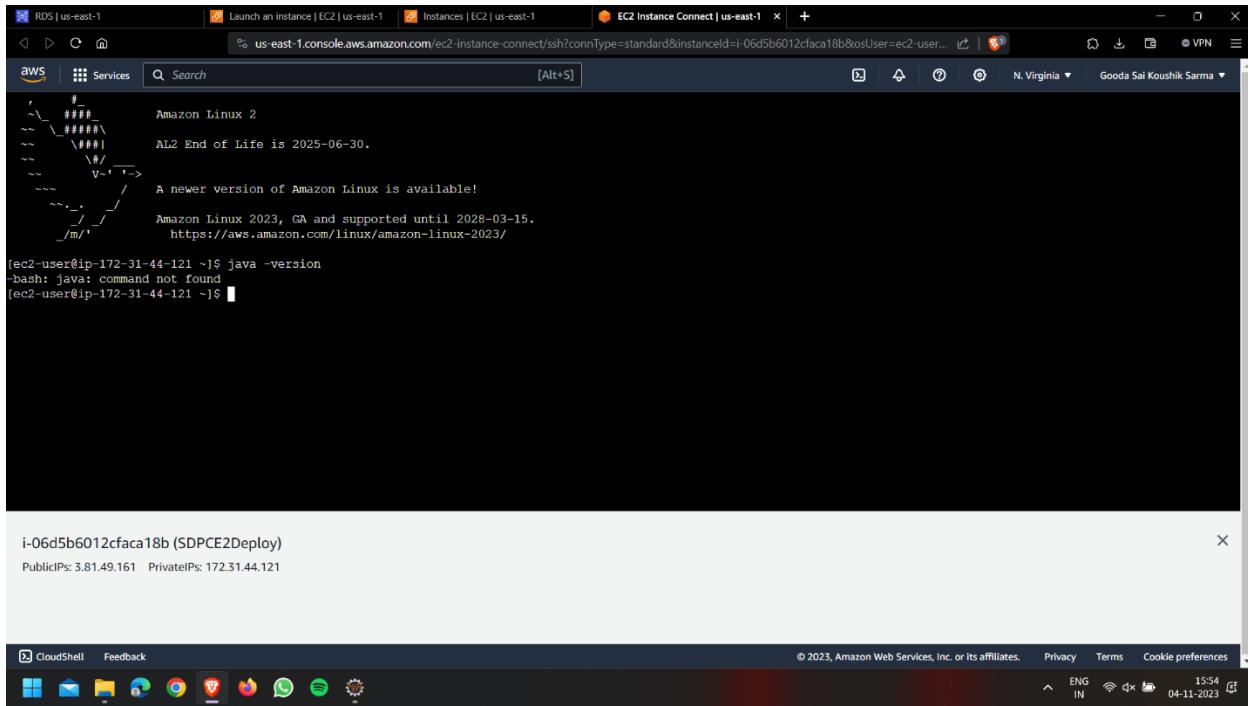
- Project Explorer:** Shows multiple Spring Boot projects: EmployeeMicroservice, EurekaServer, ProductManagementSystem, SpringBootHelloWorldProject, SpringBootJPAMappingProject, SpringBootRESTAPIProject, and the current project, SpringBootWebMVCJPAProject.
- application.properties:** The content of the application.properties file is displayed, including database configuration (MySQL) and JPA properties.
- Console:** The terminal window shows the Maven build process:
 - Replacing main artifact C:\Users\nimma\OneDrive\Desktop\3-1\JFSD\SpringBootWORKSPACE\SpringBootW...
 - The original artifact has been renamed to C:\Users\nimma\OneDrive\Desktop\3-1\JFSD\SpringBootW...
 - install:3.1.1:install (**default-install**) @ SpringBootWebMVCJPAProject ---
 - Installing C:\Users\nimma\OneDrive\Desktop\3-1\JFSD\SpringBootWORKSPACE\SpringBootWebMVCJPAProje...
 - Installing C:\Users\nimma\OneDrive\Desktop\3-1\JFSD\SpringBootWORKSPACE\SpringBootWebMVCJPAProje...
 -
 - BUILD SUCCESS**
 -
 - Total time: 9.882 s
 - Finished at: 2023-11-04T15:52:03+05:30
- System Tray:** Shows standard icons for battery, signal, and date/time (04-11-2023).

You will see your **war files** under **target** folder.



Type the Following Commands:

→ **java -version**

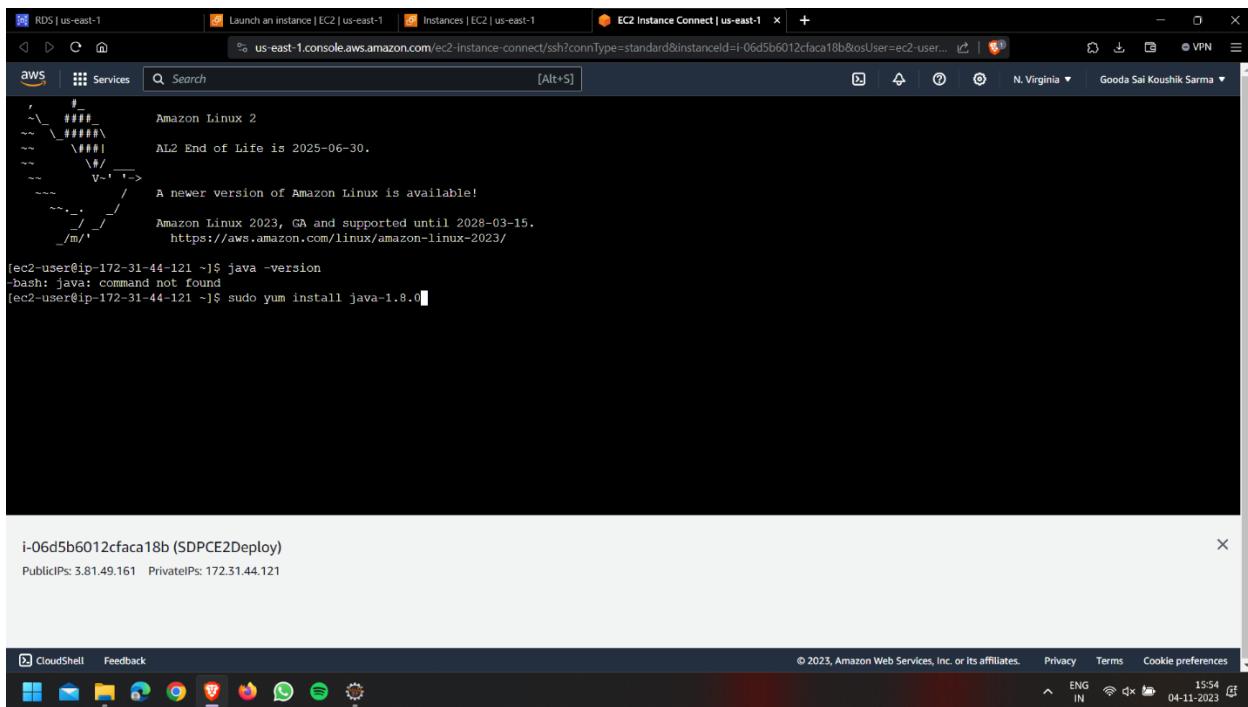


```
Amazon Linux 2
AL2 End of Life is 2025-06-30.
A newer version of Amazon Linux is available!
Amazon Linux 2023, GA and supported until 2028-03-15.
https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-172-31-44-121 ~]$ java -version
-bash: java: command not found
[ec2-user@ip-172-31-44-121 ~]$
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
Public IPs: 3.81.49.161 Private IPs: 172.31.44.121

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→ **sudo yum install java-1.8.0**



```
Amazon Linux 2
AL2 End of Life is 2025-06-30.
A newer version of Amazon Linux is available!
Amazon Linux 2023, GA and supported until 2028-03-15.
https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-172-31-44-121 ~]$ java -version
-bash: java: command not found
[ec2-user@ip-172-31-44-121 ~]$ sudo yum install java-1.8.0
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
Public IPs: 3.81.49.161 Private IPs: 172.31.44.121

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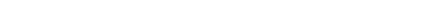
→ click y and click Enter.

Services	Search	[Alt+S]	N. Virginia	Gooda Sai Koushik Sarma
libwayland-client	x86_64	1.17.0-1.amzn2.0.1	amzn2-core	34 k
libwayland-server	x86_64	1.17.0-1.amzn2.0.1	amzn2-core	41 k
libxcb	x86_64	1.12-1.amzn2.0.2	amzn2-core	216 k
libxshmfence	x86_64	1.2-1.amzn2.0.2	amzn2-core	7.2 k
libxslt	x86_64	1.1.20-6.amzn2	amzn2-core	240 k
lksctp-tools	x86_64	1.0.17-2.amzn2.0.2	amzn2-core	88 k
log4j-cve-2021-44228-hotpatch	noarch	1.3-7.amzn2	amzn2-core	139 k
mesa-libEGL	x86_64	18.3.4-5.amzn2.0.1	amzn2-core	108 k
mesa-libGL	x86_64	18.3.4-5.amzn2.0.1	amzn2-core	162 k
mesa-libgbm	x86_64	18.3.4-5.amzn2.0.1	amzn2-core	38 k
mesa-libglapi	x86_64	18.3.4-5.amzn2.0.1	amzn2-core	45 k
pango	x86_64	1.42.4-4.amzn2	amzn2-core	280 k
pcsc-lite-libs	x86_64	1.8.6-7.amzn2	amzn2-core	35 k
pixman	x86_64	0.34.0-1.amzn2.0.2	amzn2-core	254 k
python-javapackages	noarch	3.4.1-11.amzn2	amzn2-core	31 k
python-xml	x86_64	3.2.1-4.amzn2.0.4	amzn2-core	1.0 M
ttmfdiir	x86_64	3.0.9-42.amzn2.0.2	amzn2-core	50 k
tzdata-java	noarch	2023c-1.amzn2.0.1	amzn2-core	185 k
xorg-x11-font-utils	x86_64	1:7.5-21.amzn2	amzn2-core	103 k
xorg-x11-fonts-type1	noarch	7.5-9.amzn2	amzn2-core	521 k

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

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ENG IN 15:55 04-11-2023

```
RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1 + us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012fcfa18b&osUser=ec2-user... 🔍 🌐 VPN
AWS Services Search [Alt+S]
N. Virginia Gooda Sai Koushik Sharma
Installed:
  java-1.8.0-openjdk.x86_64 1:1.8.0.382.b05-1.amzn2.0.2
Dependency Installed:
  alsa-lib.x86_64 0:1.1.4.1-2.amzn2
  cairo.x86_64 0:1.15.12-4.amzn2
  dejavu-fonts-common.noarch 0:2.33-6.amzn2
  fontpackages-filesystem.noarch 0:1.44-8.amzn2
  giflib.x86_64 0:4.1.6-9.amzn2.0.2
  gtk2.x86_64 0:2.24.31-1.amzn2.0.2
  jasper-libs.x86_64 0:1.900.1-33.amzn2.0.1
  libICE.x86_64 0:1.0.9-9.amzn2.0.2
  libX11-common.noarch 0:1.6.7-3.amzn2.0.4
  libXcursor.x86_64 0:1.1.1-1.amzn2
  libXfixes.x86_64 0:5.0.3-1.amzn2.0.2
  libXinerama.x86_64 0:1.1.3-2.1.amzn2.0.2
  libXtst.x86_64 0:1.2.3-1.amzn2.0.2
  libXvRand.x86_64 1:0.1.1-1.amzn2.0.1
  libXvRand.x86_64 1:1.0.1-0.1.0.1-git5bae5.amzn2.0.1
  libthai.x86_64 0:1.1.4-9.amzn2.0.2
  libxcb.x86_64 0:1.12-1.amzn2.0.2
  klcstcp-tools.x86_64 0:1.0.17-2.amzn2.0.2
  mesa-libGL.x86_64 0:18.3.4-5.amzn2.0.1
  pango.x86_64 0:1.42.4-4.amzn2
  python-javapackages.noarch 0:3.4.1-11.amzn2
  tzdata-java.noarch 0:2023c-1.amzn2.0.1
atk.x86_64 0:2.22.0-3.amzn2.0.2
copy-jdk-configs.noarch 0:3-10.amzn2
dejavu-sans-fonts.noarch 0:2.33-6.amzn2
fribidi.x86_64 0:1.0.2-1.amzn2.1.2
graphite2.x86_64 0:1.3.10-1.amzn2.0.2
harfbuzz.x86_64 0:1.7.5-2.amzn2
java-1.8.0-openjdk-headless.x86_64 1:1.8.0.382.b05-1.amzn2.0.2
libSM.x86_64 0:1.2.2-2.amzn2.0.2
libXau.x86_64 0:1.0.8-2.1.amzn2.0.2
libXdamage.x86_64 0:1.1.4-4.1.amzn2.0.2
libXft.x86_64 0:2.3.2-2.amzn2.0.2
libXrandr.x86_64 0:1.5.1-2.amzn2.0.3
libXxf86vm.x86_64 0:1.1.4-1.amzn2.0.2
libgbvlnqd-egl.x86_64 1:1.0.1-0.1.git5bae5.amzn2.0.1
libwayland-client.x86_64 0:1.17.0-1.amzn2.0.1
libxshmfence.x86_64 0:1.2-1.amzn2.0.2
log4j-cve-2021-44228-hotpatch.noarch 0:1.3-7.amzn2
mesa-libgbm.x86_64 0:18.3.4-5.amzn2.0.1
pcsc-lite-lib.x86_64 0:1.8-7.amzn2
python-lxml.x86_64 0:3.2.1-4.amzn2.0.4
xorg-x11-font-utils.x86_64 1:17.5-21.amzn2
avahi-libs.x86_64 0:0.6.31-20.amzn2.0.2
cups-libs.x86_64 1:1.6.3-51.amzn2.0.4
fontconfig.x86_64 0:2.13.0-4.3.amzn2
gd沽pixbuf2.x86_64 0:2.36.12-3.amzn2
gtk-update-icon-cache.x86_64 0:3.22.30-3.amzn2
hicolor-icon-theme.noarch 0:0.12-7.amzn2
javapackages-tools.noarch 0:3.4.1-11.amzn2
libX11.x86_64 0:1.6.7-3.amzn2.0.4
libXcomposite.x86_64 0:0.4-4.4-1.amzn2.0.2
libXext.x86_64 0:1.3.3-3.amzn2.0.2
libXi.x86_64 0:1.7.9-1.amzn2.0.2
libXrender.x86_64 0:0.9.10-1.amzn2.0.2
libfontenc.x86_64 0:1.1.3-3.amzn2.0.2
libgbvlnqd-glx.x86_64 1:1.0.1-0.1.git5bae5.amzn2.0.1
libwayland-server.x86_64 0:1.17-1.amzn2.0.1
libxkbutil.x86_64 0:1.28-6.amzn2
mesa-libEGL.x86_64 0:18.3.4-5.amzn2.0.1
mesa-libGLapi.x86_64 0:18.3.4-5.amzn2.0.1
pixman.x86_64 0:0.34.0-1.amzn2.0.2
tcmkfdir.x86_64 0:1.0.9-42.amzn2.0.2
xorg-x11-fonts-Type1.noarch 0:7.5-9.amzn2
Complete!
[ec2-user@ip-172-31-44-121 ~]$
```

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→ java -version

```
alsa-lib.x86_64 0:1.1.4.1-2.amzn2
cairo.x86_64 0:1.15.12-4.amzn2
 dejavu-fon...-common.noarch 0:2.33-6.amzn2
 fontpac...-filesystem.noarch 0:1.44-8.amzn2
 giflib.x86_64 0:4.1.6-9.amzn2.0.2
 glib2.x86_64 0:2.24.31.1.amzn2.0.2
 jasper-l...-x86_64 0:1.900.1-33.amzn2.0.1
 libICE.x86_64 0:1.0.1-0.1.git5baa1e5.amzn2.0.1
 libX11-...-common.noarch 0:1.6.7-3.amzn2.0.4
 libXcursor.x86_64 0:1.1.15-1.amzn2
 libXfixes.x86_64 0:5.0.3-1.amzn2.0.2
 libXinerama.x86_64 0:1.1.3-2.1.amzn2.0.2
 libXtst.x86_64 0:1.2.3-1.amzn2.0.2
 libglvnd.x86_64 0:1.0.1-0.1.git5baa1e5.amzn2.0.1
 libthai.x86_64 0:0.1.14-9.amzn2.0.2
 libxcb.x86_64 0:1.12-1.amzn2.0.2
 lksctp-tools.x86_64 0:1.0.17-2.amzn2.0.2
 mesa-libGL.x86_64 0:18.3.4-5.amzn2.0.1
 pango.x86_64 0:1.42.4-4.amzn2
 python-javapackages.noarch 0:3.4.1-11.amzn2
 tzdata-java.noarch 0:2023c-1.amzn2.0.1

Complete!
[ec2-user@ip-172-31-44-121 ~]$ java -version
openjdk version "1.8.0_302"
OpenJDK Runtime Environment (build 1.8.0_302-b05)
OpenJDK 64-Bit Server VM (build 25.302-b05, mixed mode)
[ec2-user@ip-172-31-44-121 ~]$
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

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You will see the version as 1.8 but we have used java version 17. So use this command to install java version 17.

→ sudo yum install java-17-amazon-corretto

```
alsa-lib.x86_64 0:1.1.4.1-2.amzn2
cairo.x86_64 0:1.15.12-4.amzn2
 dejavu-fon...-common.noarch 0:2.33-6.amzn2
 fontpac...-filesystem.noarch 0:1.44-8.amzn2
 giflib.x86_64 0:4.1.6-9.amzn2.0.2
 glib2.x86_64 0:2.24.31.1.amzn2.0.2
 jasper-l...-x86_64 0:1.900.1-33.amzn2.0.1
 libICE.x86_64 0:1.0.1-0.1.git5baa1e5.amzn2.0.1
 libX11-...-common.noarch 0:1.6.7-3.amzn2.0.4
 libXcursor.x86_64 0:1.1.15-1.amzn2
 libXfixes.x86_64 0:5.0.3-1.amzn2.0.2
 libXinerama.x86_64 0:1.1.3-2.1.amzn2.0.2
 libXtst.x86_64 0:1.2.3-1.amzn2.0.2
 libglvnd.x86_64 0:1.0.1-0.1.git5baa1e5.amzn2.0.1
 libthai.x86_64 0:0.1.14-9.amzn2.0.2
 libxcb.x86_64 0:1.12-1.amzn2.0.2
 lksctp-tools.x86_64 0:1.0.17-2.amzn2.0.2
 mesa-libGL.x86_64 0:18.3.4-5.amzn2.0.1
 pango.x86_64 0:1.42.4-4.amzn2
 python-javapackages.noarch 0:3.4.1-11.amzn2
 tzdata-java.noarch 0:2023c-1.amzn2.0.1

Complete!
[ec2-user@ip-172-31-44-121 ~]$ sudo yum install java-17-amazon-corretto
i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121
```

CloudShell Feedback © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 15:56 04-11-2023

Click y and then Enter.

```
RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user...
N. Virginia Gooda Sai Koushik Sarma
aws Services Search [Alt+S]
--> Processing Dependency: dejavu-serif-fonts for package: 1:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64
--> Processing Dependency: dejavu-sans-mono-fonts for package: 1:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64
--> Package libXt.x86_64 0:1.1.5-3.amzn2.0.2 will be installed
--> Running transaction check
--> Package dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2 will be installed
--> Package dejavu-serif-fonts.noarch 0:2.33-6.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

Package Arch Version Repository Size
Installing:
java-17-amazon-corretto x86_64 1:17.0.9+8-1.amzn2.1 amzn2-core 175 k
Installing for dependencies:
dejavu-sans-mono-fonts noarch 2.33-6.amzn2 amzn2-core 433 k
dejavu-serif-fonts noarch 2.33-6.amzn2 amzn2-core 777 k
java-17-amazon-corretto-headless x86_64 1:17.0.9+8-1.amzn2.1 amzn2-core 94 M
libXt x86_64 1.1.5-3.amzn2.0.2 amzn2-core 177 k

Transaction Summary

Install 1 Package (+4 Dependent packages)

Total download size: 95 M
Installed size: 241 M
Is this ok [y/N]: y

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121
```



```
RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user...
N. Virginia Gooda Sai Koushik Sarma
aws Services Search [Alt+S]
(4/5): libXt-1.1.5-3.amzn2.0.2.x86_64.rpm | 177 kB 00:00:00
(5/5): java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64.rpm | 94 MB 00:00:01

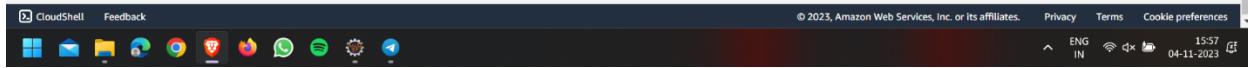
Total 66 MB/s | 95 MB 00:00:01

Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : libXt-1.1.5-3.amzn2.0.2.x86_64 1/5
  Installing : dejavu-serif-fonts-2.33-6.amzn2.noarch 2/5
  Installing : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 3/5
  Installing : 1:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 4/5
  Installing : 1:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 5/5
  Verifying : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 1/5
  Verifying : 1:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 2/5
  Verifying : 1:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 3/5
  Verifying : dejavu-serif-fonts-2.33-6.amzn2.noarch 4/5
  Verifying : libXt-1.1.5-3.amzn2.0.2.x86_64 5/5

Installed:
  java-17-amazon-corretto.x86_64 1:17.0.9+8-1.amzn2.1

Dependency Installed:
  dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2
  libXt.x86_64 0:1.1.5-3.amzn2.0.2
  dejavu-serif-fonts.noarch 0:2.33-6.amzn2
  java-17-amazon-corretto-headless.x86_64 1:17.0.9+8-1.amzn2.1

complete!
[ec2-user@ip-172-31-44-121 ~]$
```



Check Java Version using command.

→ **java -version**

```
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : libxt-1.1.5-3.amzn2.0.2.x86_64 1/5
  Installing : dejavu-serif-fonts-2.33-6.amzn2.noarch 2/5
  Installing : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 3/5
  Installing : libjava-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 4/5
  Installing : libjava-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 5/5
  Verifying   : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 1/5
  Verifying   : libjava-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 2/5
  Verifying   : libjava-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 3/5
  Verifying   : dejavu-serif-fonts-2.33-6.amzn2.noarch 4/5
  Verifying   : libxt-1.1.5-3.amzn2.0.2.x86_64 5/5

Installed:
  java-17-amazon-corretto.x86_64 1:17.0.9+8-1.amzn2.1

Dependency Installed:
  dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2           dejavu-serif-fonts.noarch 0:2.33-6.amzn2           java-17-amazon-corretto-headless.x86_64 1:17.0.9+8-1.amzn2.1
  libxt.x86_64 0:1.1.5-3.amzn2.0.2

complete!
[ec2-user@ip-172-31-44-121 ~]$ java -version
openjdk version "17.0.9" 2023-10-17 LTS
OpenJDK Runtime Environment Corretto-17.0.9.8.1 (build 17.0.9+8-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.9.8.1 (build 17.0.9+8-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-44-121 ~]$
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

Then Enter the given commands:

→ **sudo groupadd --system tomcat**

→ **sudo useradd -d /usr/share/tomcat -r -s /bin/false -g tomcat tomcat**

RDS | us-east-1 Launch instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1 +

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user...

CloudShell Feedback © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Running transaction test
transaction test succeeded
Running transaction
Installing : libXt-1.1.5-3.amzn2.0.2.x86_64 1/5
Installing : dejavu-serif-fonts-2.33-6.amzn2.noarch 2/5
Installing : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 3/5
Installing : i:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 4/5
Installing : i:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 5/5
Verifying : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 1/5
Verifying : i:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 2/5
Verifying : i:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 3/5
Verifying : dejavu-serif-fonts-2.33-6.amzn2.noarch 4/5
Verifying : libXt-1.1.5-3.amzn2.0.2.x86_64 5/5

Installed:
java-17-amazon-corretto.x86_64 1:17.0.9+8-1.amzn2.1

Dependency Installed:
dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2 dejavu-serif-fonts.noarch 0:2.33-6.amzn2 java-17-amazon-corretto-headless.x86_64 1:17.0.9+8-1.amzn2.1
libxt.x86_64 0:1.1.5-3.amzn2.0.2

Complete!
(ec2-user@ip-172-31-44-121 ~)\$ java -version
openjdk version "17.0.9" 2023-10-17 LTS
OpenJDK Runtime Environment Corretto-17.0.9.8.1 (build 17.0.9+8-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.9.8.1 (build 17.0.9+8-LTS, mixed mode, sharing)
(ec2-user@ip-172-31-44-121 ~)\$ sudo groupadd --system tomcat
(ec2-user@ip-172-31-44-121 ~)\$ sudo useradd -d /usr/share/tomcat -r -s /bin/false -g tomcat tomcat

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

→ getent passwd tomcat

```
RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1 + us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user... VPN
aws Services Search [Alt+S] N. Virginia Gooda Sai Koushik Sarma
Transaction test succeeded
Running transaction
  Installing : libXt-1.1.5-3.amzn2.0.2.x86_64 1/5
  Installing : dejavu-serif-fonts-2.33-6.amzn2.noarch 2/5
  Installing : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 3/5
  Installing : libjava-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 4/5
  Installing : libjava-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 5/5
  Verifying : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 1/5
  Verifying : libjava-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 2/5
  Verifying : libjava-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 3/5
  Verifying : dejavu-serif-fonts-2.33-6.amzn2.noarch 4/5
  Verifying : libXt-1.1.5-3.amzn2.0.2.x86_64 5/5

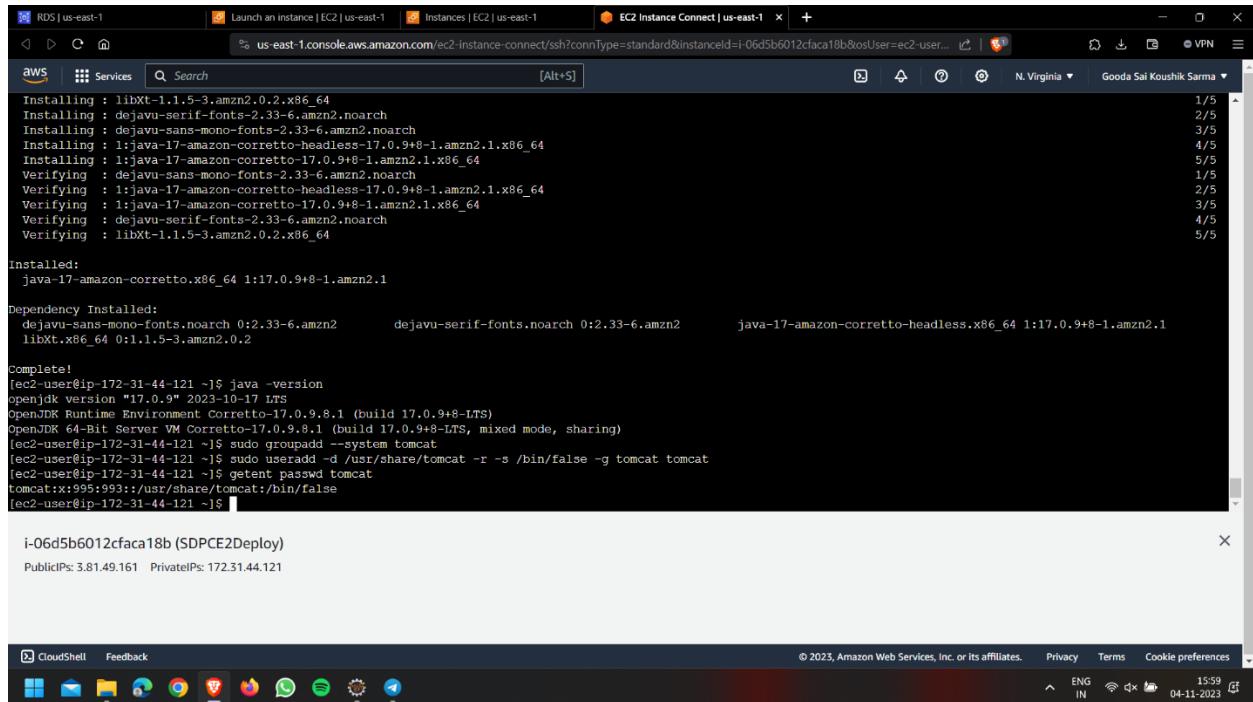
Installed:
  java-17-amazon-corretto.x86_64 1:17.0.9+8-1.amzn2.1

Dependency Installed:
  dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2           dejavu-serif-fonts.noarch 0:2.33-6.amzn2           java-17-amazon-corretto-headless.x86_64 1:17.0.9+8-1.amzn2.1
  libXt.x86_64 0:1.1.5-3.amzn2.0.2

Complete!
[ec2-user@ip-172-31-44-121 ~]$ java -version
openjdk version "17.0.9" 2023-10-17 LTS
OpenJDK Runtime Environment Corretto-17.0.9.8.1 (build 17.0.9+8-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.9.8.1 (build 17.0.9+8-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-44-121 ~]$ sudo groupadd --system tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo useradd -d /usr/share/tomcat -r -s /bin/false -g tomcat tomcat
[ec2-user@ip-172-31-44-121 ~]$ getent passwd tomcat

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121
```





```

RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user... N. Virginia Gooda Sai Koushik Sarma
aws Services Search [Alt+S]
Installing : libXt-1.1.5-3.amzn2.0.2.x86_64 1/5
Installing : dejavu-serif-fonts-2.33-6.amzn2.noarch 2/5
Installing : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 3/5
Installing : l:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 4/5
Installing : l:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 5/5
Verifying : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 1/5
Verifying : l:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 2/5
Verifying : l:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 3/5
Verifying : dejavu-serif-fonts-2.33-6.amzn2.noarch 4/5
Verifying : libXt-1.1.5-3.amzn2.0.2.x86_64 5/5

Installed:
java-17-amazon-corretto.x86_64 1:17.0.9+8-1.amzn2.1

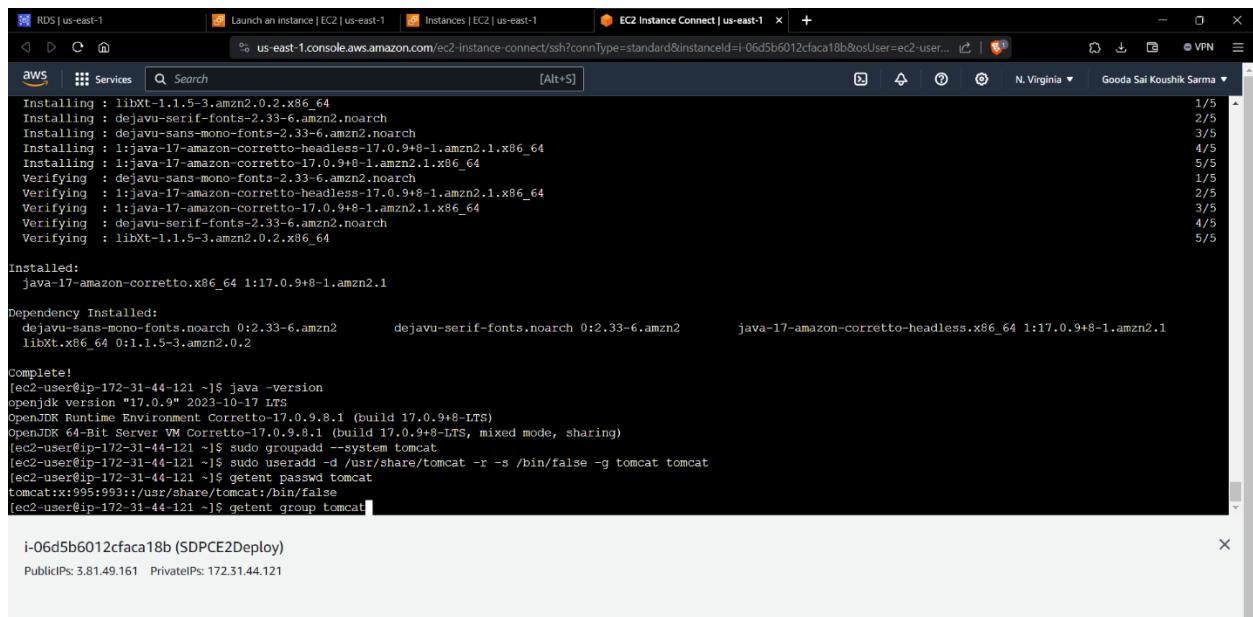
Dependency Installed:
dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2 dejavu-serif-fonts.noarch 0:2.33-6.amzn2 java-17-amazon-corretto-headless.x86_64 1:17.0.9+8-1.amzn2.1

Complete!
[ec2-user@ip-172-31-44-121 ~]$ java -version
openjdk version "17.0.9" 2023-10-17 LTS
OpenJDK Runtime Environment Corretto-17.0.9.8.1 (build 17.0.9+8-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-44-121 ~]$ sudo groupadd --system tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo useradd -d /usr/share/tomcat -r -s /bin/false -g tomcat tomcat
[ec2-user@ip-172-31-44-121 ~]$ getent passwd tomcat
tomcat:x:995:993:/:/usr/share/tomcat:/bin/false
[ec2-user@ip-172-31-44-121 ~]$ 

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

```

→ getent group tomcat



```

RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user... N. Virginia Gooda Sai Koushik Sarma
aws Services Search [Alt+S]
Installing : libXt-1.1.5-3.amzn2.0.2.x86_64 1/5
Installing : dejavu-serif-fonts-2.33-6.amzn2.noarch 2/5
Installing : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 3/5
Installing : l:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 4/5
Installing : l:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 5/5
Verifying : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 1/5
Verifying : l:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 2/5
Verifying : l:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 3/5
Verifying : dejavu-serif-fonts-2.33-6.amzn2.noarch 4/5
Verifying : libXt-1.1.5-3.amzn2.0.2.x86_64 5/5

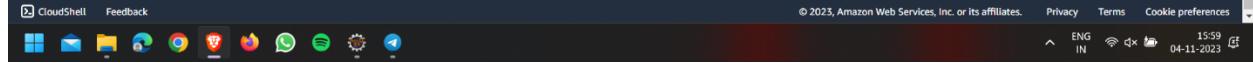
Installed:
java-17-amazon-corretto.x86_64 1:17.0.9+8-1.amzn2.1

Dependency Installed:
dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2 dejavu-serif-fonts.noarch 0:2.33-6.amzn2 java-17-amazon-corretto-headless.x86_64 1:17.0.9+8-1.amzn2.1

Complete!
[ec2-user@ip-172-31-44-121 ~]$ java -version
openjdk version "17.0.9" 2023-10-17 LTS
OpenJDK Runtime Environment Corretto-17.0.9.8.1 (build 17.0.9+8-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-44-121 ~]$ sudo groupadd --system tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo useradd -d /usr/share/tomcat -r -s /bin/false -g tomcat tomcat
[ec2-user@ip-172-31-44-121 ~]$ getent passwd tomcat
tomcat:x:995:993:/:/usr/share/tomcat:/bin/false
[ec2-user@ip-172-31-44-121 ~]$ 

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

```



```

RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user... N. Virginia Gooda Sai Koushik Sarma
aws Services Search [Alt+S]
Installing : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 3/5
Installing : 1:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 4/5
Installing : 1:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 5/5
Verifying : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 1/5
Verifying : 1:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 2/5
Verifying : dejavu-serif-fonts-2.33-6.amzn2.noarch 3/5
Verifying : libXt-1.1.5-3.amzn2.0.2.x86_64 4/5
Verifying : libXt-1.1.5-3.amzn2.0.2.x86_64 5/5

Installed:
java-17-amazon-corretto.x86_64 1:17.0.9+8-1.amzn2.1

Dependency Installed:
dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2 dejavu-serif-fonts.noarch 0:2.33-6.amzn2 java-17-amazon-corretto-headless.x86_64 1:17.0.9+8-1.amzn2.1

Complete!
[ec2-user@ip-172-31-44-121 ~]$ java -version
openjdk version "17.0.9" 2023-10-17 LTS
OpenJDK Runtime Environment Corretto-17.0.9.8.1 (build 17.0.9+8-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.9.8.1 (build 17.0.9+8-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-44-121 ~]$ sudo groupadd --system tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo useradd -d /usr/share/tomcat -r -s /bin/false -g tomcat tomcat
[ec2-user@ip-172-31-44-121 ~]$ getent passwd tomcat
tomcat:x:995:993::/usr/share/tomcat:/bin/false
[ec2-user@ip-172-31-44-121 ~]$ getent group tomcat
tomcat:x:993:
[ec2-user@ip-172-31-44-121 ~]$ 
```

i-06d5b6012cfaca18b (SDPCE2Deploy)

PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

→ **export TOMCAT_VERSION="10.0.23"**

```

RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user... N. Virginia Gooda Sai Koushik Sarma
aws Services Search [Alt+S]
Installing : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 3/5
Installing : 1:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64 4/5
Installing : 1:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 5/5
Verifying : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch 1/5
Verifying : 1:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64 2/5
Verifying : dejavu-serif-fonts-2.33-6.amzn2.noarch 3/5
Verifying : libXt-1.1.5-3.amzn2.0.2.x86_64 4/5
Verifying : libXt-1.1.5-3.amzn2.0.2.x86_64 5/5

Installed:
java-17-amazon-corretto.x86_64 1:17.0.9+8-1.amzn2.1

Dependency Installed:
dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2 dejavu-serif-fonts.noarch 0:2.33-6.amzn2 java-17-amazon-corretto-headless.x86_64 1:17.0.9+8-1.amzn2.1

Complete!
[ec2-user@ip-172-31-44-121 ~]$ java -version
openjdk version "17.0.9" 2023-10-17 LTS
OpenJDK Runtime Environment Corretto-17.0.9.8.1 (build 17.0.9+8-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.9.8.1 (build 17.0.9+8-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-44-121 ~]$ sudo groupadd --system tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo useradd -d /usr/share/tomcat -r -s /bin/false -g tomcat tomcat
[ec2-user@ip-172-31-44-121 ~]$ getent passwd tomcat
tomcat:x:995:993::/usr/share/tomcat:/bin/false
[ec2-user@ip-172-31-44-121 ~]$ getent group tomcat
tomcat:x:993:
[ec2-user@ip-172-31-44-121 ~]$ export TOMCAT VERSION="10.0.23" 
```

i-06d5b6012cfaca18b (SDPCE2Deploy)

PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

To Install Tomcat you can take the from Official Website or use this command

→ **wget https://dlcdn.apache.org/tomcat/tomcat-10/v10.1.15/bin/apache-tomcat-10.1.15.tar.gz**

RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1 Apache Tomcat® - Apache Tomcat x - □ ×

tomcat.apache.org/download-10.cgi

Maven Plugin

Download

- Which version?
- Tomcat 11 (alpha)
- Tomcat 10
- Tomcat 9
- Tomcat 8
- Tomcat Migration Tool for Jakarta EE
- Tomcat Connectors
- Tomcat Native
- Taglibs
- Archives

Documentation

- Tomcat 11.0 (alpha)
- Tomcat 10.1
- Tomcat 9.0
- Tomcat 8.5
- Tomcat Connectors
- Tomcat Native 2
- Tomcat Native 1.2
- Wiki
- Migration Guide
- Presentations
- Specifications

Problems?

- Security Reports
- Find help
- FAQ
- Mailing Lists
- Bug Database
- IRC

Get Involved

- Overview
- Source code
- Buildbot
- Translations

Release Integrity

You **must** verify the integrity of the downloaded files. We provide OpenPGP signatures for every release file. This signature should be matched against the [KEYS](#) file which contains the OpenPGP keys of Tomcat's Release Managers. We also provide [SHA-512](#) checksums for every release file. After you download the file, you should calculate a checksum for your download, and make sure it is the same as ours.

Mirrors

You are currently using <https://dlcdn.apache.org/>. If you encounter a problem with this mirror, please select another mirror. If all mirrors are failing, there are *backup* mirrors (at the end of the mirrors list) that should be available.

Other mirrors: <https://dlcdn.apache.org/> Change

10.1.15

Please see the [README](#) file for packaging information. It explains what every distribution contains.

Binary Distributions

- Core:
 - [zip \(pgp, sha512\)](#)
 - [tar.gz \(pgp, sha512\)](#)
 - [32-bit Windows zip \(pgp, sha512\)](#)
 - [64-bit Windows zip \(pgp, sha512\)](#)
 - [32-bit/64-bit Windows Service Installer \(pgp, sha512\)](#)
- Full documentation:
 - [tar.gz \(pgp, sha512\)](#)
- Deployer:
 - [zip \(pgp, sha512\)](#)
 - [tar.gz \(pgp, sha512\)](#)
- Embedded:
 - [tar.gz \(pgp, sha512\)](#)
 - [zip \(pgp, sha512\)](#)

Source Code Distributions

- [tar.gz \(pgp, sha512\)](#)
- [zip \(pgp, sha512\)](#)

ENG IN 16:00 04-11-2023

RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1 Apache Tomcat® - Apache Tomcat x - □ ×

tomcat.apache.org/download-10.cgi

Maven Plugin

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10.1.15

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Binary Distributions

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 - [32-bit/64-bit Windows Service Installer \(pgp, sha512\)](#)
- Full documentation:
 - [tar.gz \(pgp, sha512\)](#)
- Deployer:
 - [zip \(pgp, sha512\)](#)
 - [tar.gz \(pgp, sha512\)](#)
- Embedded:
 - [tar.gz \(pgp, sha512\)](#)
 - [zip \(pgp, sha512\)](#)

Source Code Distributions

- [tar.gz \(pgp, sha512\)](#)
- [zip \(pgp, sha512\)](#)

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Open link in new tab
Open link in new window
Open link in private window
Open link in private window with Tor
Save link as...
Copy link address
Copy clean link
Brave
Inspect

```
RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1 Apache Tomcat® - Apache Tomcat 10 N. Virginia Gooda Sai Koushik Sarma 4/5 5/5 1/5 2/5 3/5 4/5 5/5

aws Services Search [Alt+S] Instances | EC2 | us-east-1 us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user... VPN

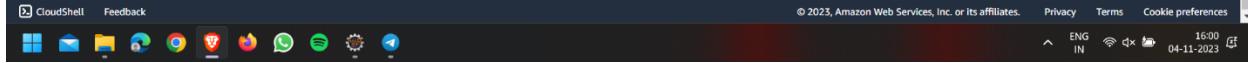
Installing : l:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64
Installing : l:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64
Verifying : dejavu-sans-mono-fonts-2.33-6.amzn2.noarch
Verifying : l:java-17-amazon-corretto-headless-17.0.9+8-1.amzn2.1.x86_64
Verifying : l:java-17-amazon-corretto-17.0.9+8-1.amzn2.1.x86_64
Verifying : dejavu-serif-fonts-2.33-6.amzn2.noarch
Verifying : libXt-1.1.5-3.amzn2.0.2.x86_64

Installed:
java-17-amazon-corretto.x86_64 1:17.0.9+8-1.amzn2.1

Dependency Installed:
dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2 dejavu-serif-fonts.noarch 0:2.33-6.amzn2 java-17-amazon-corretto-headless.x86_64 1:17.0.9+8-1.amzn2.1

Complete!
[ec2-user@ip-172-31-44-121 ~]$ java -version
openjdk version "17.0.9" 2023-10-17 LTS
OpenJDK Runtime Environment Corretto-17.0.9.8.1 (build 17.0.9+8-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.9.8.1 (build 17.0.9+8-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-44-121 ~]$ sudo groupadd --system tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo useradd -d /usr/share/tomcat -r -s /bin/false -g tomcat tomcat
[ec2-user@ip-172-31-44-121 ~]$ getent passwd tomcat
tomcat:x:995:993::/usr/share/tomcat:/bin/false
[ec2-user@ip-172-31-44-121 ~]$ getent group tomcat
tomcat:x:993:
[ec2-user@ip-172-31-44-121 ~]$ export TOMCAT_VERSION="10.0.23"
[ec2-user@ip-172-31-44-121 ~]$ wget https://dlcdn.apache.org/tomcat/tomcat-10/v10.1.15/bin/apache-tomcat-10.1.15.tar.gz

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121
```



```
RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1 Apache Tomcat® - Apache Tomcat 10 N. Virginia Gooda Sai Koushik Sarma 4/5 5/5 1/5 2/5 3/5 4/5 5/5

aws Services Search [Alt+S] Instances | EC2 | us-east-1 us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user... VPN

dejavu-sans-mono-fonts.noarch 0:2.33-6.amzn2 dejavu-serif-fonts.noarch 0:2.33-6.amzn2 java-17-amazon-corretto-headless.x86_64 1:17.0.9+8-1.amzn2.1
libXt-1.1.5-3.amzn2.0.2.x86_64

Complete!
[ec2-user@ip-172-31-44-121 ~]$ java -version
openjdk version "17.0.9" 2023-10-17 LTS
OpenJDK Runtime Environment Corretto-17.0.9.8.1 (build 17.0.9+8-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.9.8.1 (build 17.0.9+8-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-44-121 ~]$ sudo groupadd --system tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo useradd -d /usr/share/tomcat -r -s /bin/false -g tomcat tomcat
[ec2-user@ip-172-31-44-121 ~]$ getent passwd tomcat
tomcat:x:995:993::/usr/share/tomcat:/bin/false
[ec2-user@ip-172-31-44-121 ~]$ getent group tomcat
tomcat:x:993:
[ec2-user@ip-172-31-44-121 ~]$ export TOMCAT_VERSION="10.0.23"
[ec2-user@ip-172-31-44-121 ~]$ wget https://dlcdn.apache.org/tomcat/tomcat-10/v10.1.15/bin/apache-tomcat-10.1.15.tar.gz
--2023-11-04 10:30:42-- https://dlcdn.apache.org/tomcat/tomcat-10/v10.1.15/bin/apache-tomcat-10.1.15.tar.gz
Resolving dlcdn.apache.org (dlcdn.apache.org)... 151.101.2.132, 2a04:4e42:8:64
Connecting to dlcdn.apache.org (dlcdn.apache.org) 151.101.2.132:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 12408080 (12MB) [application/x-gzip]
Saving to: 'apache-tomcat-10.1.15.tar.gz'

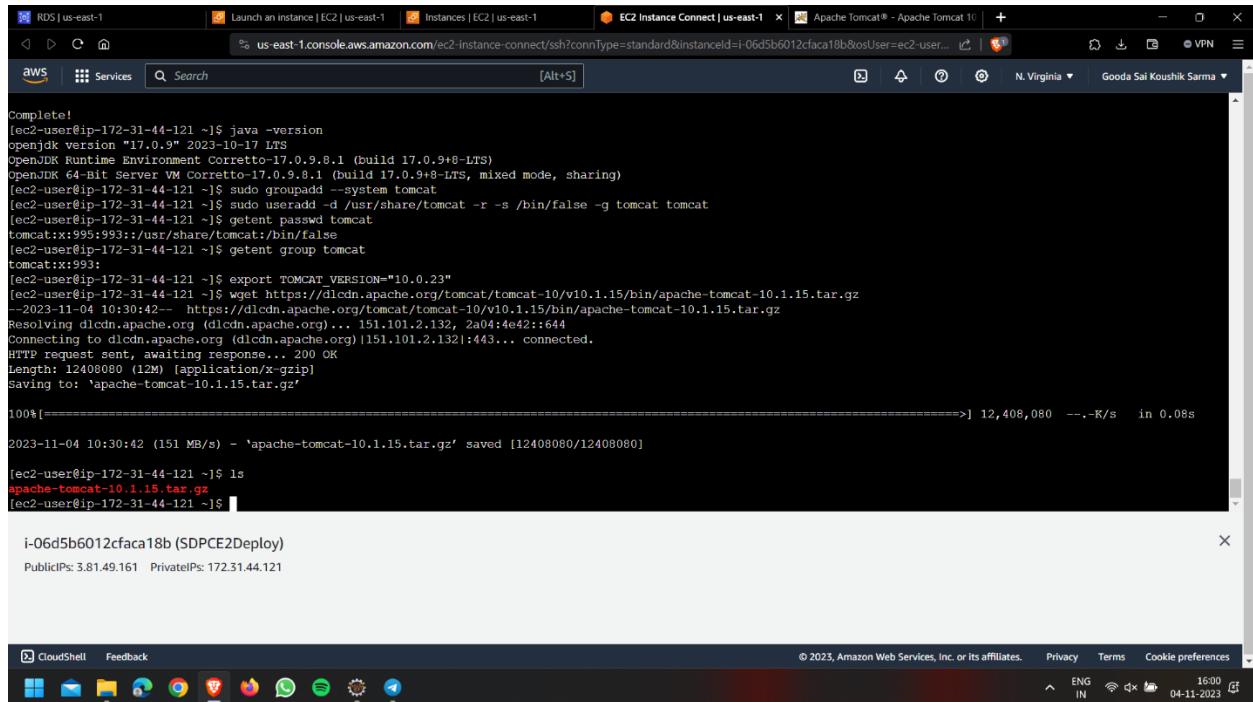
100% [=====] 12,408,080 --.-K/s in 0.08s

2023-11-04 10:30:42 (151 MB/s) - 'apache-tomcat-10.1.15.tar.gz' saved [12408080/12408080]

[ec2-user@ip-172-31-44-121 ~]$
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121





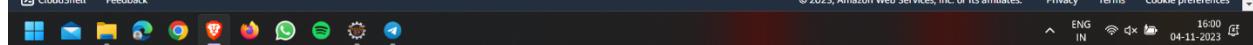
```
Complete!
[ec2-user@ip-172-31-44-121 ~]$ java -version
openjdk version "17.0.9" 2023-10-17 LTS
OpenJDK Runtime Environment Corretto-17.0.9.8.1 (build 17.0.9+8-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.9.8.1 (build 17.0.9+8-LTS, mixed mode, sharing)
[ec2-user@ip-172-31-44-121 ~]$ sudo groupadd --system tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo useradd -d /usr/share/tomcat -r -s /bin/false -g tomcat tomcat
[ec2-user@ip-172-31-44-121 ~]$ getent passwd tomcat
tomcat:x:995:993::/usr/share/tomcat:/bin/false
[ec2-user@ip-172-31-44-121 ~]$ getent group tomcat
tomcat:x:993:
[ec2-user@ip-172-31-44-121 ~]$ export TOMCAT_VERSION="10.0.23"
[ec2-user@ip-172-31-44-121 ~]$ wget https://dlcdn.apache.org/tomcat/tomcat-10/v10.1.15/bin/apache-tomcat-10.1.15.tar.gz
--2023-11-04 10:30:42 -- https://dlcdn.apache.org/tomcat/tomcat-10/v10.1.15/bin/apache-tomcat-10.1.15.tar.gz
Resolving dlcdn.apache.org (dlcdn.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to dlcdn.apache.org (dlcdn.apache.org)|151.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 12408080 (12M) [application/x-gzip]
Saving to: 'apache-tomcat-10.1.15.tar.gz'

100%[=====] 12,408,080  ---.K/s in 0.08s

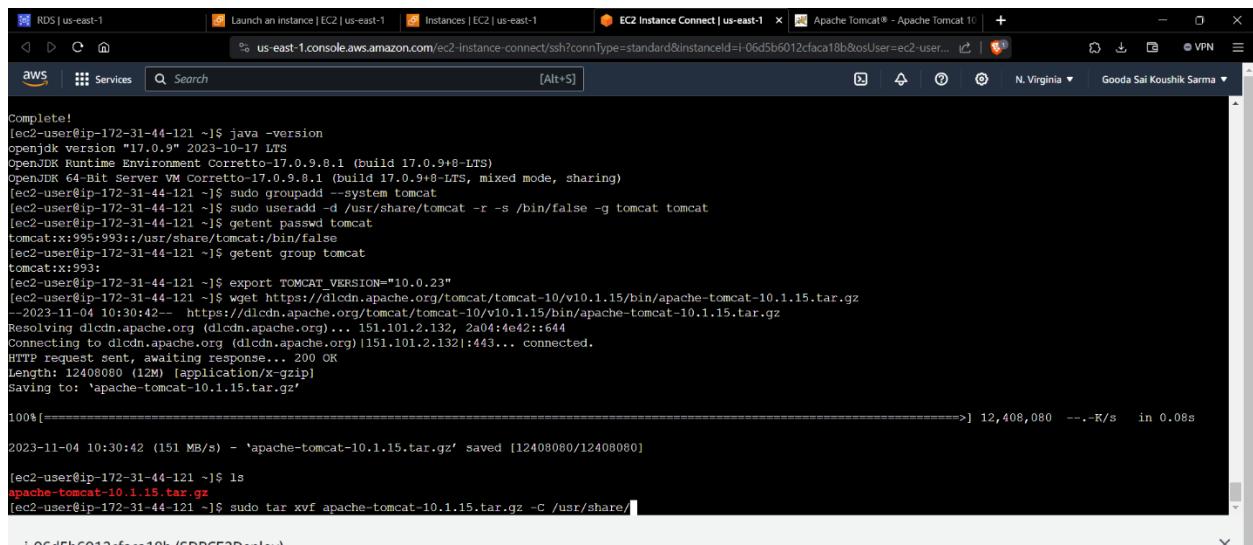
2023-11-04 10:30:42 (151 MB/s) - 'apache-tomcat-10.1.15.tar.gz' saved [12408080/12408080]

[ec2-user@ip-172-31-44-121 ~]$ ls
apache-tomcat-10.1.15.tar.gz
[ec2-user@ip-172-31-44-121 ~]$
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



→ **sudo tar xvf apache-tomcat-10.1.15.tar.gz -C /usr/share/**



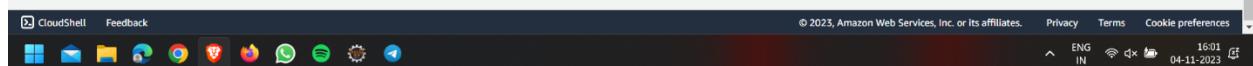
```
Complete!
[ec2-user@ip-172-31-44-121 ~]$ java -version
openjdk version "17.0.9" 2023-10-17 LTS
OpenJDK Runtime Environment Corretto-17.0.9.8.1 (build 17.0.9+8-LTS)
OpenJDK 64-Bit Server VM Corretto-17.0.9.8.1 (build 17.0.9+8-LTS, mixed mode, sharing)
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tomcat:x:995:993::/usr/share/tomcat:/bin/false
[ec2-user@ip-172-31-44-121 ~]$ getent group tomcat
tomcat:x:993:
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[ec2-user@ip-172-31-44-121 ~]$ wget https://dlcdn.apache.org/tomcat/tomcat-10/v10.1.15/bin/apache-tomcat-10.1.15.tar.gz
--2023-11-04 10:30:42 -- https://dlcdn.apache.org/tomcat/tomcat-10/v10.1.15/bin/apache-tomcat-10.1.15.tar.gz
Resolving dlcdn.apache.org (dlcdn.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to dlcdn.apache.org (dlcdn.apache.org)|151.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 12408080 (12M) [application/x-gzip]
Saving to: 'apache-tomcat-10.1.15.tar.gz'

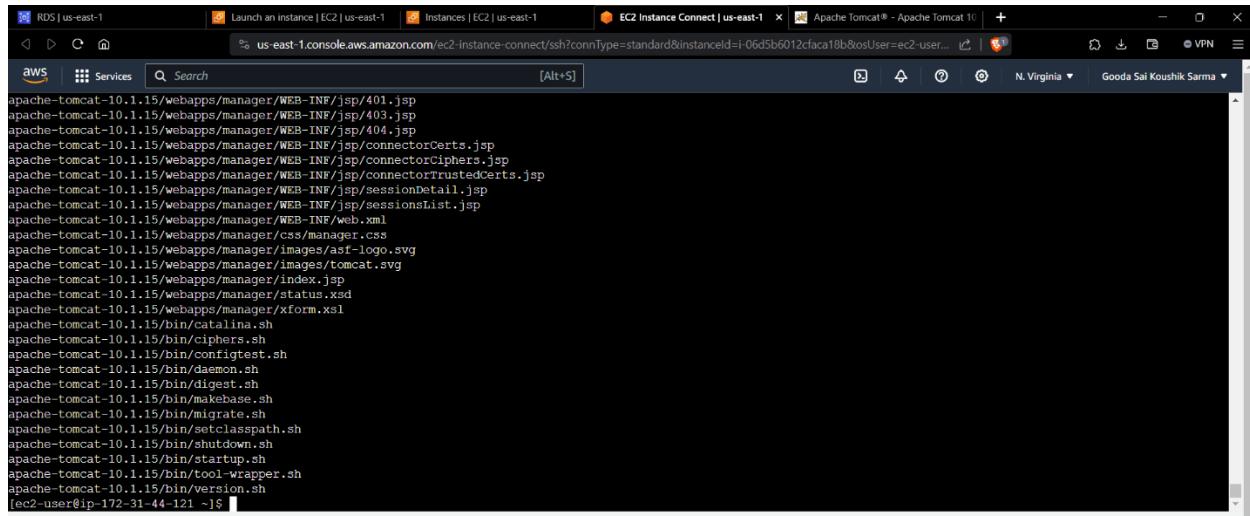
100%[=====] 12,408,080  ---.K/s in 0.08s

2023-11-04 10:30:42 (151 MB/s) - 'apache-tomcat-10.1.15.tar.gz' saved [12408080/12408080]

[ec2-user@ip-172-31-44-121 ~]$ ls
apache-tomcat-10.1.15.tar.gz
[ec2-user@ip-172-31-44-121 ~]$ sudo tar xvf apache-tomcat-10.1.15.tar.gz -C /usr/share/
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

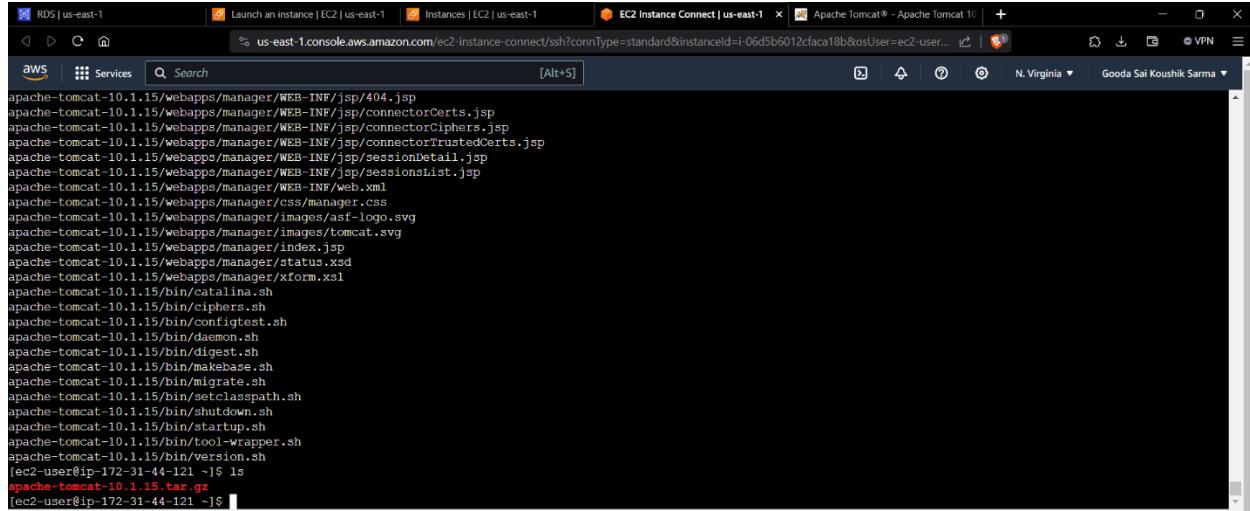
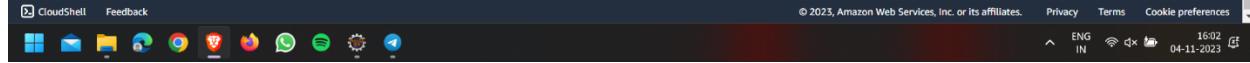




```
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/401.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/403.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/404.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorTrustedCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/web.xml
apache-tomcat-10.1.15/webapps/manager/css/manager.css
apache-tomcat-10.1.15/webapps/manager/images/asf-logo.svg
apache-tomcat-10.1.15/webapps/manager/images/tomcat.svg
apache-tomcat-10.1.15/webapps/manager/index.jsp
apache-tomcat-10.1.15/webapps/manager/status.xsd
apache-tomcat-10.1.15/webapps/manager/xform.xsl
apache-tomcat-10.1.15/bin/catalina.sh
apache-tomcat-10.1.15/bin/ciphers.sh
apache-tomcat-10.1.15/bin/configtest.sh
apache-tomcat-10.1.15/bin/daemon.sh
apache-tomcat-10.1.15/bin/digest.sh
apache-tomcat-10.1.15/bin/makebase.sh
apache-tomcat-10.1.15/bin/migrate.sh
apache-tomcat-10.1.15/bin/setclasspath.sh
apache-tomcat-10.1.15/bin/shutdown.sh
apache-tomcat-10.1.15/bin/startup.sh
apache-tomcat-10.1.15/bin/tool-wrapper.sh
apache-tomcat-10.1.15/bin/version.sh
[ec2-user@ip-172-31-44-121 ~]$ ls
```

i-06d5b6012fcaca18b (SDPCE2Deploy)

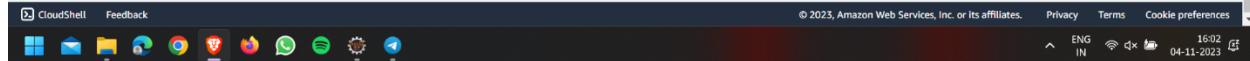
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



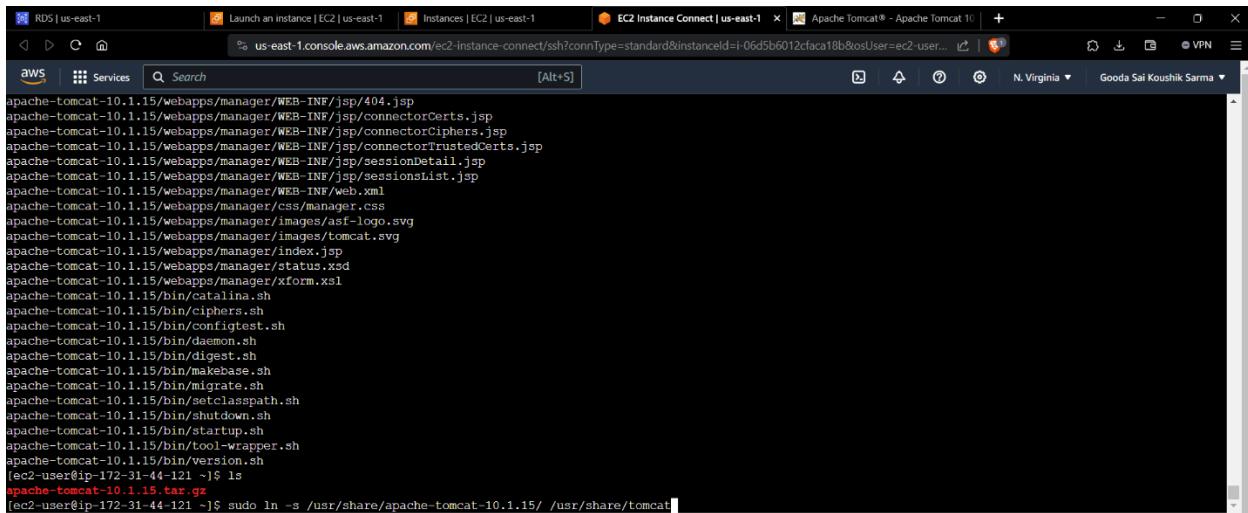
```
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/404.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorTrustedCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/web.xml
apache-tomcat-10.1.15/webapps/manager/css/manager.css
apache-tomcat-10.1.15/webapps/manager/images/asf-logo.svg
apache-tomcat-10.1.15/webapps/manager/images/tomcat.svg
apache-tomcat-10.1.15/webapps/manager/index.jsp
apache-tomcat-10.1.15/webapps/manager/status.xsd
apache-tomcat-10.1.15/webapps/manager/xform.xsl
apache-tomcat-10.1.15/bin/catalina.sh
apache-tomcat-10.1.15/bin/ciphers.sh
apache-tomcat-10.1.15/bin/configtest.sh
apache-tomcat-10.1.15/bin/daemon.sh
apache-tomcat-10.1.15/bin/digest.sh
apache-tomcat-10.1.15/bin/makebase.sh
apache-tomcat-10.1.15/bin/migrate.sh
apache-tomcat-10.1.15/bin/setclasspath.sh
apache-tomcat-10.1.15/bin/shutdown.sh
apache-tomcat-10.1.15/bin/startup.sh
apache-tomcat-10.1.15/bin/tool-wrapper.sh
apache-tomcat-10.1.15/bin/version.sh
[ec2-user@ip-172-31-44-121 ~]$ ls
apache-tomcat-10.1.15.tar.gz
[ec2-user@ip-172-31-44-121 ~]$
```

i-06d5b6012fcaca18b (SDPCE2Deploy)

PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



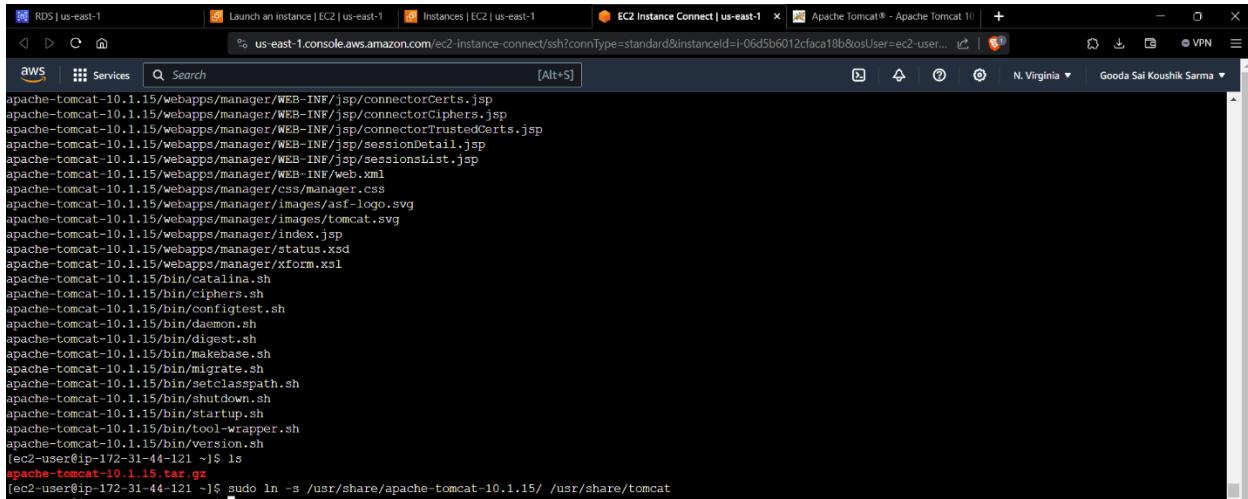
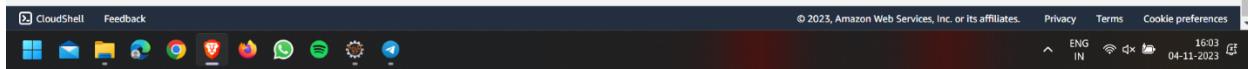
→ sudo ln -s /usr/share/apache-tomcat-10.1.15/ /usr/share/tomcat



```
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/404.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorTrustedCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/web.xml
apache-tomcat-10.1.15/webapps/manager/css/manager.css
apache-tomcat-10.1.15/webapps/manager/images/asf-logo.svg
apache-tomcat-10.1.15/webapps/manager/images/tomcat.svg
apache-tomcat-10.1.15/webapps/manager/index.jsp
apache-tomcat-10.1.15/webapps/manager/status.xsd
apache-tomcat-10.1.15/webapps/manager/xform.xsl
apache-tomcat-10.1.15/bin/catalina.sh
apache-tomcat-10.1.15/bin/ciphers.sh
apache-tomcat-10.1.15/bin/configtest.sh
apache-tomcat-10.1.15/bin/daemon.sh
apache-tomcat-10.1.15/bin/digest.sh
apache-tomcat-10.1.15/bin/makebase.sh
apache-tomcat-10.1.15/bin/migrate.sh
apache-tomcat-10.1.15/bin/setclasspath.sh
apache-tomcat-10.1.15/bin/shutdown.sh
apache-tomcat-10.1.15/bin/startup.sh
apache-tomcat-10.1.15/bin/tool-wrapper.sh
apache-tomcat-10.1.15/bin/version.sh
[ec2-user@ip-172-31-44-121 ~]$ ls
apache-tomcat-10.1.15.tar.gz
[ec2-user@ip-172-31-44-121 ~]$ sudo ln -s /usr/share/apache-tomcat-10.1.15/ /usr/share/tomcat
```

i-06d5b6012cfaca18b (SDPCE2Deploy)

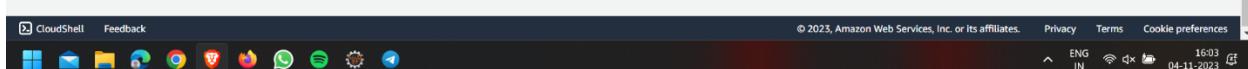
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



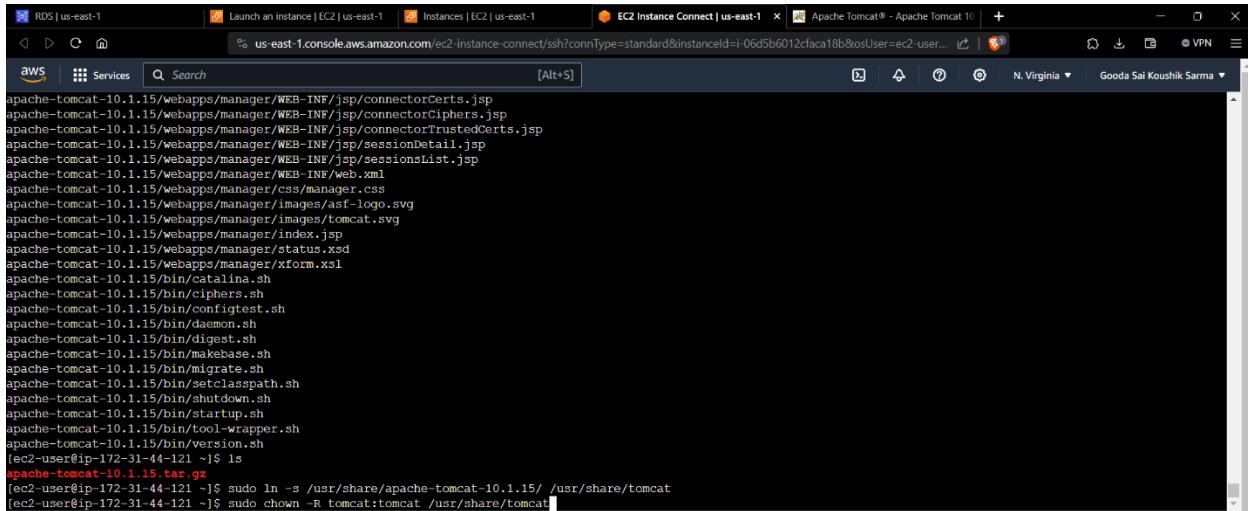
```
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorTrustedCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/web.xml
apache-tomcat-10.1.15/webapps/manager/css/manager.css
apache-tomcat-10.1.15/webapps/manager/images/asf-logo.svg
apache-tomcat-10.1.15/webapps/manager/images/tomcat.svg
apache-tomcat-10.1.15/webapps/manager/index.jsp
apache-tomcat-10.1.15/webapps/manager/status.xsd
apache-tomcat-10.1.15/webapps/manager/xform.xsl
apache-tomcat-10.1.15/bin/catalina.sh
apache-tomcat-10.1.15/bin/ciphers.sh
apache-tomcat-10.1.15/bin/configtest.sh
apache-tomcat-10.1.15/bin/daemon.sh
apache-tomcat-10.1.15/bin/digest.sh
apache-tomcat-10.1.15/bin/makebase.sh
apache-tomcat-10.1.15/bin/migrate.sh
apache-tomcat-10.1.15/bin/setclasspath.sh
apache-tomcat-10.1.15/bin/shutdown.sh
apache-tomcat-10.1.15/bin/startup.sh
apache-tomcat-10.1.15/bin/tool-wrapper.sh
apache-tomcat-10.1.15/bin/version.sh
[ec2-user@ip-172-31-44-121 ~]$ ls
apache-tomcat-10.1.15.tar.gz
[ec2-user@ip-172-31-44-121 ~]$
```

i-06d5b6012cfaca18b (SDPCE2Deploy)

PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



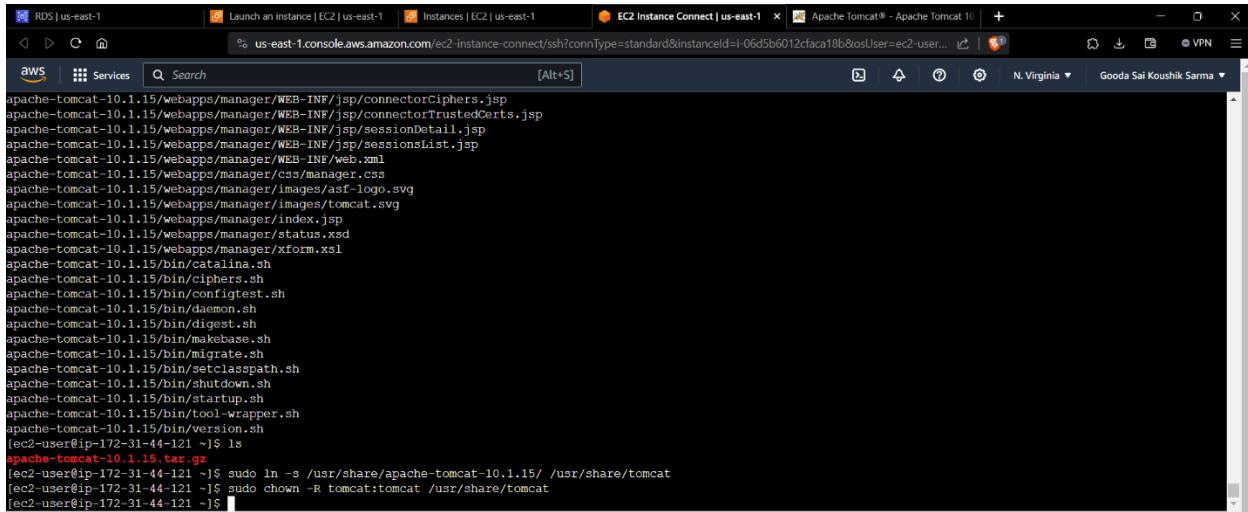
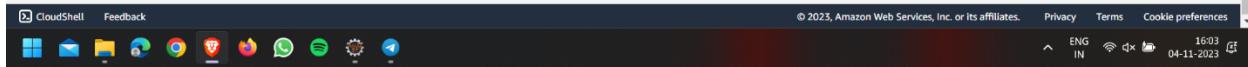
→ sudo chown -R tomcat:tomcat /usr/share/tomcat



```
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorTrustedCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/web.xml
apache-tomcat-10.1.15/webapps/manager/css/manager.css
apache-tomcat-10.1.15/webapps/manager/images/asf-logo.svg
apache-tomcat-10.1.15/webapps/manager/images/tomcat.svg
apache-tomcat-10.1.15/webapps/manager/index.jsp
apache-tomcat-10.1.15/webapps/manager/status.xsd
apache-tomcat-10.1.15/webapps/manager/xform.xls
apache-tomcat-10.1.15/bin/catalina.sh
apache-tomcat-10.1.15/bin/ciphers.sh
apache-tomcat-10.1.15/bin/configtest.sh
apache-tomcat-10.1.15/bin/daemon.sh
apache-tomcat-10.1.15/bin/digest.sh
apache-tomcat-10.1.15/bin/makebase.sh
apache-tomcat-10.1.15/bin/migrate.sh
apache-tomcat-10.1.15/bin/setclasspath.sh
apache-tomcat-10.1.15/bin/shutdown.sh
apache-tomcat-10.1.15/bin/startup.sh
apache-tomcat-10.1.15/bin/tool-wrapper.sh
apache-tomcat-10.1.15/bin/version.sh
[ec2-user@ip-172-31-44-121 ~]$ ls
apache-tomcat-10.1.15.tar.gz
[ec2-user@ip-172-31-44-121 ~]$ sudo ln -s /usr/share/apache-tomcat-10.1.15/ /usr/share/tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo chown -R tomcat:tomcat /usr/share/tomcat
```

i-06d5b6012cfaca18b (SDPCE2Deploy)

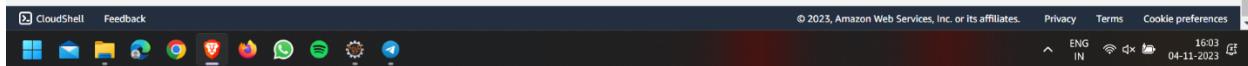
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



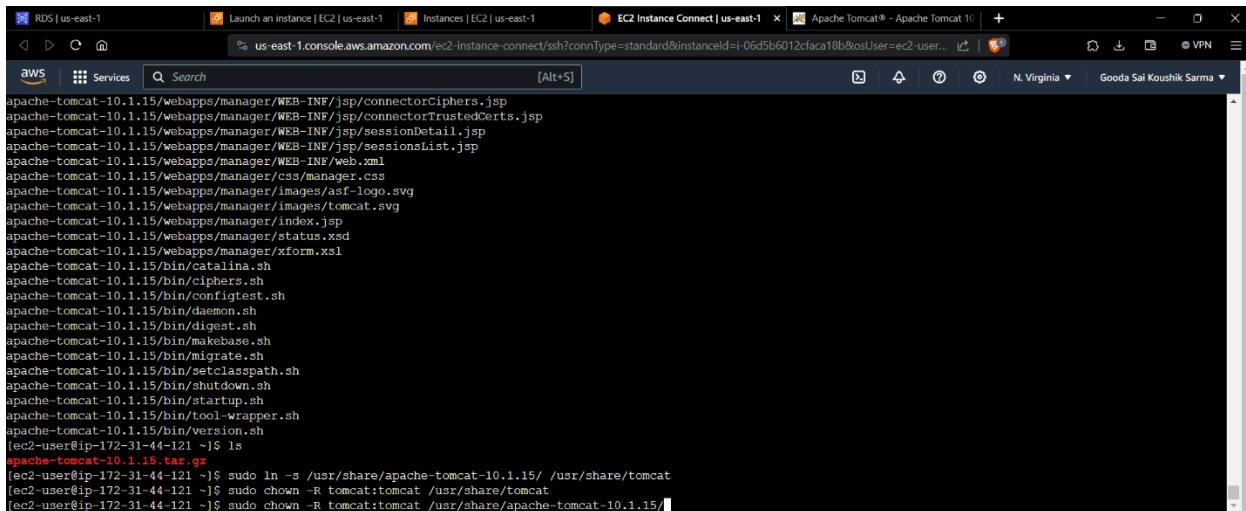
```
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorTrustedCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/web.xml
apache-tomcat-10.1.15/webapps/manager/css/manager.css
apache-tomcat-10.1.15/webapps/manager/images/asf-logo.svg
apache-tomcat-10.1.15/webapps/manager/images/tomcat.svg
apache-tomcat-10.1.15/webapps/manager/index.jsp
apache-tomcat-10.1.15/webapps/manager/status.xsd
apache-tomcat-10.1.15/webapps/manager/xform.xls
apache-tomcat-10.1.15/bin/catalina.sh
apache-tomcat-10.1.15/bin/ciphers.sh
apache-tomcat-10.1.15/bin/configtest.sh
apache-tomcat-10.1.15/bin/daemon.sh
apache-tomcat-10.1.15/bin/digest.sh
apache-tomcat-10.1.15/bin/makebase.sh
apache-tomcat-10.1.15/bin/migrate.sh
apache-tomcat-10.1.15/bin/setclasspath.sh
apache-tomcat-10.1.15/bin/shutdown.sh
apache-tomcat-10.1.15/bin/startup.sh
apache-tomcat-10.1.15/bin/tool-wrapper.sh
apache-tomcat-10.1.15/bin/version.sh
[ec2-user@ip-172-31-44-121 ~]$ ls
apache-tomcat-10.1.15.tar.gz
[ec2-user@ip-172-31-44-121 ~]$ sudo ln -s /usr/share/apache-tomcat-10.1.15/ /usr/share/tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo chown -R tomcat:tomcat /usr/share/tomcat
[ec2-user@ip-172-31-44-121 ~]$
```

i-06d5b6012cfaca18b (SDPCE2Deploy)

PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



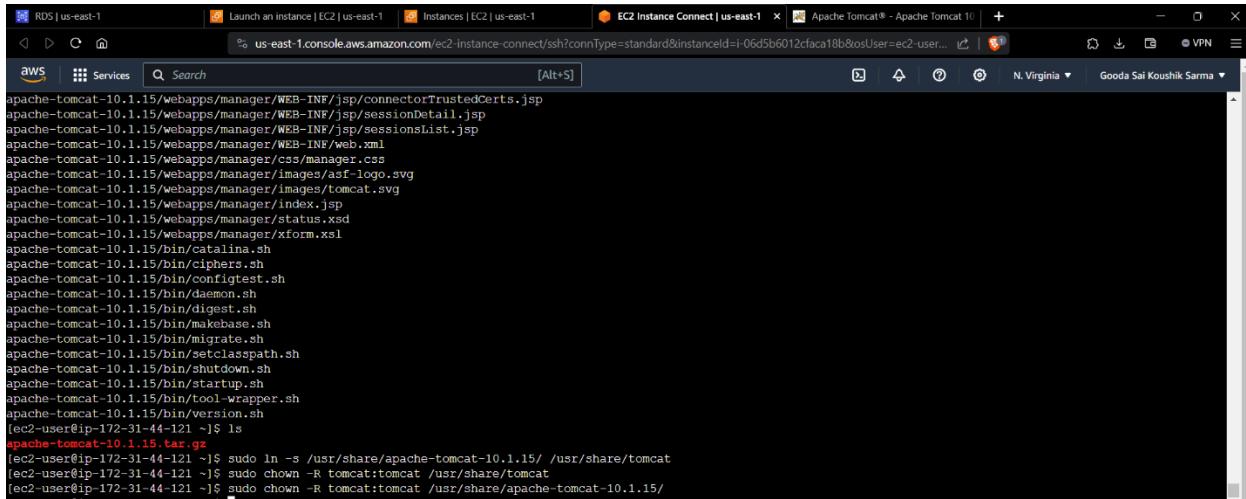
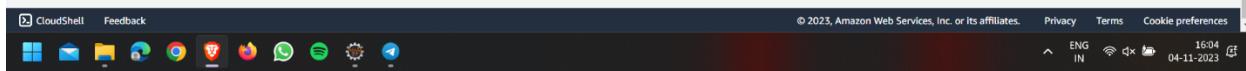
→ sudo chown -R tomcat:tomcat /usr/share/apache-tomcat-10.1.15/



```
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorTrustedCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/web.xml
apache-tomcat-10.1.15/webapps/manager/css/manager.css
apache-tomcat-10.1.15/webapps/manager/images/asf-logo.svg
apache-tomcat-10.1.15/webapps/manager/images/tomcat.svg
apache-tomcat-10.1.15/webapps/manager/index.jsp
apache-tomcat-10.1.15/webapps/manager/status.xsd
apache-tomcat-10.1.15/webapps/manager/xform.xsl
apache-tomcat-10.1.15/bin/catalina.sh
apache-tomcat-10.1.15/bin/ciphers.sh
apache-tomcat-10.1.15/bin/configtest.sh
apache-tomcat-10.1.15/bin/digest.sh
apache-tomcat-10.1.15/bin/makebase.sh
apache-tomcat-10.1.15/bin/migrate.sh
apache-tomcat-10.1.15/bin/setclasspath.sh
apache-tomcat-10.1.15/bin/shutdown.sh
apache-tomcat-10.1.15/bin/startup.sh
apache-tomcat-10.1.15/bin/tool-wrapper.sh
apache-tomcat-10.1.15/bin/version.sh
[ec2-user@ip-172-31-44-121 ~]$ ls
apache-tomcat-10.1.15.tar.gz
[ec2-user@ip-172-31-44-121 ~]$ sudo ln -s /usr/share/apache-tomcat-10.1.15/ /usr/share/tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo chown -R tomcat:tomcat /usr/share/tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo chown -R tomcat:tomcat /usr/share/apache-tomcat-10.1.15/
```

i-06d5b6012cfaca18b (SDPCE2Deploy)

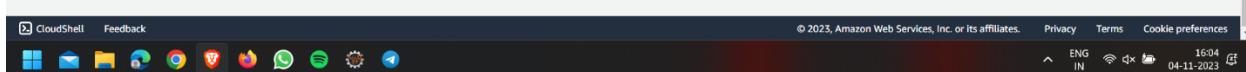
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



```
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorTrustedCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/web.xml
apache-tomcat-10.1.15/webapps/manager/css/manager.css
apache-tomcat-10.1.15/webapps/manager/images/asf-logo.svg
apache-tomcat-10.1.15/webapps/manager/images/tomcat.svg
apache-tomcat-10.1.15/webapps/manager/index.jsp
apache-tomcat-10.1.15/webapps/manager/status.xsd
apache-tomcat-10.1.15/webapps/manager/xform.xsl
apache-tomcat-10.1.15/bin/catalina.sh
apache-tomcat-10.1.15/bin/ciphers.sh
apache-tomcat-10.1.15/bin/configtest.sh
apache-tomcat-10.1.15/bin/digest.sh
apache-tomcat-10.1.15/bin/makebase.sh
apache-tomcat-10.1.15/bin/migrate.sh
apache-tomcat-10.1.15/bin/setclasspath.sh
apache-tomcat-10.1.15/bin/shutdown.sh
apache-tomcat-10.1.15/bin/startup.sh
apache-tomcat-10.1.15/bin/tool-wrapper.sh
apache-tomcat-10.1.15/bin/version.sh
[ec2-user@ip-172-31-44-121 ~]$ ls
apache-tomcat-10.1.15.tar.gz
[ec2-user@ip-172-31-44-121 ~]$ sudo ln -s /usr/share/apache-tomcat-10.1.15/ /usr/share/tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo chown -R tomcat:tomcat /usr/share/tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo chown -R tomcat:tomcat /usr/share/apache-tomcat-10.1.15/
```

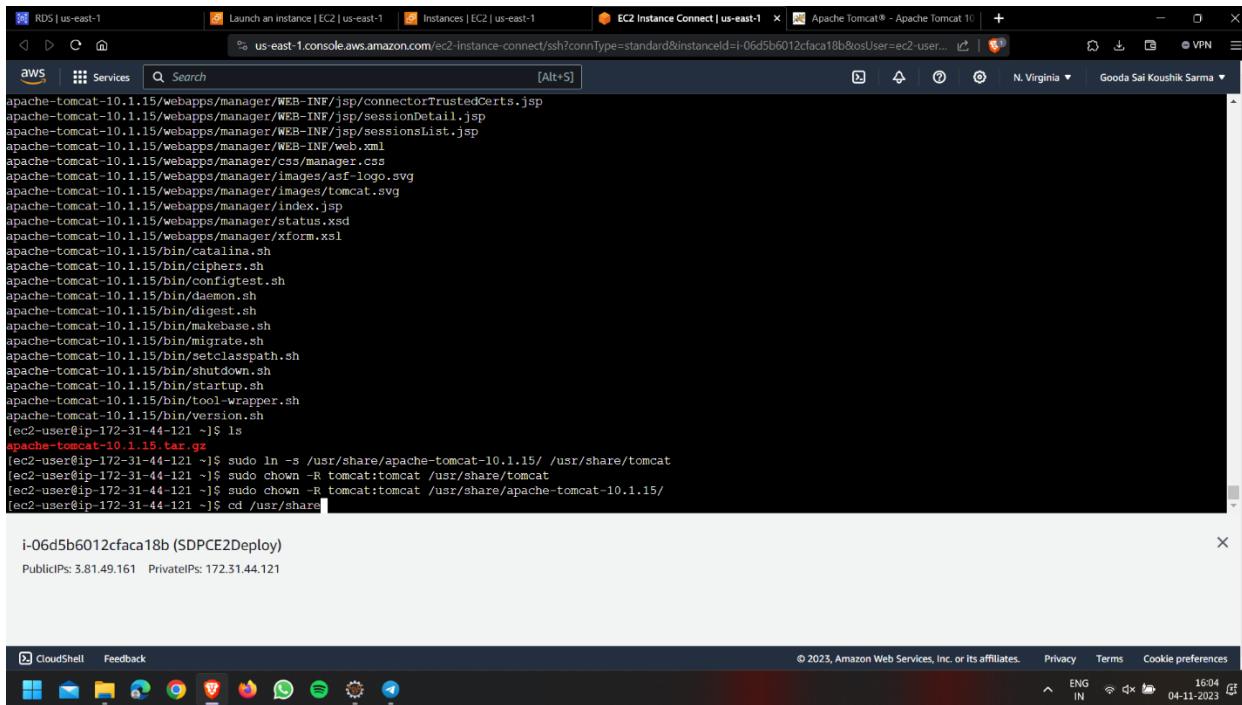
i-06d5b6012cfaca18b (SDPCE2Deploy)

PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



Suraj

→ cd /usr/share

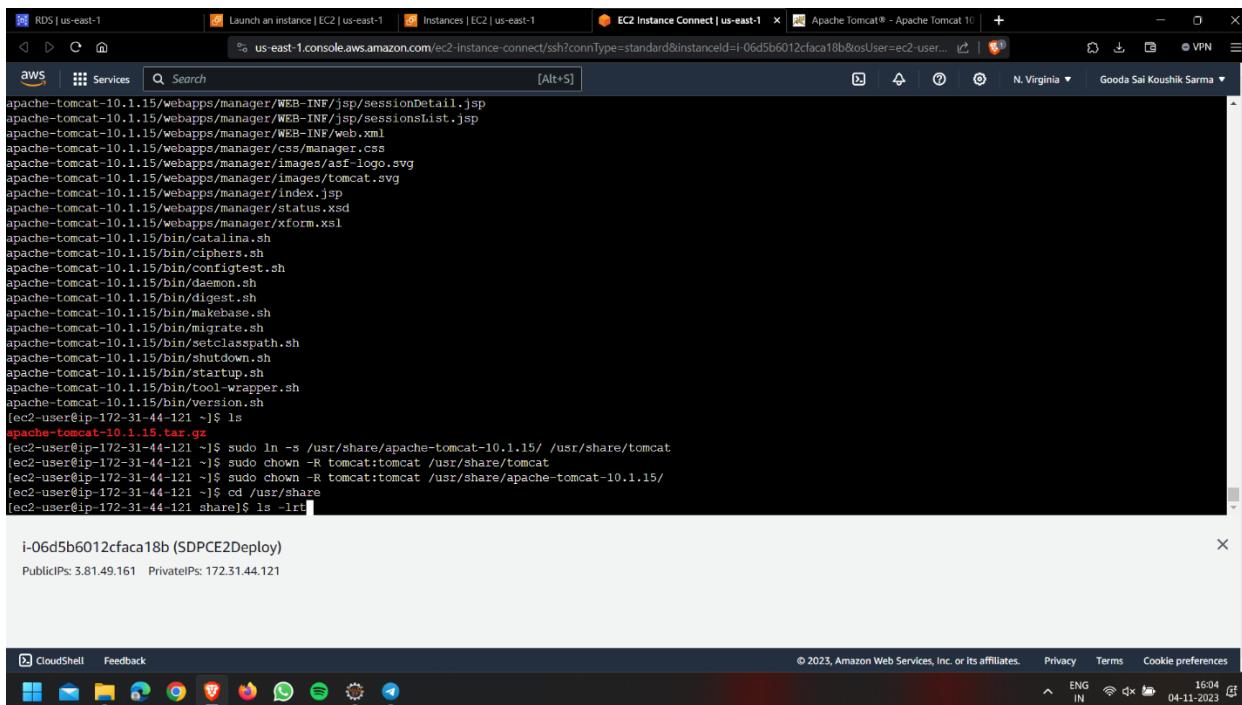


```
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/connectorTrustedCerts.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/web.xml
apache-tomcat-10.1.15/webapps/manager/css/manager.css
apache-tomcat-10.1.15/webapps/manager/images/asf-logo.svg
apache-tomcat-10.1.15/webapps/manager/images/tomcat.svg
apache-tomcat-10.1.15/webapps/manager/index.jsp
apache-tomcat-10.1.15/webapps/manager/status.xsd
apache-tomcat-10.1.15/webapps/manager/xform.xsl
apache-tomcat-10.1.15/bin/catalina.sh
apache-tomcat-10.1.15/bin/ciphers.sh
apache-tomcat-10.1.15/bin/configtest.sh
apache-tomcat-10.1.15/bin/daemon.sh
apache-tomcat-10.1.15/bin/digest.sh
apache-tomcat-10.1.15/bin/makebase.sh
apache-tomcat-10.1.15/bin/migrate.sh
apache-tomcat-10.1.15/bin/setclasspath.sh
apache-tomcat-10.1.15/bin/shutdown.sh
apache-tomcat-10.1.15/bin/startup.sh
apache-tomcat-10.1.15/bin/tool-wrapper.sh
apache-tomcat-10.1.15/bin/version.sh
[ec2-user@ip-172-31-44-121 ~]$ ls
apache-tomcat-10.1.15.tar.gz
[ec2-user@ip-172-31-44-121 ~]$ sudo ln -s /usr/share/apache-tomcat-10.1.15/ /usr/share/tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo chown -R tomcat:tomcat /usr/share/tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo chown -R tomcat:tomcat /usr/share/apache-tomcat-10.1.15/
[ec2-user@ip-172-31-44-121 ~]$ cd /usr/share
[ec2-user@ip-172-31-44-121 share]$ ls -lrt
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

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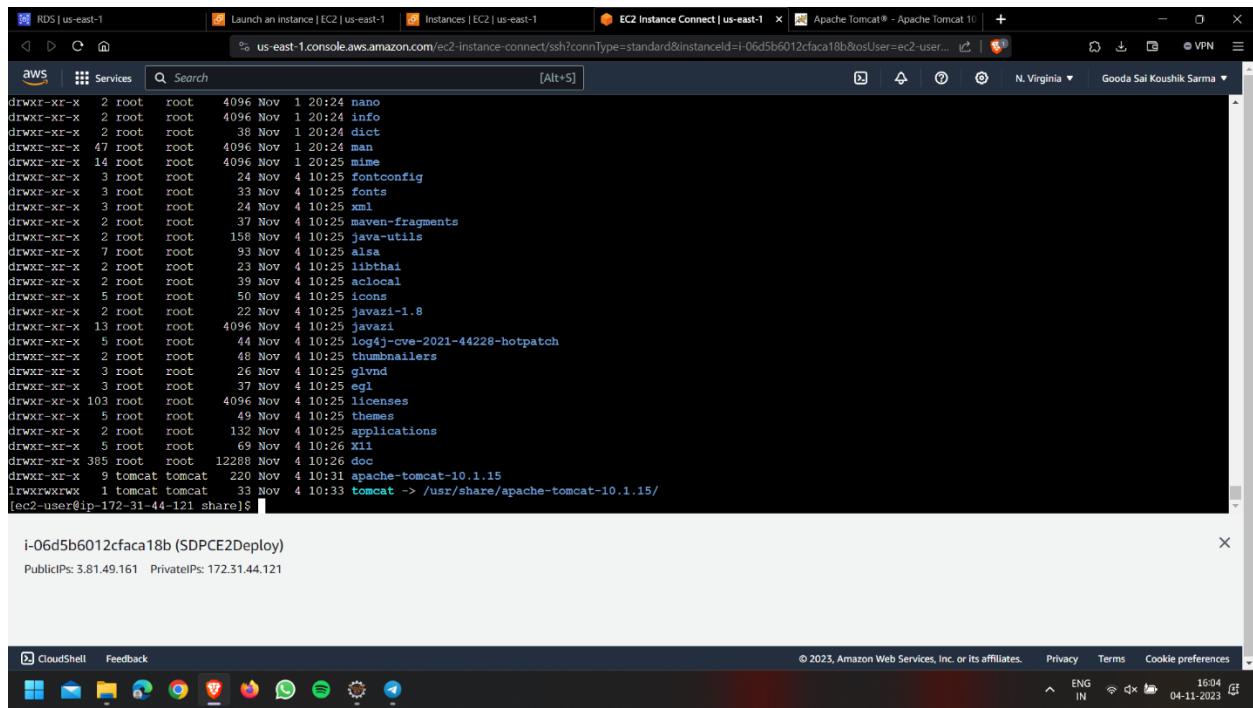
→ ls -lrt



```
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-10.1.15/webapps/manager/WEB-INF/web.xml
apache-tomcat-10.1.15/webapps/manager/css/manager.css
apache-tomcat-10.1.15/webapps/manager/images/asf-logo.svg
apache-tomcat-10.1.15/webapps/manager/images/tomcat.svg
apache-tomcat-10.1.15/webapps/manager/index.jsp
apache-tomcat-10.1.15/webapps/manager/status.xsd
apache-tomcat-10.1.15/webapps/manager/xform.xsl
apache-tomcat-10.1.15/bin/catalina.sh
apache-tomcat-10.1.15/bin/ciphers.sh
apache-tomcat-10.1.15/bin/configtest.sh
apache-tomcat-10.1.15/bin/daemon.sh
apache-tomcat-10.1.15/bin/digest.sh
apache-tomcat-10.1.15/bin/makebase.sh
apache-tomcat-10.1.15/bin/migrate.sh
apache-tomcat-10.1.15/bin/setclasspath.sh
apache-tomcat-10.1.15/bin/shutdown.sh
apache-tomcat-10.1.15/bin/startup.sh
apache-tomcat-10.1.15/bin/tool-wrapper.sh
apache-tomcat-10.1.15/bin/version.sh
[ec2-user@ip-172-31-44-121 ~]$ ls
apache-tomcat-10.1.15.tar.gz
[ec2-user@ip-172-31-44-121 ~]$ sudo ln -s /usr/share/apache-tomcat-10.1.15/ /usr/share/tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo chown -R tomcat:tomcat /usr/share/tomcat
[ec2-user@ip-172-31-44-121 ~]$ sudo chown -R tomcat:tomcat /usr/share/apache-tomcat-10.1.15/
[ec2-user@ip-172-31-44-121 ~]$ cd /usr/share
[ec2-user@ip-172-31-44-121 share]$ ls -lrt
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

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```

RDS | us-east-1 | Launch an instance | EC2 | us-east-1 | Instances | EC2 | us-east-1 | EC2 Instance Connect | us-east-1 | Apache Tomcat® - Apache Tomcat 10 | - | X
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user... | VPN | N. Virginia | Gooda Sai Koushik Sarma
aws Services Search [Alt+S]
drwxr-xr-x 2 root root 4096 Nov 1 20:24 nano
drwxr-xr-x 2 root root 4096 Nov 1 20:24 info
drwxr-xr-x 2 root root 38 Nov 1 20:24 dict
drwxr-xr-x 47 root root 4096 Nov 1 20:24 man
drwxr-xr-x 14 root root 4096 Nov 1 20:25 mime
drwxr-xr-x 3 root root 24 Nov 4 10:25 fontconfig
drwxr-xr-x 3 root root 33 Nov 4 10:25 fonts
drwxr-xr-x 3 root root 24 Nov 4 10:25 xml
drwxr-xr-x 2 root root 37 Nov 4 10:25 maven-fragments
drwxr-xr-x 2 root root 158 Nov 4 10:25 java-utilities
drwxr-xr-x 7 root root 93 Nov 4 10:25 alsa
drwxr-xr-x 2 root root 23 Nov 4 10:25 libthai
drwxr-xr-x 2 root root 39 Nov 4 10:25 aclocal
drwxr-xr-x 5 root root 50 Nov 4 10:25 icons
drwxr-xr-x 2 root root 22 Nov 4 10:25 javazl-1.8
drwxr-xr-x 13 root root 4096 Nov 4 10:25 javazl
drwxr-xr-x 5 root root 44 Nov 4 10:25 log4j-cve-2021-44228-hotpatch
drwxr-xr-x 2 root root 48 Nov 4 10:25 thumbnailers
drwxr-xr-x 3 root root 26 Nov 4 10:25 glvnd
drwxr-xr-x 3 root root 37 Nov 4 10:25 egl
drwxr-xr-x 103 root root 4096 Nov 4 10:25 licenses
drwxr-xr-x 5 root root 49 Nov 4 10:25 themes
drwxr-xr-x 2 root root 132 Nov 4 10:25 applications
drwxr-xr-x 5 root root 69 Nov 4 10:26 X11
drwxr-xr-x 385 root root 12288 Nov 4 10:26 doc
drwxr-xr-x 9 tomcat tomcat 220 Nov 4 10:31 apache-tomcat-10.1.15
lrwxrwxrwx 1 tomcat tomcat 33 Nov 4 10:33 tomcat -> /usr/share/apache-tomcat-10.1.15/
[ec2-user@ip-172-31-44-121 share]$

```

i-06d5b6012cfaca18b (SDPCE2Deploy)
 Public IPs: 3.81.49.161 Private IPs: 172.31.44.121

You can see Tomcat Listed in the list of Directories.

Now use below lines at a time.

```
sudo tee /etc/systemd/system/tomcat.service<<EOF
```

```
[Unit]
```

```
Description=Tomcat Server
```

```
After=syslog.target network.target
```

```
[Service]
```

```
Type=forking
```

```
User=tomcat
```

```
Group=tomcat
```

```
Environment=JAVA_HOME=/usr/lib/jvm/jre
```

```
Environment='JAVA_OPTS=-Djava.awt.headless=true'
```

```
Environment=CATALINA_HOME=/usr/share/tomcat
```

```
Environment=CATALINA_BASE=/usr/share/tomcat
```

```
Environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
```

```
Environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
```

```
ExecStart=/usr/share/tomcat/bin/catalina.sh start
```

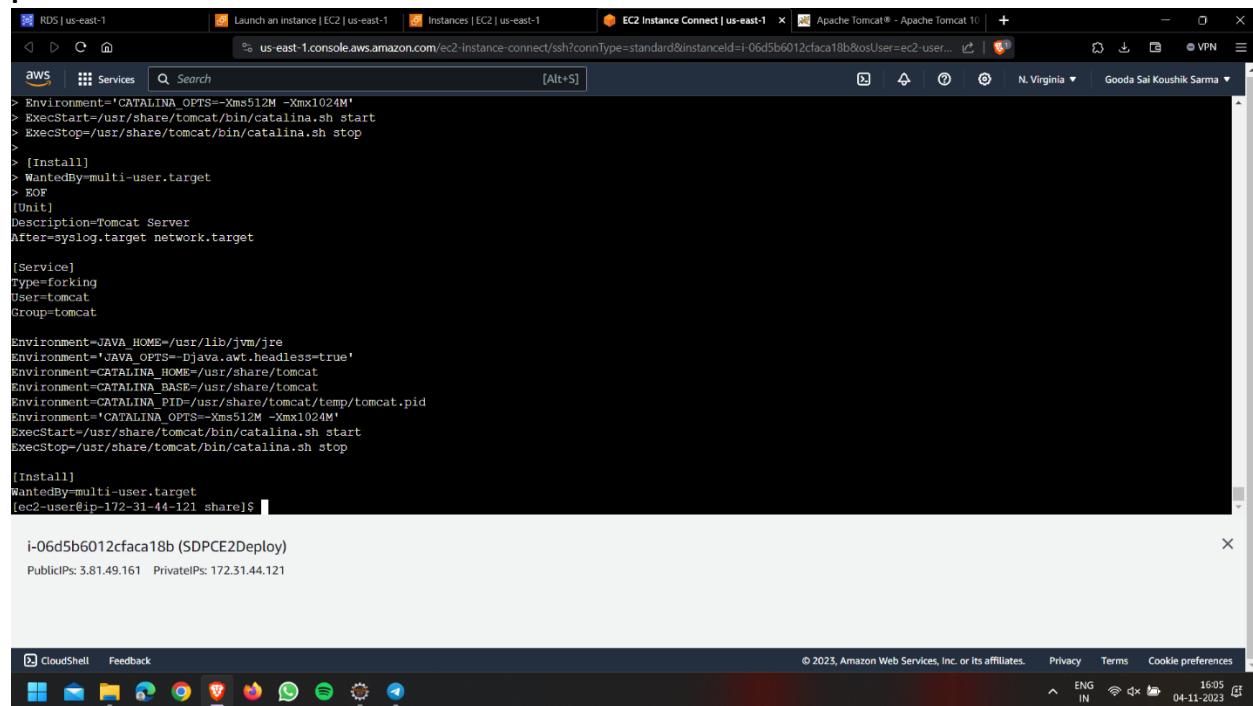
```
ExecStop=/usr/share/tomcat/bin/catalina.sh stop
```

[Install]

WantedBy=multi-user.target

EOF

paste this code and click Enter



```
Environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop
> [Install]
> WantedBy=multi-user.target
> EOF
[Unit]
Description=Tomcat Server
After=syslog.target network.target

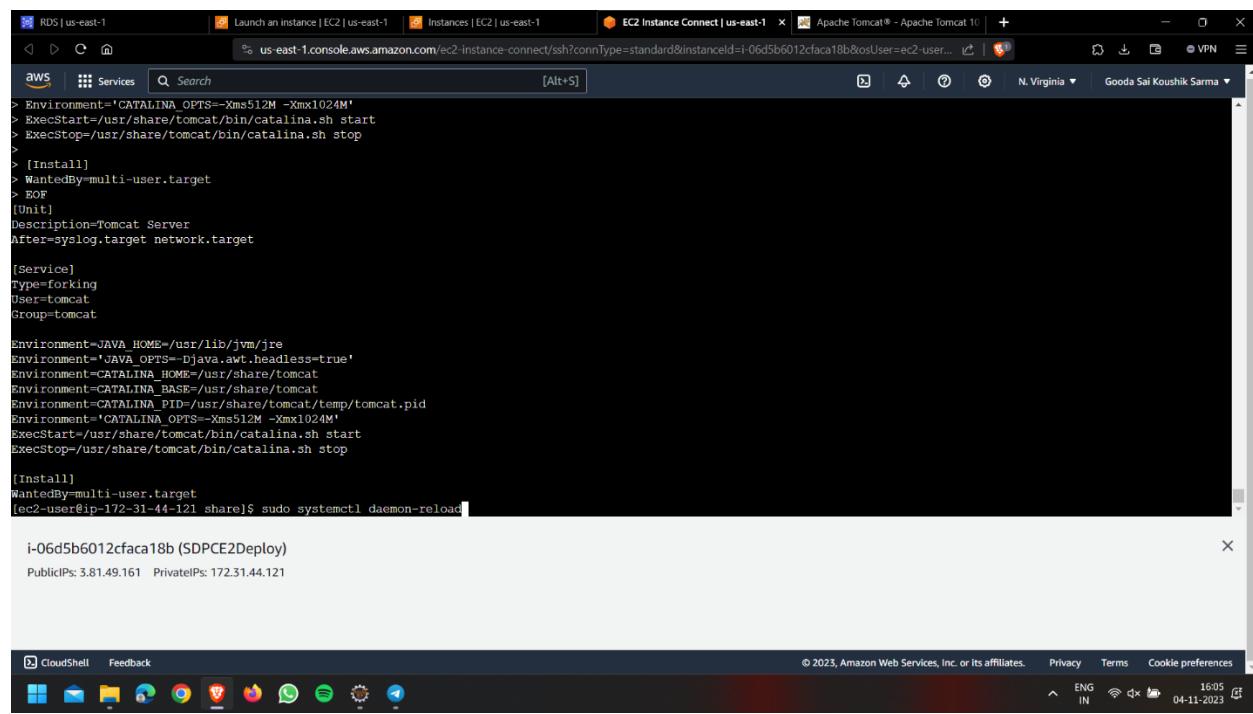
[Service]
Type=forking
User=tomcat
Group=tomcat

Environment=JAVA_HOME=/usr/lib/jvm/jre
Environment='JAVA_OPTS=-Djava.awt.headless=true'
Environment=CATALINA_HOME=/usr/share/tomcat
Environment=CATALINA_BASE=/usr/share/tomcat
Environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
Environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

[Install]
WantedBy=multi-user.target
[ec2-user@ip-172-31-44-121 share]$
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

→ sudo systemctl daemon-reload



```
Environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop
> [Install]
> WantedBy=multi-user.target
> EOF
[Unit]
Description=Tomcat Server
After=syslog.target network.target

[Service]
Type=forking
User=tomcat
Group=tomcat

Environment=JAVA_HOME=/usr/lib/jvm/jre
Environment='JAVA_OPTS=-Djava.awt.headless=true'
Environment=CATALINA_HOME=/usr/share/tomcat
Environment=CATALINA_BASE=/usr/share/tomcat
Environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
Environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

[Install]
WantedBy=multi-user.target
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

Signature

```
RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1 Apache Tomcat® - Apache Tomcat 10
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user... VPN
aws Services Search [Alt+S]
> ExecStart=/usr/share/tomcat/bin/catalina.sh start
> ExecStop=/usr/share/tomcat/bin/catalina.sh stop
>
> [Install]
> WantedBy=multi-user.target
> EOF
[Unit]
Description=Tomcat Server
After=syslog.target network.target

[Service]
Type=forking
User=tomcat
Group=tomcat

Environment=JAVA_HOME=/usr/lib/jvm/jre
Environment='JAVA_OPTS=-Djava.awt.headless=true'
Environment=CATALINA_HOME=/usr/share/tomcat
Environment=CATALINA_BASE=/usr/share/tomcat
Environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
Environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

[Install]
WantedBy=multi-user.target
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-44-121 share]$ 

i-06d5b6012cfaca18b (SDPCE2Deploy)
Public IPs: 3.81.49.161 Private IPs: 172.31.44.121

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```

→ sudo systemctl start tomcat

```
RDS | us-east-1 Launch an instance | EC2 | us-east-1 Instances | EC2 | us-east-1 EC2 Instance Connect | us-east-1 Apache Tomcat® - Apache Tomcat 10
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user... VPN
aws Services Search [Alt+S]
> ExecStart=/usr/share/tomcat/bin/catalina.sh start
> ExecStop=/usr/share/tomcat/bin/catalina.sh stop
>
> [Install]
> WantedBy=multi-user.target
> EOF
[Unit]
Description=Tomcat Server
After=syslog.target network.target

[Service]
Type=forking
User=tomcat
Group=tomcat

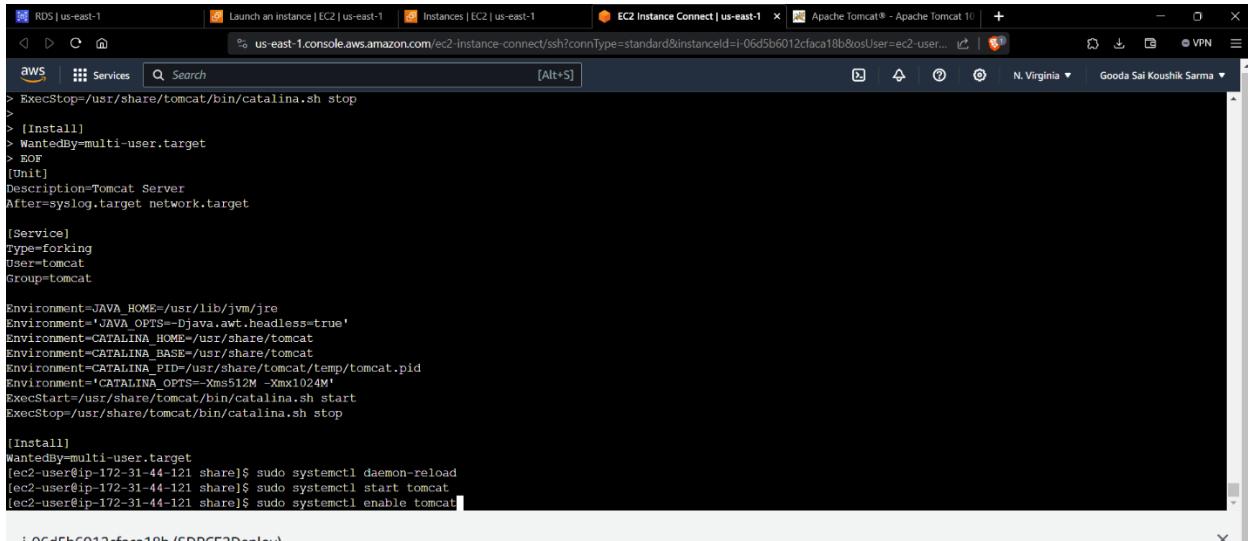
Environment=JAVA_HOME=/usr/lib/jvm/jre
Environment='JAVA_OPTS=-Djava.awt.headless=true'
Environment=CATALINA_HOME=/usr/share/tomcat
Environment=CATALINA_BASE=/usr/share/tomcat
Environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
Environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

[Install]
WantedBy=multi-user.target
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl start tomcat

i-06d5b6012cfaca18b (SDPCE2Deploy)
Public IPs: 3.81.49.161 Private IPs: 172.31.44.121

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```

→ sudo systemctl enable tomcat



```
> ExecStop=/usr/share/tomcat/bin/catalina.sh stop
>
> [Install]
> WantedBy=multi-user.target
> EOF
[Unit]
Description=Tomcat Server
After=syslog.target network.target

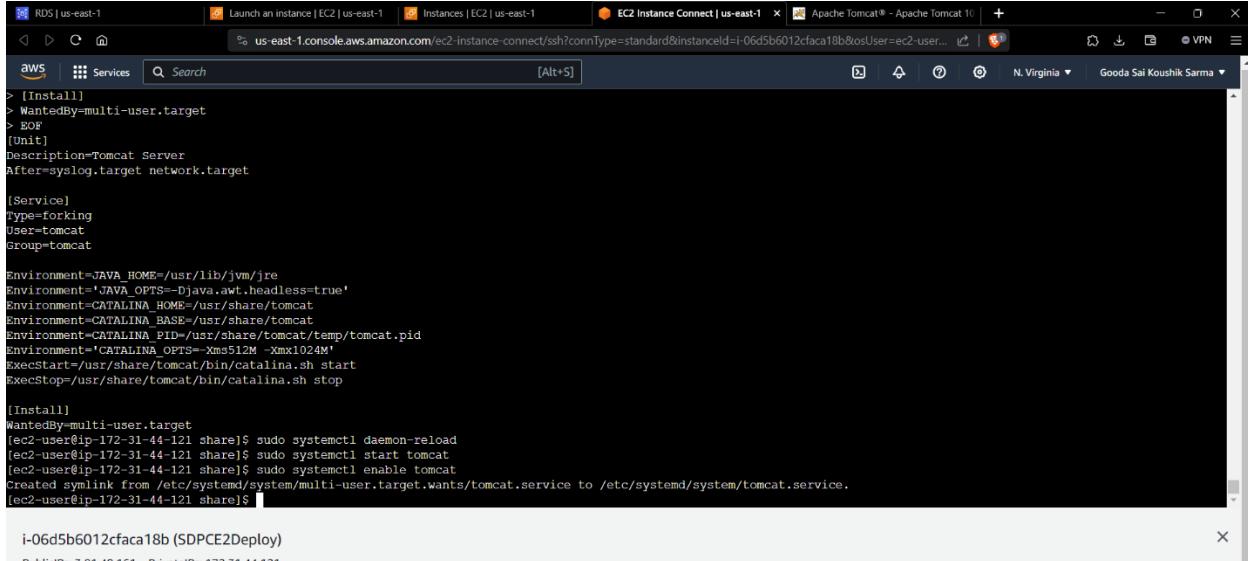
[Service]
Type=forking
User=tomcat
Group=tomcat

Environment=JAVA_HOME=/usr/lib/jvm/jre
Environment='JAVA_OPTS=-Djava.awt.headless=true'
Environment=CATALINA_HOME=/usr/share/tomcat
Environment=CATALINA_BASE=/usr/share/tomcat
Environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
Environment='CATALINA_OPTS=-Xms512m -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

[Install]
WantedBy=multi-user.target
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl start tomcat
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl enable tomcat
```

i-06d5b6012cfaca18b (SDPCE2Deploy)

PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



```
> [Install]
> WantedBy=multi-user.target
> EOF
[Unit]
Description=Tomcat Server
After=syslog.target network.target

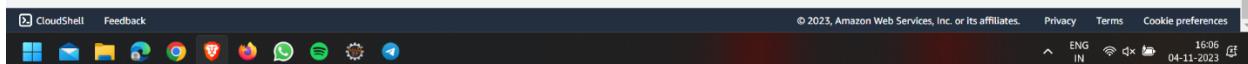
[Service]
Type=forking
User=tomcat
Group=tomcat

Environment=JAVA_HOME=/usr/lib/jvm/jre
Environment='JAVA_OPTS=-Djava.awt.headless=true'
Environment=CATALINA_HOME=/usr/share/tomcat
Environment=CATALINA_BASE=/usr/share/tomcat
Environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
Environment='CATALINA_OPTS=-Xms512m -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

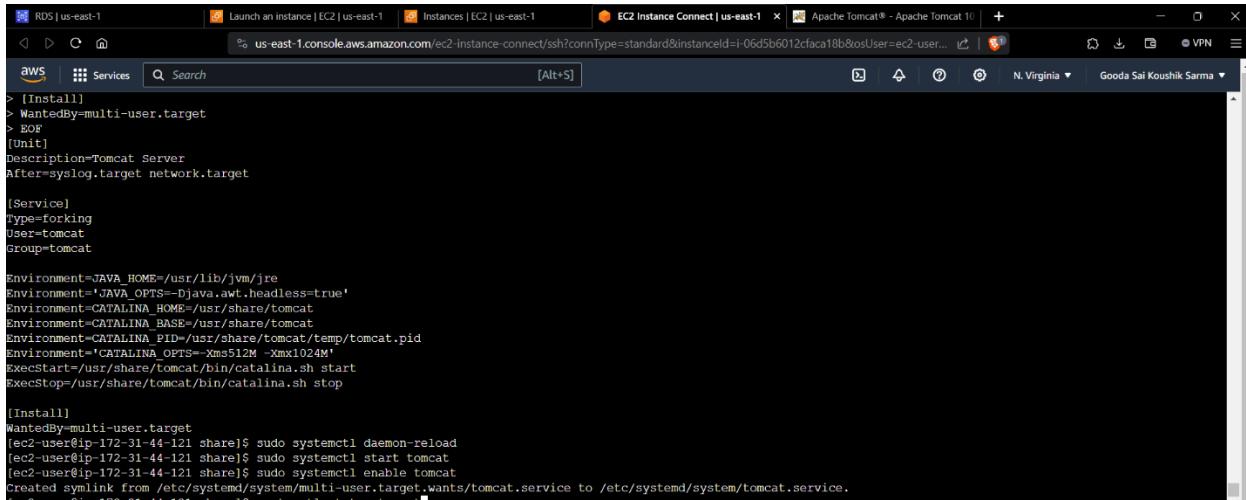
[Install]
WantedBy=multi-user.target
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl start tomcat
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl enable tomcat
Created symlink from /etc/systemd/system/multi-user.target.wants/tomcat.service to /etc/systemd/system/tomcat.service.
[ec2-user@ip-172-31-44-121 share]$
```

i-06d5b6012cfaca18b (SDPCE2Deploy)

PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



→ **systemctl status tomcat**



```
> [Install]
> WantedBy=multi-user.target
> EOF
[Unit]
Description=Tomcat Server
After=syslog.target network.target

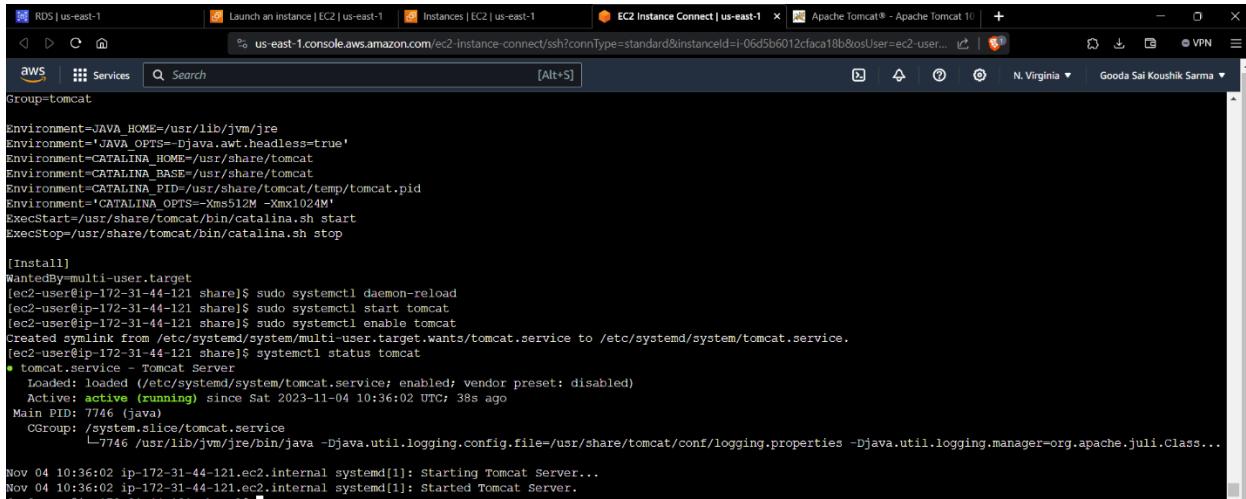
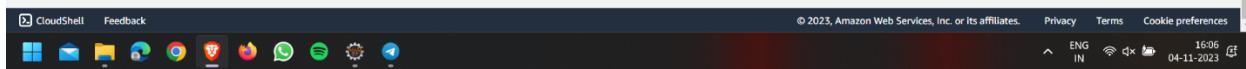
[Service]
Type=forking
User=tomcat
Group=tomcat

Environment=JAVA_HOME=/usr/lib/jvm/jre
Environment='JAVA_OPTS=-Djava.awt.headless=true'
Environment=CATALINA_HOME=/usr/share/tomcat
Environment=CATALINA_BASE=/usr/share/tomcat
Environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
Environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

[Install]
WantedBy=multi-user.target
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl start tomcat
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl enable tomcat
Created symlink from /etc/systemd/system/multi-user.target.wants/tomcat.service to /etc/systemd/system/tomcat.service.
[ec2-user@ip-172-31-44-121 share]$ systemctl status tomcat
```

i-06d5b6012cfaca18b (SDPCE2Deploy)

PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



```
Group=tomcat

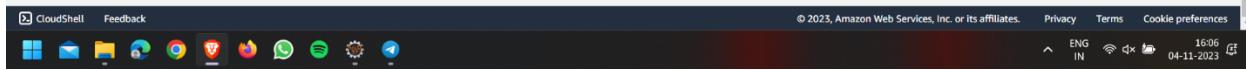
Environment=JAVA_HOME=/usr/lib/jvm/jre
Environment='JAVA_OPTS=-Djava.awt.headless=true'
Environment=CATALINA_HOME=/usr/share/tomcat
Environment=CATALINA_BASE=/usr/share/tomcat
Environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
Environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

[Install]
WantedBy=multi-user.target
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl start tomcat
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl enable tomcat
Created symlink from /etc/systemd/system/multi-user.target.wants/tomcat.service to /etc/systemd/system/tomcat.service.
[ec2-user@ip-172-31-44-121 share]$ systemctl status tomcat
● tomcat.service - Tomcat Server
   Loaded: loaded (/etc/systemd/system/tomcat.service; enabled; vendor preset: disabled)
   Active: active (running) since Sat 2023-11-04 10:36:02 UTC; 38s ago
     Main PID: 7746 (java)
        CGroup: /system.slice/tomcat.service
                  └─7746 /usr/lib/jvm/jre/bin/java -Djava.util.logging.config.file=/usr/share/tomcat/conf/logging.properties -Djava.util.logging.manager=org.apache.juli.Class...
```

Nov 04 10:36:02 ip-172-31-44-121.ec2.internal systemd[1]: Starting Tomcat Server...
Nov 04 10:36:02 ip-172-31-44-121.ec2.internal systemd[1]: Started Tomcat Server.
[ec2-user@ip-172-31-44-121 share]\$

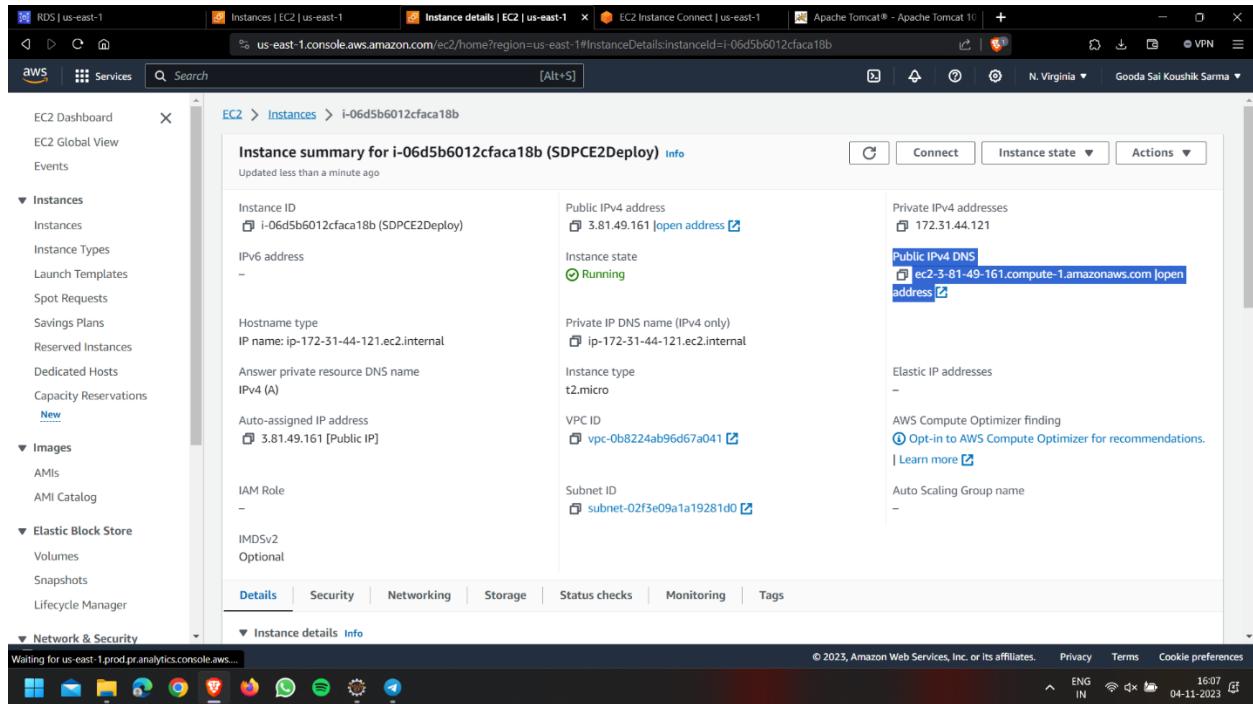
i-06d5b6012cfaca18b (SDPCE2Deploy)

PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

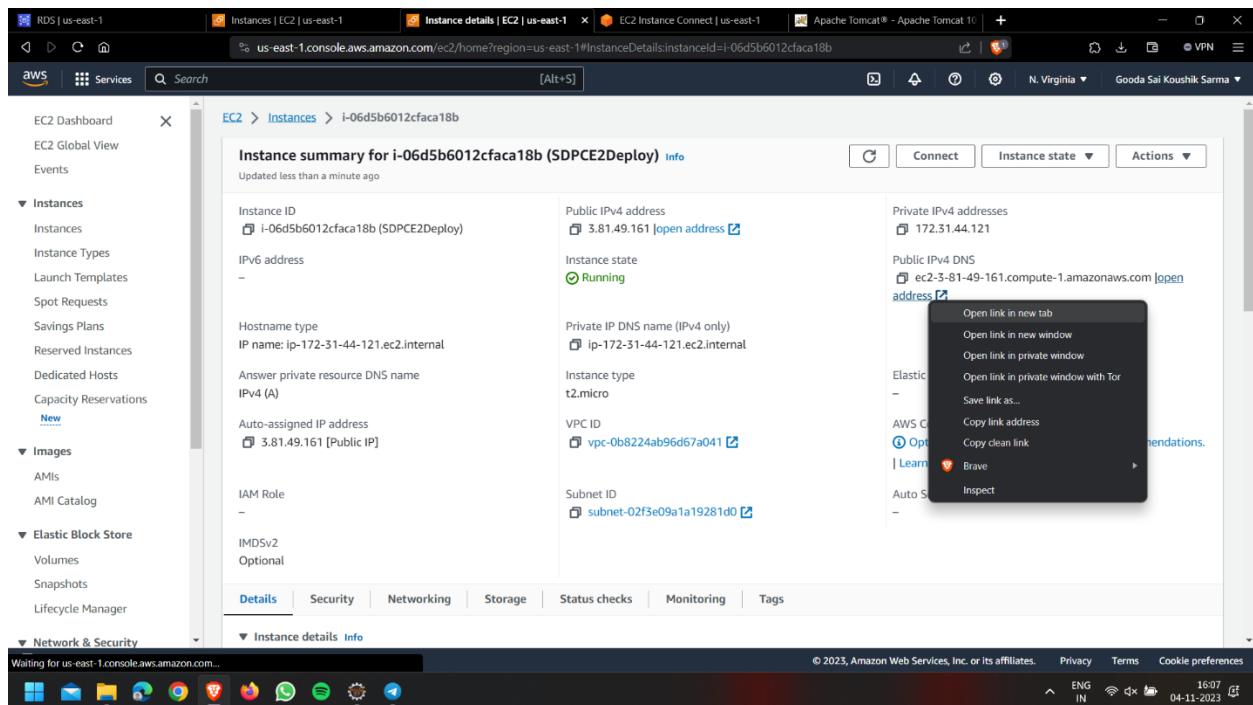


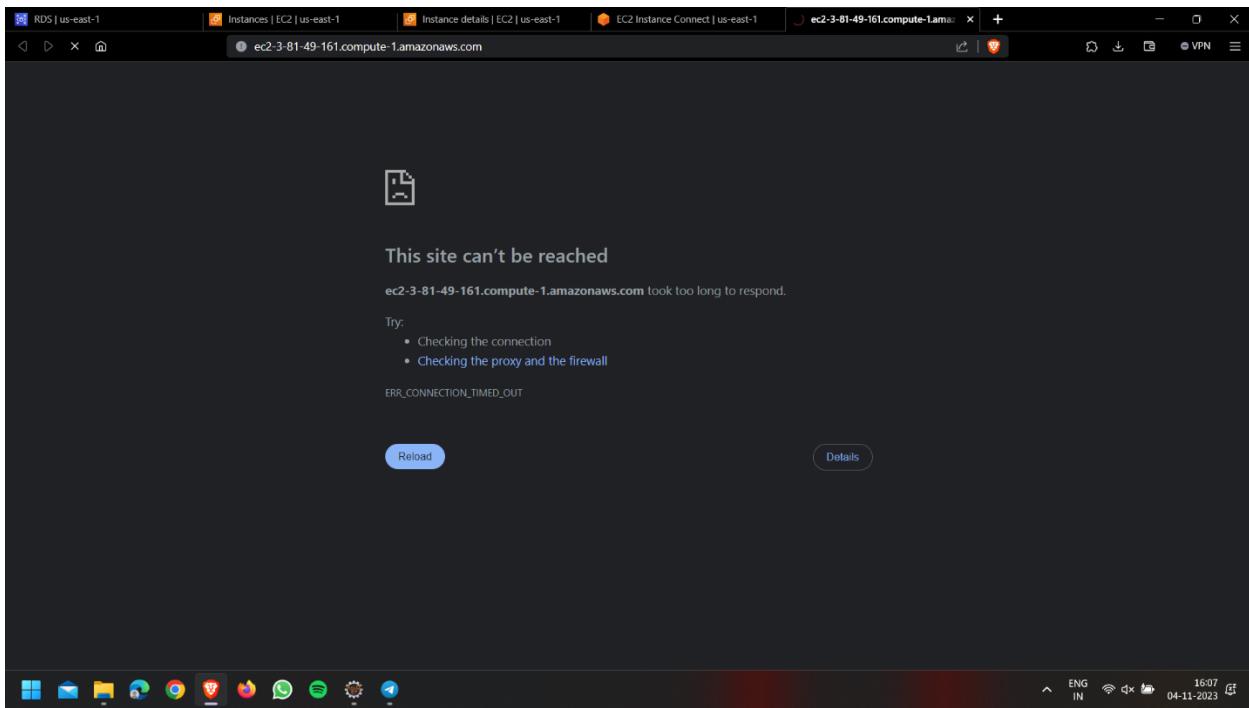
Tomcat by default runs on port 8080. So now go on to your AWS EC2 Instance Summary Screen and get your Public IPv4 DNS.

Screenshot of the AWS EC2 Instances page showing the instance summary for i-06d5b6012cfaca18b. The instance is running and has a public IPv4 address of 3.81.49.161 and a private IPv4 address of 172.31.44.121. The instance type is t2.micro, and it is associated with a VPC ID of vpc-0b8224ab96d67a041. The instance is part of a subnet subnet-02f3e09a1a19281d0.

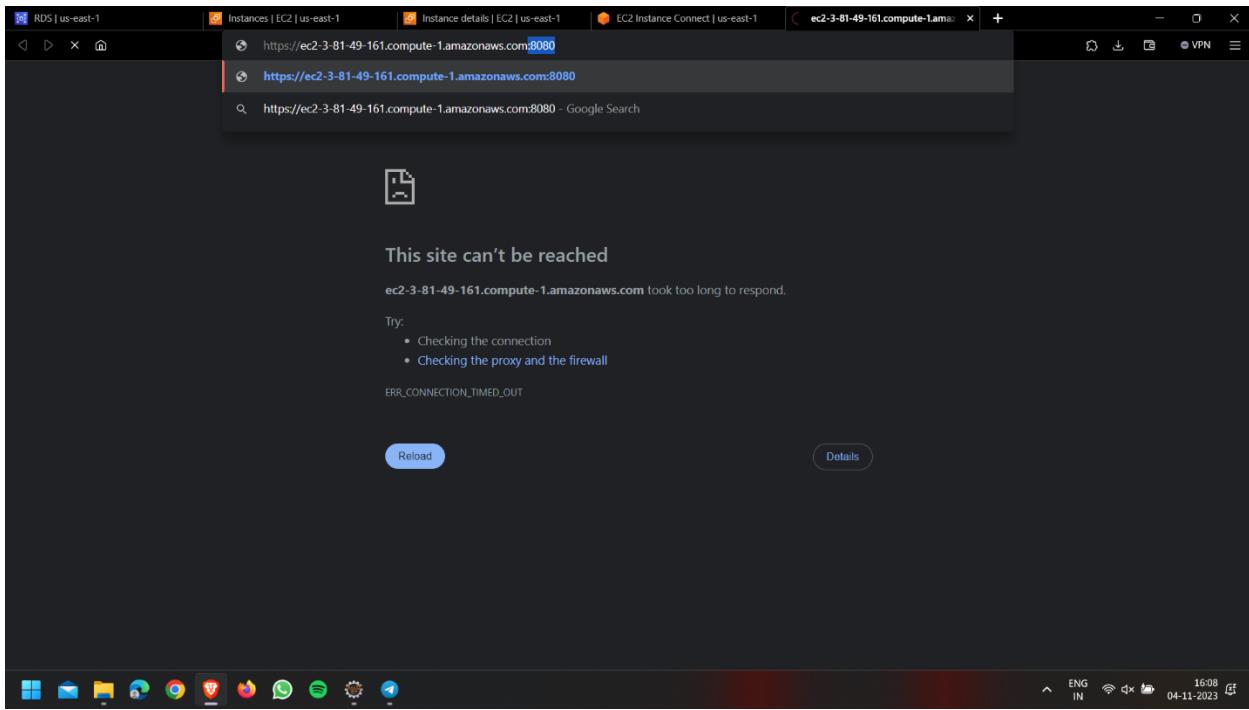


Screenshot of the AWS EC2 Instances page showing the instance summary for i-06d5b6012cfaca18b. The instance is running and has a public IPv4 address of 3.81.49.161 and a private IPv4 address of 172.31.44.121. The instance type is t2.micro, and it is associated with a VPC ID of vpc-0b8224ab96d67a041. The instance is part of a subnet subnet-02f3e09a1a19281d0. A context menu is open over the public IPv4 address 3.81.49.161, showing options such as 'Open link in new tab', 'Open link in new window', 'Open link in private window', 'Open link in private window with Tor', 'Save link as...', 'Copy link address', 'Copy clean link', and 'Inspect'.

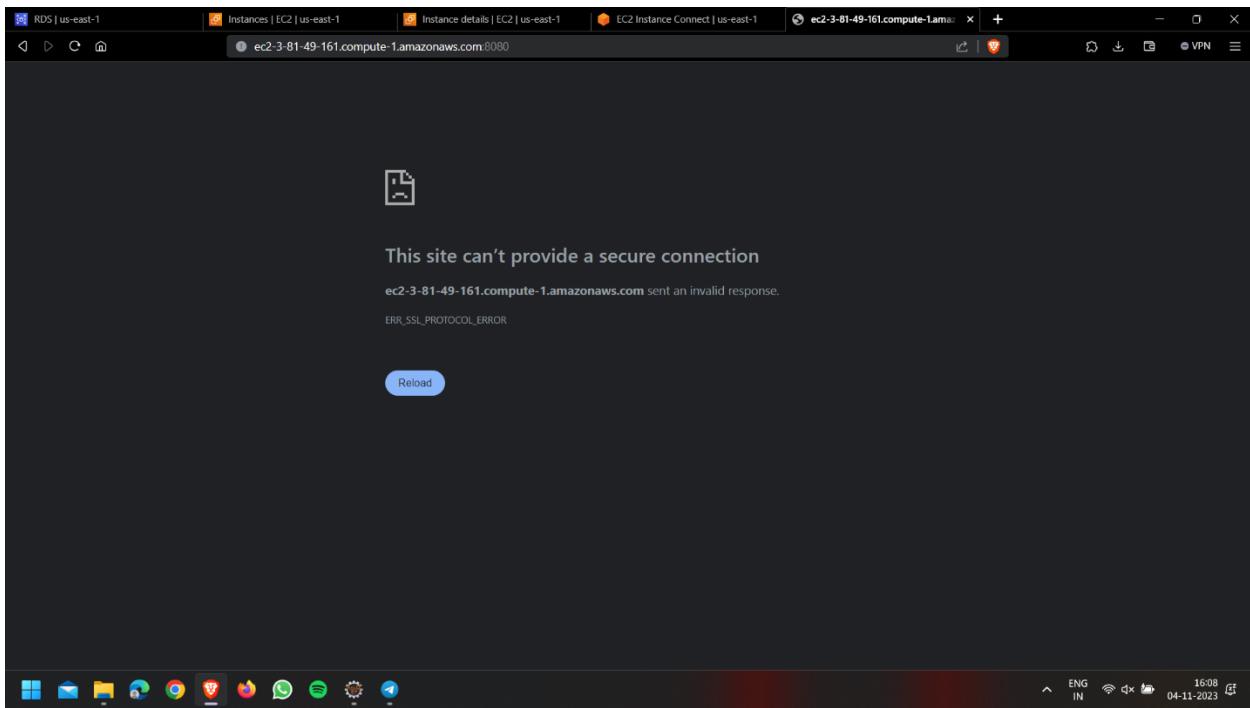




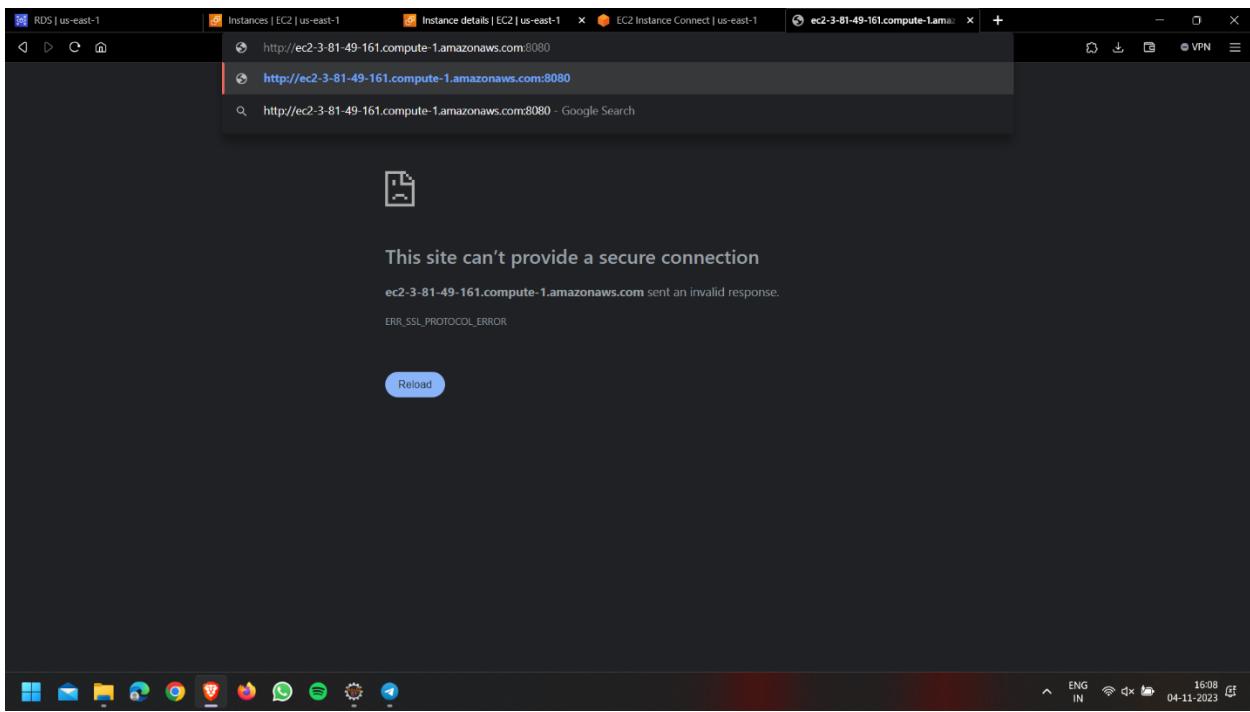
Add “:8080” to the URL like below and Click **Enter**.



Suraj

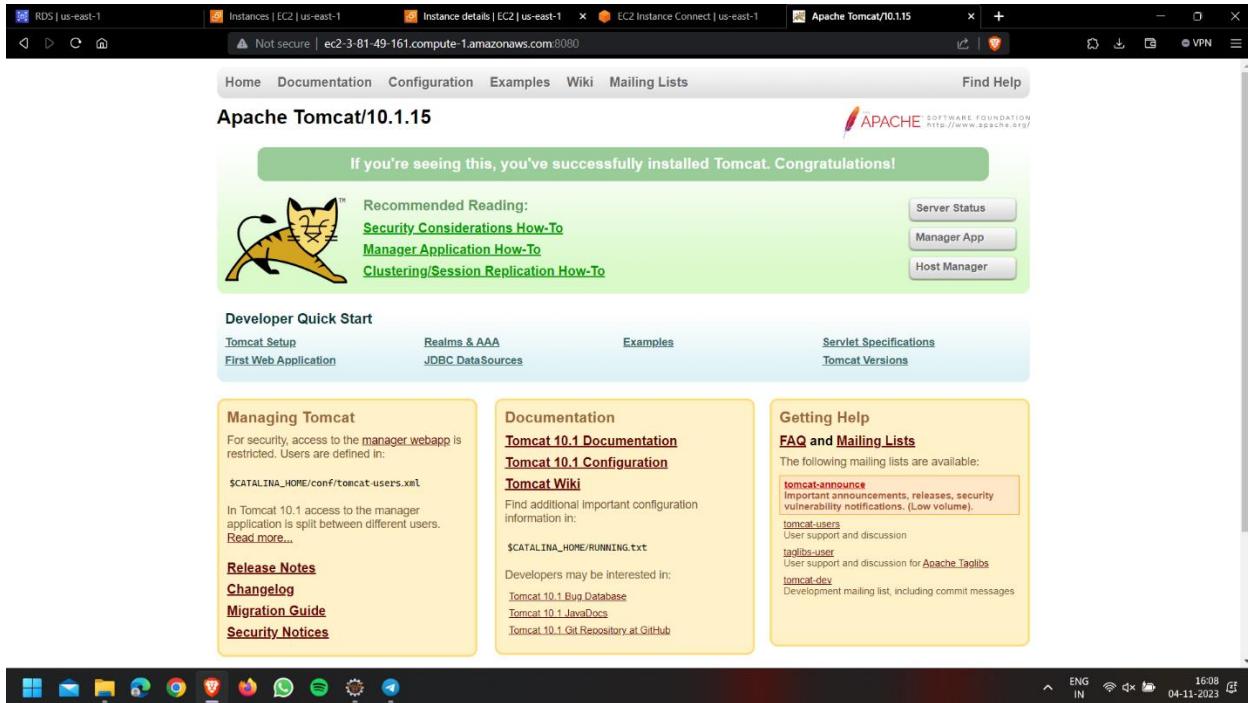


Now Remove "s" from https in the URL like below and Click **Enter**.



Suraj

You should see **Apache Tomcat** Loaded Successfully.



→ sudo vim /usr/share/tomcat/conf/tomcat-users.xml

RDS | us-east-1 Instances | EC2 | us-east-1 Instance details | EC2 | us-east-1 EC2 Instance Connect | us-east-1 Apache Tomcat/10.1.15 - VPN

aws Services Search [Alt+S] N. Virginia Gooda Sai Koushik Sarma

```
Group=tomcat

Environment=JAVA_HOME=/usr/lib/jvm/jre
Environment=JAVA_OPTS=-Djava.awt.headless=true
Environment=CATALINA_HOME=/usr/share/tomcat
Environment=CATALINA_BASE=/usr/share/tomcat
Environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
Environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

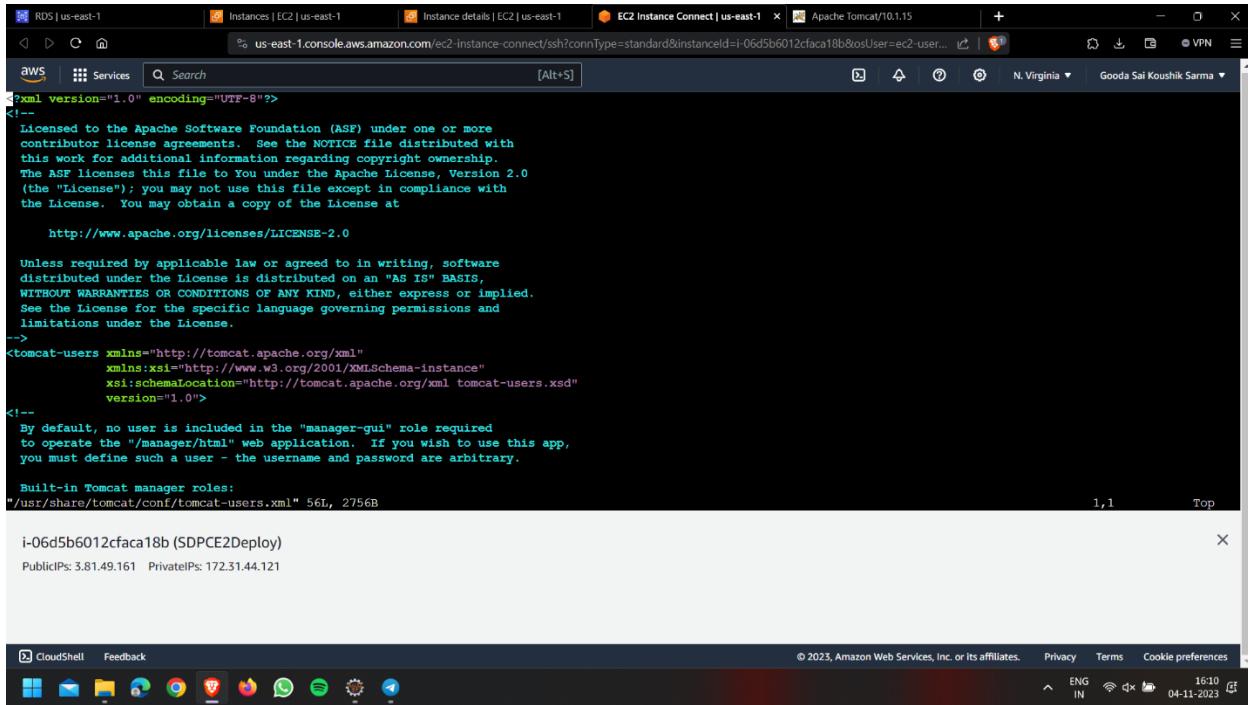
[Install]
WantedBy=multi-user.target

[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl start tomcat
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl enable tomcat
Created symlink from /etc/systemd/system/multi-user.target.wants/tomcat.service to /etc/systemd/system/tomcat.service.
[ec2-user@ip-172-31-44-121 share]$ systemctl status tomcat
● tomcat.service - Tomcat Server
   Loaded: loaded (/etc/systemd/system/tomcat.service; enabled; vendor preset: disabled)
   Active: active (running) since Sat 2023-11-04 10:36:02 UTC; 38s ago
     Main PID: 7746 (java)
    CGroup: /system.slice/tomcat.service
           └─7746 /usr/lib/jvm/jre/bin/java -Djava.util.logging.config.file=/usr/share/tomcat/conf/logging.properties -Djava.util.logging.manager=org.apache.juli.Class...[redacted]

Nov 04 10:36:02 ip-172-31-44-121.ec2.internal systemd[1]: Starting Tomcat Server...
Nov 04 10:36:02 ip-172-31-44-121.ec2.internal systemd[1]: Started Tomcat Server.
[ec2-user@ip-172-31-44-121 share]$ sudo vim /usr/share/tomcat/conf/tomcat-users.xml
```

Francesca

Click “i” to go into INSERT MODE.

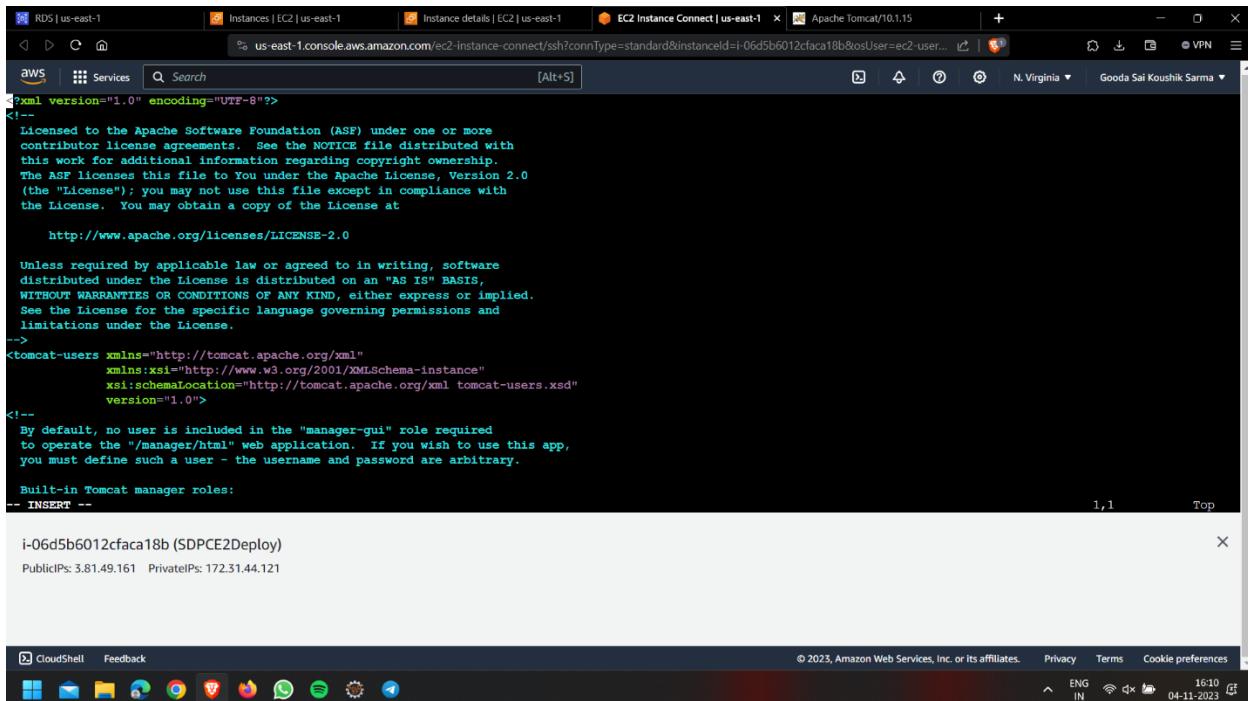


```
xml version="1.0" encoding="UTF-8"?>
<!--
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contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at

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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<tomcat-users xmlns="http://tomcat.apache.org/xml"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemalocation="http://tomcat.apache.org/xml tomcat-users.xsd"
    version="1.0">
<!--
By default, no user is included in the "manager-gui" role required
to operate the "/manager/html" web application. If you wish to use this app,
you must define such a user - the username and password are arbitrary.

Built-in Tomcat manager roles:
-->
</tomcat-users>
i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121
```



```
xml version="1.0" encoding="UTF-8"?>
<!--
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contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

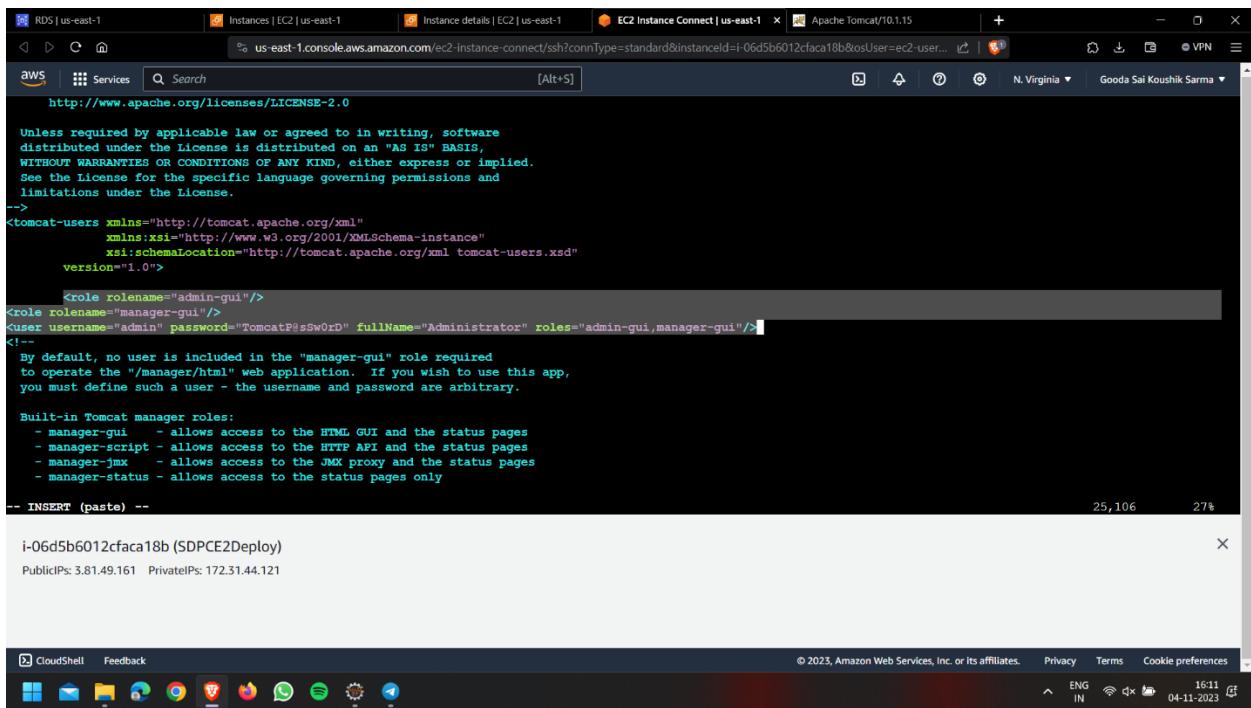
Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<tomcat-users xmlns="http://tomcat.apache.org/xml"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemalocation="http://tomcat.apache.org/xml tomcat-users.xsd"
    version="1.0">
<!--
By default, no user is included in the "manager-gui" role required
to operate the "/manager/html" web application. If you wish to use this app,
you must define such a user - the username and password are arbitrary.

Built-in Tomcat manager roles:
-- INSERT --
i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121
```

Place this Code After “tomcat-users” tag.

```
<role rolename="admin-gui"/>
<role rolename="manager-gui"/>
<user username="admin" password="TomcatP@sSw0rD" fullName="Administrator"
roles="admin-gui,manager-gui"/>
```

NOTE: You can change username and password accordingly.



```
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WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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limitations under the License.

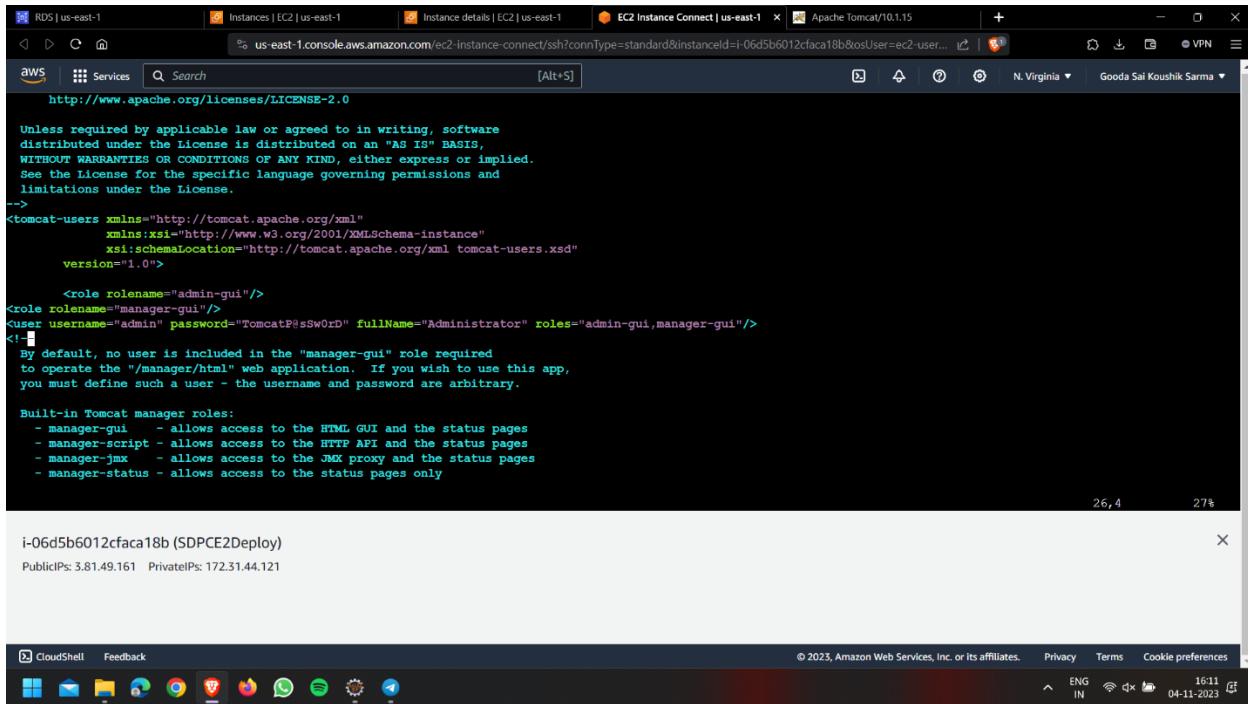
-->
<tomcat-users xmlns="http://tomcat.apache.org/xml"
               xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
               xsi:schemaLocation="http://tomcat.apache.org/xml tomcat-users.xsd"
               version="1.0">

    <role rolename="admin-gui"/>
    <role rolename="manager-gui"/>
    <user username="admin" password="TomcatP@sSw0rD" fullName="Administrator" roles="admin-gui,manager-gui"/>
<!--
    By default, no user is included in the "manager-gui" role required
    to operate the "/manager/html" web application. If you wish to use this app,
    you must define such a user - the username and password are arbitrary.

    Built-in Tomcat manager roles:
    - manager-gui - allows access to the HTML GUI and the status pages
    - manager-script - allows access to the HTTP API and the status pages
    - manager-jmx - allows access to the JMX proxy and the status pages
    - manager-status - allows access to the status pages only
-->
-- INSERT (paste) --
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
Public IPs: 3.81.49.161 Private IPs: 172.31.44.121

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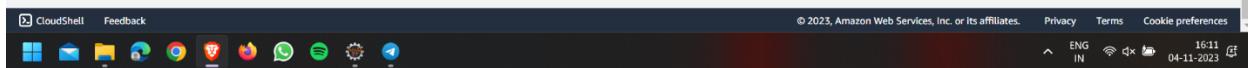
```
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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.

<!--
<tomcat-users xmlns="http://tomcat.apache.org/xml"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://tomcat.apache.org/xml tomcat-users.xsd"
    version="1.0">

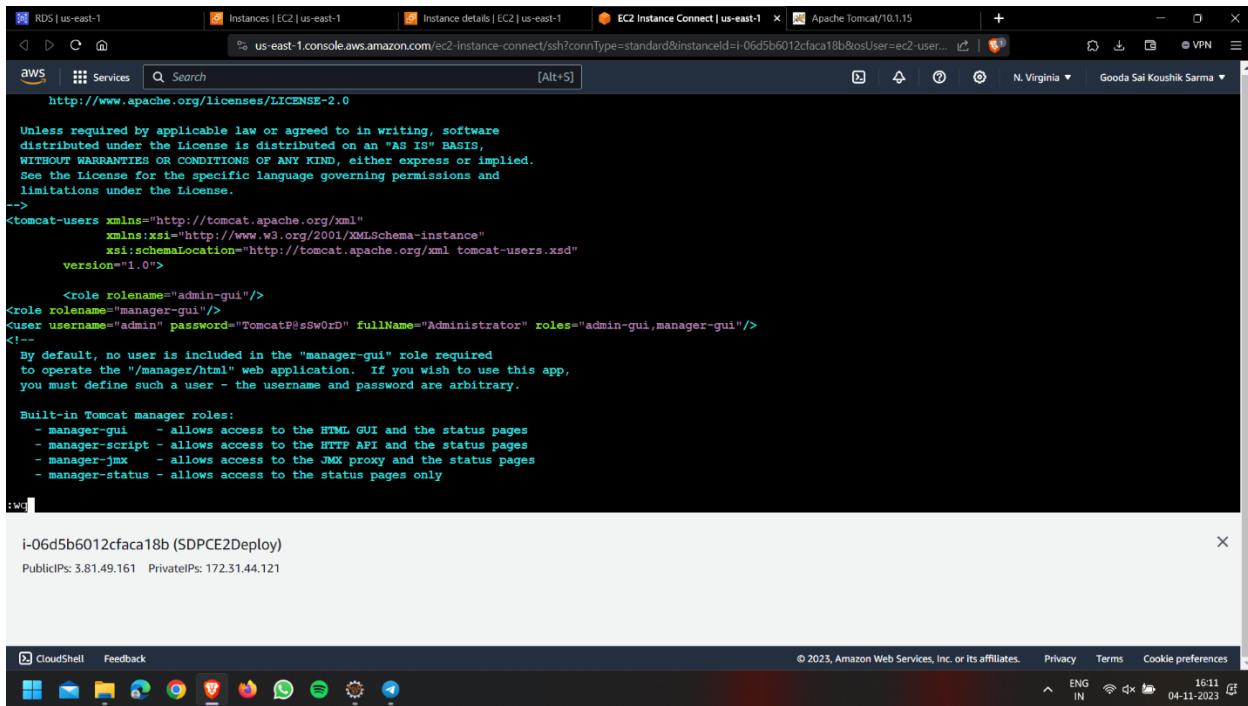
    <role rolename="admin-gui"/>
<role rolename="manager-gui"/>
<user username="admin" password="TomcatP@ssW0rD" fullName="Administrator" roles="admin-gui,manager-gui"/>
<!--
    By default, no user is included in the "manager-gui" role required
    to operate the "/manager/html" web application. If you wish to use this app,
    you must define such a user - the username and password are arbitrary.

    Built-in Tomcat manager roles:
    - manager-gui      - allows access to the HTML GUI and the status pages
    - manager-script   - allows access to the HTTP API and the status pages
    - manager-jmx      - allows access to the JMX proxy and the status pages
    - manager-status   - allows access to the status pages only
-->
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121



Once entered press Escape key to exit Insert mode and type in “:wq” and Click Enter.



```
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WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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limitations under the License.

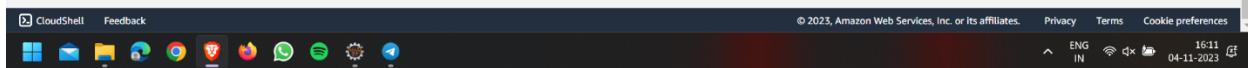
<!--
<tomcat-users xmlns="http://tomcat.apache.org/xml"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://tomcat.apache.org/xml tomcat-users.xsd"
    version="1.0">

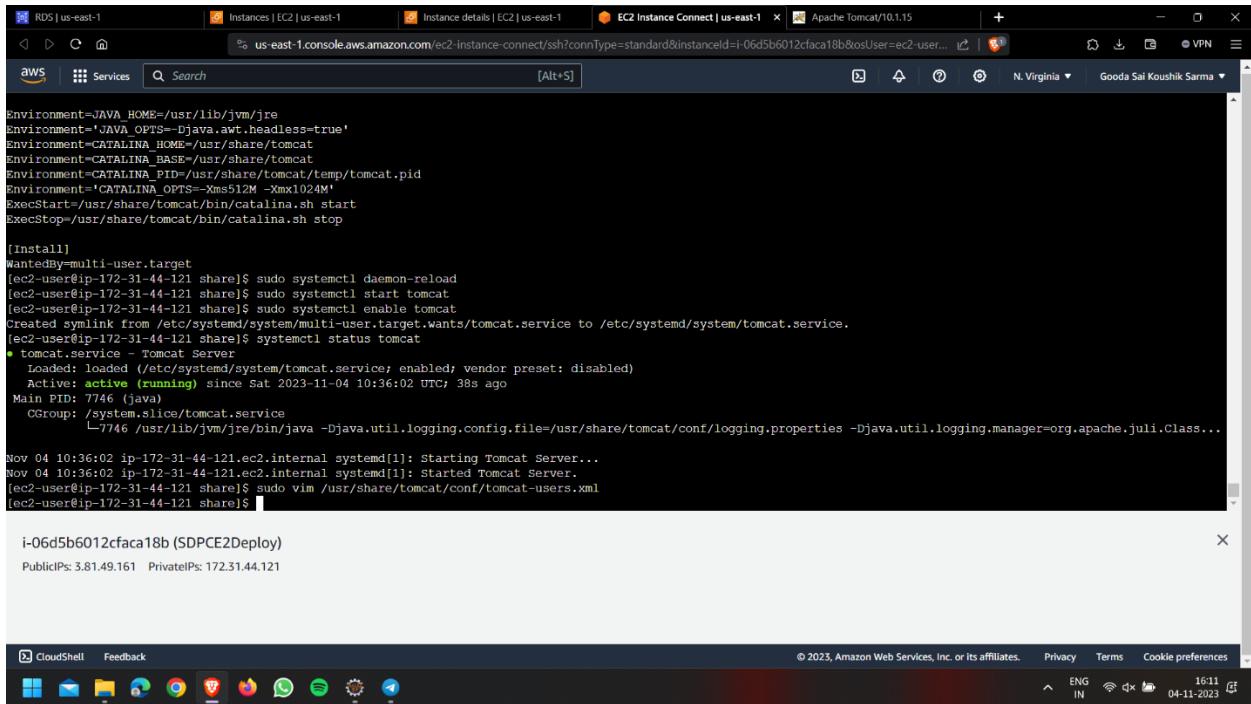
    <role rolename="admin-gui"/>
<role rolename="manager-gui"/>
<user username="admin" password="TomcatP@ssW0rD" fullName="Administrator" roles="admin-gui,manager-gui"/>
<!--
    By default, no user is included in the "manager-gui" role required
    to operate the "/manager/html" web application. If you wish to use this app,
    you must define such a user - the username and password are arbitrary.

    Built-in Tomcat manager roles:
    - manager-gui      - allows access to the HTML GUI and the status pages
    - manager-script   - allows access to the HTTP API and the status pages
    - manager-jmx      - allows access to the JMX proxy and the status pages
    - manager-status   - allows access to the status pages only
-->
```

:wq

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121





```

environment=JAVA_HOME=/usr/lib/jvm/jre
environment='JAVA_OPTS=-Djava.awt.headless=true'
environment=CATALINA_HOME=/usr/share/tomcat
environment=CATALINA_BASE=/usr/share/tomcat
environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

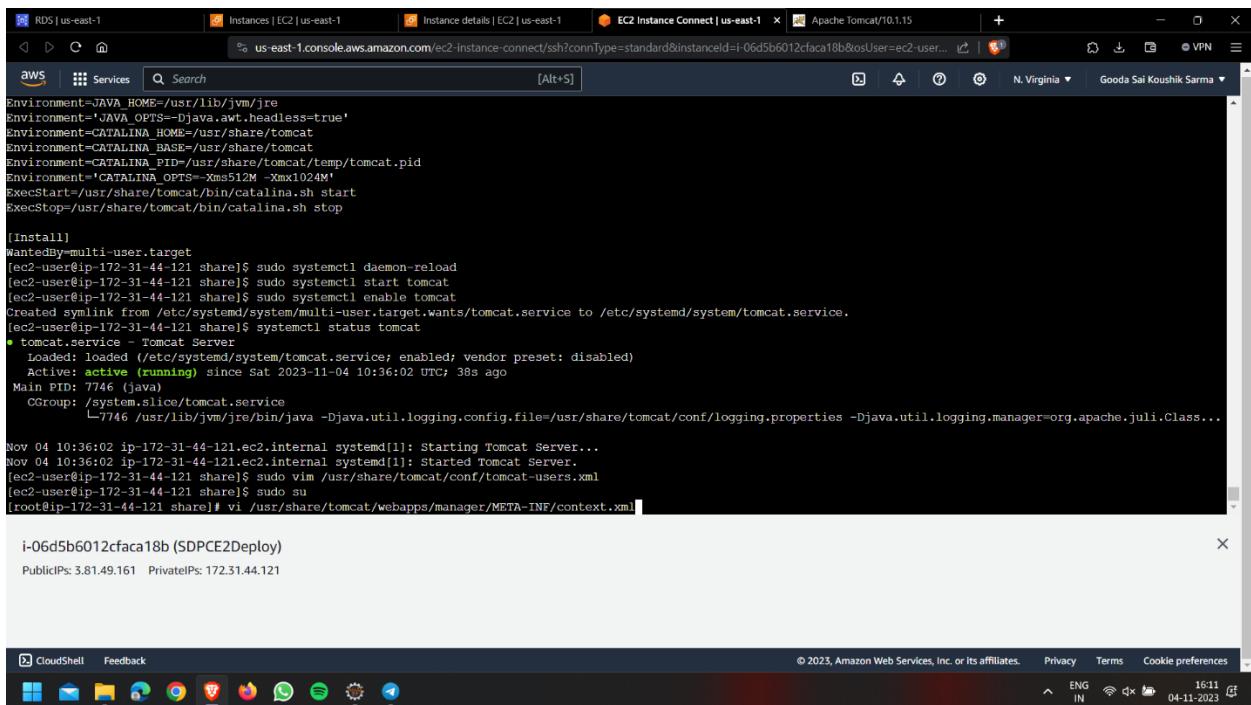
[Install]
WantedBy=multi-user.target
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl start tomcat
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl enable tomcat
Created symlink from /etc/systemd/system/multi-user.target.wants/tomcat.service to /etc/systemd/system/tomcat.service.
[ec2-user@ip-172-31-44-121 share]$ systemctl status tomcat
● tomcat.service - Tomcat Server
    Loaded: loaded (/etc/systemd/system/tomcat.service; enabled; vendor preset: disabled)
      Active: active (running) since Sat 2023-11-04 10:36:02 UTC; 38s ago
        Main PID: 7746 (java)
       CGroup: /system.slice/tomcat.service
              └─7746 /usr/lib/jvm/jre/bin/java -Djava.util.logging.config.file=/usr/share/tomcat/conf/logging.properties -Djava.util.logging.manager=org.apache.juli.Class...

Nov 04 10:36:02 ip-172-31-44-121.ec2.internal systemd[1]: Starting Tomcat Server...
Nov 04 10:36:02 ip-172-31-44-121.ec2.internal systemd[1]: Started Tomcat Server.
[ec2-user@ip-172-31-44-121 share]$ sudo vim /usr/share/tomcat/conf/tomcat-users.xml
[ec2-user@ip-172-31-44-121 share]$ 
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
Public IPs: 3.81.49.161 Private IPs: 172.31.44.121

→ sudo su

→ vi /usr/share/tomcat/webapps/manager/META-INF/context.xml



```

Environment=JAVA_HOME=/usr/lib/jvm/jre
environment='JAVA_OPTS=-Djava.awt.headless=true'
environment=CATALINA_HOME=/usr/share/tomcat
environment=CATALINA_BASE=/usr/share/tomcat
environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

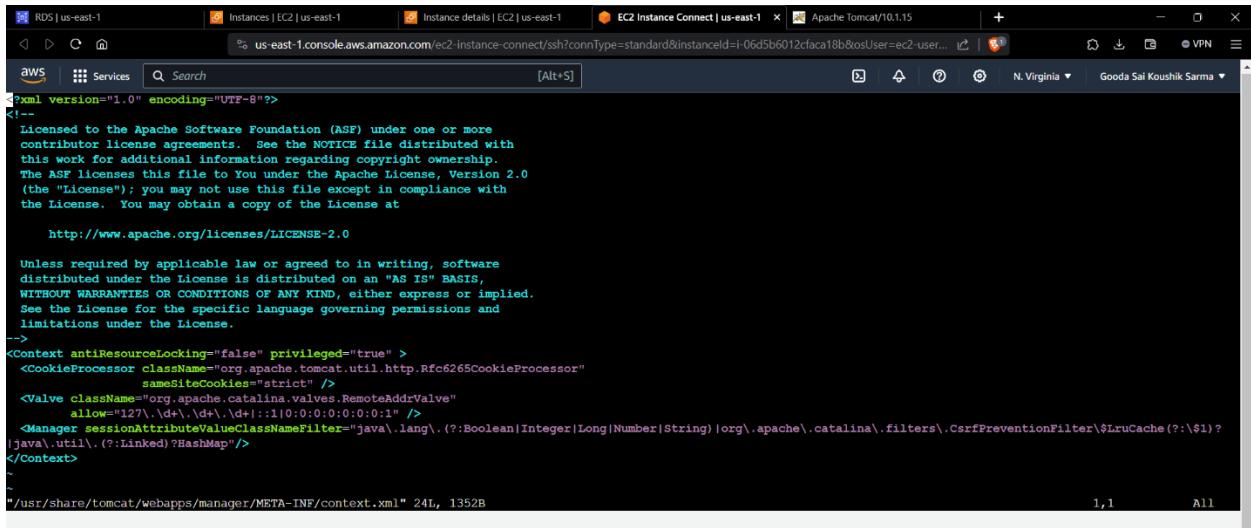
[Install]
WantedBy=multi-user.target
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl start tomcat
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl enable tomcat
Created symlink from /etc/systemd/system/multi-user.target.wants/tomcat.service to /etc/systemd/system/tomcat.service.
[ec2-user@ip-172-31-44-121 share]$ systemctl status tomcat
● tomcat.service - Tomcat Server
    Loaded: loaded (/etc/systemd/system/tomcat.service; enabled; vendor preset: disabled)
      Active: active (running) since Sat 2023-11-04 10:36:02 UTC; 38s ago
        Main PID: 7746 (java)
       CGroup: /system.slice/tomcat.service
              └─7746 /usr/lib/jvm/jre/bin/java -Djava.util.logging.config.file=/usr/share/tomcat/conf/logging.properties -Djava.util.logging.manager=org.apache.juli.Class...

Nov 04 10:36:02 ip-172-31-44-121.ec2.internal systemd[1]: Starting Tomcat Server...
Nov 04 10:36:02 ip-172-31-44-121.ec2.internal systemd[1]: Started Tomcat Server.
[ec2-user@ip-172-31-44-121 share]$ sudo vim /usr/share/tomcat/conf/tomcat-users.xml
[ec2-user@ip-172-31-44-121 share]$ sudo su
[root@ip-172-31-44-121 share]# vi /usr/share/tomcat/webapps/manager/META-INF/context.xml
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
Public IPs: 3.81.49.161 Private IPs: 172.31.44.121

Press the key "i" to enter Insert mode.

fsrjg



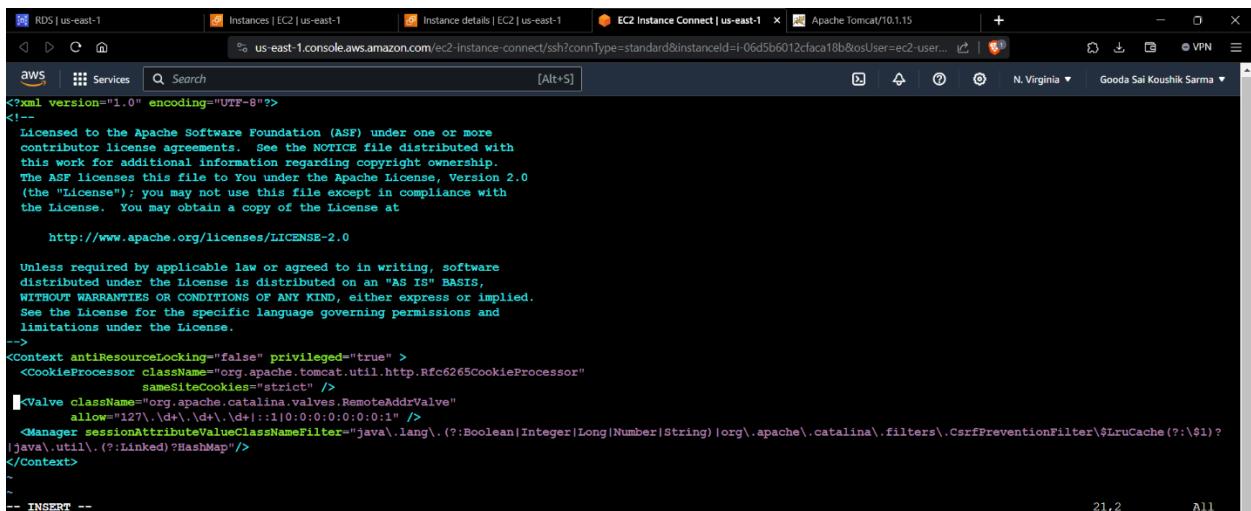
```
?xml version="1.0" encoding="UTF-8"?>
<!--
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contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at

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Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<Context antiResourceLocking="false" privileged="true" >
<CookieProcessor className="org.apache.tomcat.util.http.Rfc6265CookieProcessor"
    sameSiteCookies="strict" />
<Valve className="org.apache.catalina.valves.RemoteAddrValve"
    allow="127.\d{1,3}.\d{1,3}.\d{1,3}:\d{1,5}" />
<Manager sessionAttributeValueClassNameFilter="java.lang.(?>Boolean|Integer|Long|Number|String)|org.apache.catalina.filters.CsrfPreventionFilter\$LruCache(?>\$1)|java.util.(?>LinkedHashMap)" />
</Context>
<!--
-->

```

i-06d5b6012cfaca18b (SDPCE2Deploy)
Public IPs: 3.81.49.161 Private IPs: 172.31.44.121



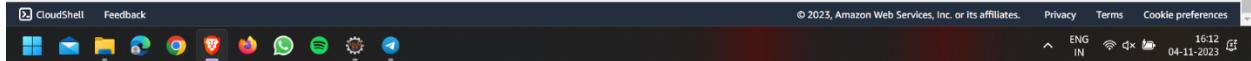
```
?xml version="1.0" encoding="UTF-8"?>
<!--
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contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
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http://www.apache.org/licenses/LICENSE-2.0

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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<Context antiResourceLocking="false" privileged="true" >
<CookieProcessor className="org.apache.tomcat.util.http.Rfc6265CookieProcessor"
    sameSiteCookies="strict" />
<Valve className="org.apache.catalina.valves.RemoteAddrValve"
    allow="127.\d{1,3}.\d{1,3}.\d{1,3}:\d{1,5}" />
<Manager sessionAttributeValueClassNameFilter="java.lang.(?>Boolean|Integer|Long|Number|String)|org.apache.catalina.filters.CsrfPreventionFilter\$LruCache(?>\$1)|java.util.(?>LinkedHashMap)" />
</Context>
<!--
-->

```

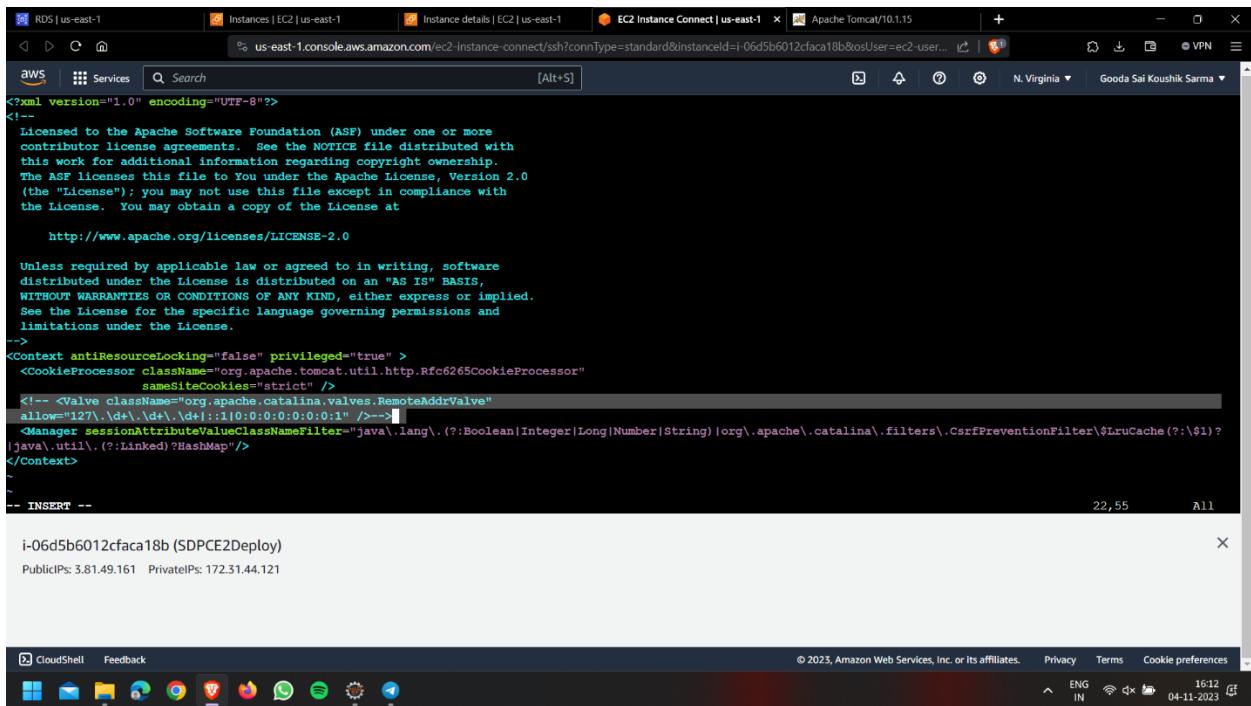
i-06d5b6012cfaca18b (SDPCE2Deploy)
Public IPs: 3.81.49.161 Private IPs: 172.31.44.121



Then comment out the valve tag in the xml using <!-- -->.

It should look like this.

```
<!-- <Valve className="org.apache.catalina.valves.RemoteAddrValve"
allow="127\\.\\d+\\.\\d+\\.\\d+|::1|0:0:0:0:0:0:1" /> -->
```



```
<?xml version="1.0" encoding="UTF-8"?>
<!--
Licensed to the Apache Software Foundation (ASF) under one or more
contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to you under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at

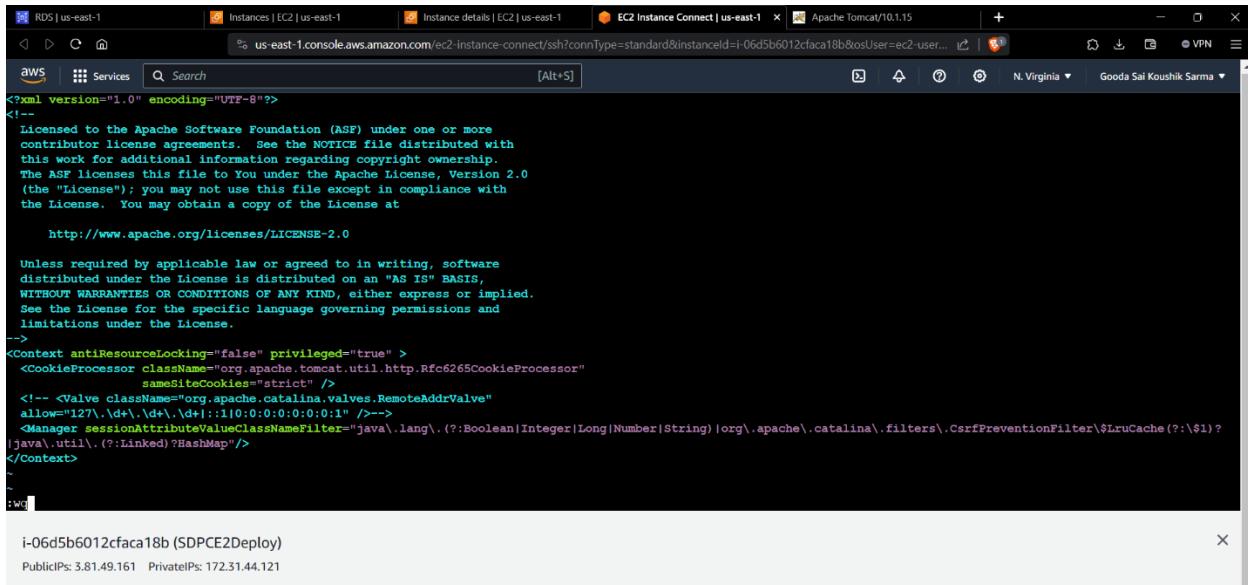
http://www.apache.org/licenses/LICENSE-2.0

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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<Context antiResourceLocking="false" privileged="true" >
<cookieProcessor className="org.apache.tomcat.util.http.Rfc6265CookieProcessor"
sameSiteCookies="strict" />
<!-- <Valve className="org.apache.catalina.valves.RemoteAddrValve"
allow="127\\.\\d+\\.\\d+|::1|0:0:0:0:0:0:1" />-->
<Manager sessionAttributeValueClassNameFilter="java\\.lang\\.\\?:(Boolean|Integer|Long|Number|String)|org\\.apache\\.catalina\\.filters\\.CsrfPreventionFilter\\$LruCache\\?:\\$1|?
|java\\.util\\.\\?:(Linked)\\?HashMap"/>
</Context>
~
-- INSERT --
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

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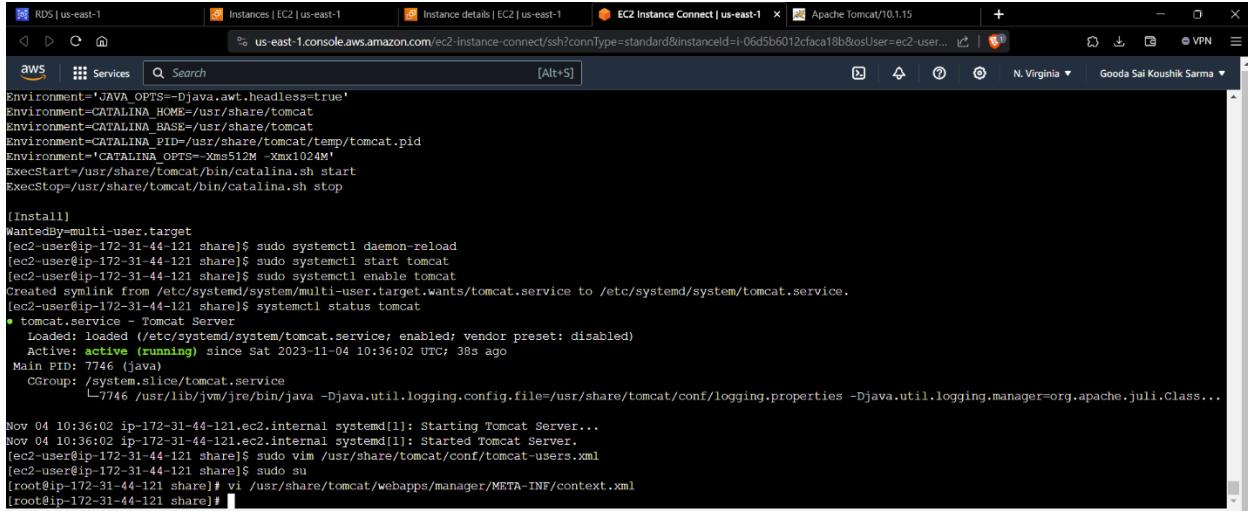
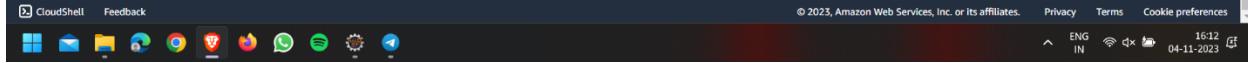
Once entered press Escape key to exit Insert mode and type in “:wq” to save and quit.



```
<?xml version="1.0" encoding="UTF-8"?>
<!--
  Licensed to the Apache Software Foundation (ASF) under one or more
  contributor license agreements. See the NOTICE file distributed with
  this work for additional information regarding copyright ownership.
  The ASF licenses this file to You under the Apache License, Version 2.0
  (the "License"); you may not use this file except in compliance with
  the License. You may obtain a copy of the License at

    http://www.apache.org/licenses/LICENSE-2.0

  Unless required by applicable law or agreed to in writing, software
  distributed under the License is distributed on an "AS IS" BASIS,
  WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
  See the License for the specific language governing permissions and
  limitations under the License.
-->
<Context antiResourceLocking="false" privileged="true" >
  <ContextProcessor className="org.apache.tomcat.util.http.Rfc6265CookieProcessor"
    sameSiteCookies="strict" />
  <!-- <Valve className="org.apache.catalina.valves.RemoteAddrValve"
    allow="127\.\d+\.\d+::1|0:0:0:0:0:1" />-->
  <Manager sessionAttributeValueClassNameFilter="java\.lang\.(Boolean|Integer|Long|Number|String)|org\.apache\.catalina\.filters\.CsrfPreventionFilter\$LruCache\?:(\$\$)?java\.util\.(HashMap|LinkedHashMap)" />
</Context>
<!--
  i-06d5b6012cfaca18b (SDPCE2Deploy)
  Public IPs: 3.81.49.161  Private IPs: 172.31.44.121
-->
```



```
Environment='JAVA_OPTS=-Djava.awt.headless=true'
Environment='CATALINA_HOME=/usr/share/tomcat'
Environment='CATALINA_BASE=/usr/share/tomcat'
Environment='CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid'
Environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
ExecStart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

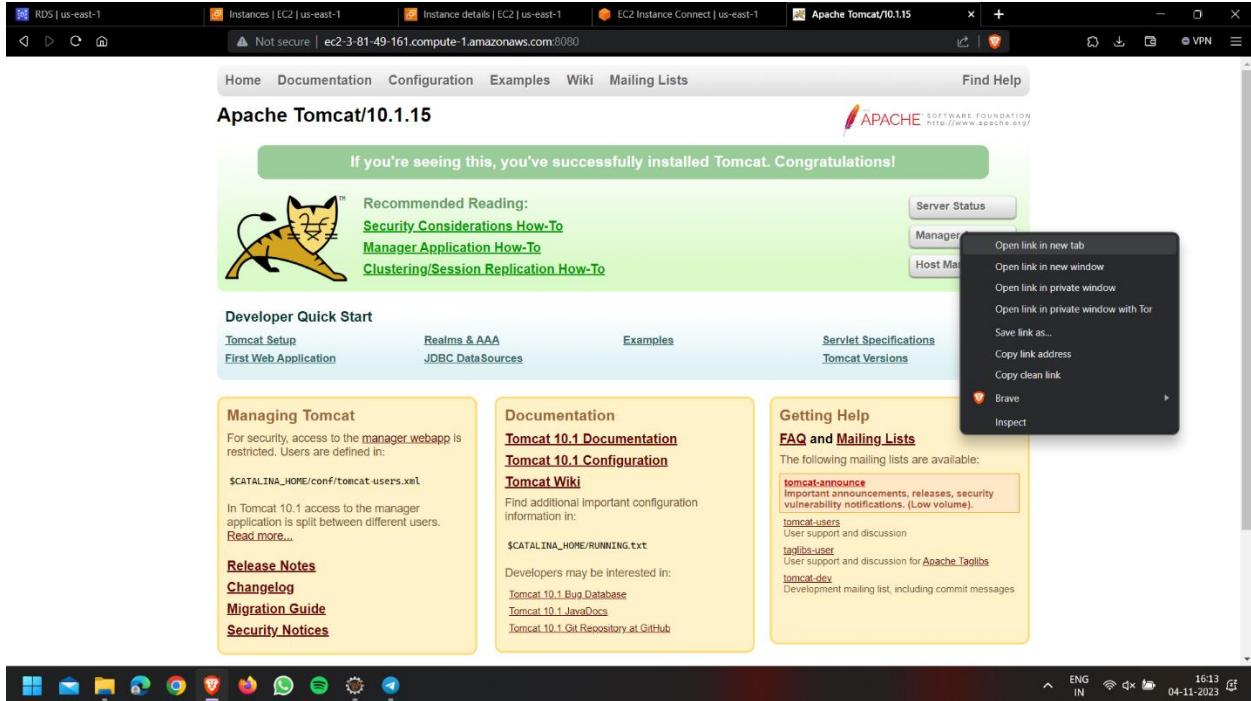
[Install]
WantedBy=multi-user.target

[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl start tomcat
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl enable tomcat
Created symlink from /etc/systemd/system/multi-user.target.wants/tomcat.service to /etc/systemd/system/tomcat.service.
[ec2-user@ip-172-31-44-121 share]$ systemctl status tomcat
● tomcat.service - Tomcat Server
   Loaded: loaded (/etc/systemd/system/tomcat.service; enabled; vendor preset: disabled)
   Active: active (running) since Sat 2023-11-04 10:36:02 UTC; 38s ago
     Main PID: 7746 (java)
        CPU: 0.000 CPU(s)
       CGroup: /system.slice/tomcat.service
              └─7746 /usr/lib/jvm/jre/bin/java -Djava.util.logging.config.file=/usr/share/tomcat/conf/logging.properties -Djava.util.logging.manager=org.apache.juli.Class...
```



```
i-06d5b6012cfaca18b (SDPCE2Deploy)
Public IPs: 3.81.49.161  Private IPs: 172.31.44.121
```

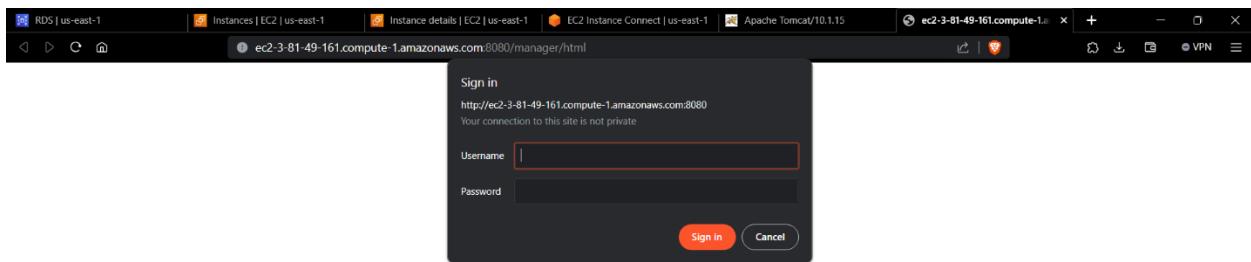
You can navigate to the manager page by using the hyper link 'manager webapp' on your tomcat home page.



The screenshot shows the Apache Tomcat 10.1.15 home page. At the top, there are several tabs: RDS | us-east-1, Instances | EC2 | us-east-1, Instance details | EC2 | us-east-1, EC2 Instance Connect | us-east-1, and Apache Tomcat/10.1.15. The URL in the address bar is <http://ec2-3-81-49-161.compute-1.amazonaws.com:8080>. The page content includes a banner for successful Tomcat installation, a developer quick start section, documentation links, and a 'Getting Help' section. A context menu is open over the 'Manager' link in the top right, listing options like 'Open link in new tab', 'Inspect', and 'Copy link address'.

On navigating you would be prompted for the username and password.

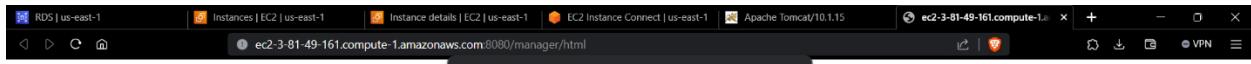
This would be **username="admin" password="TomcatP@sSw0rD"** - the same that we configured earlier and Click Sign in.



The screenshot shows a 'Sign in' dialog box. The URL in the address bar is <http://ec2-3-81-49-161.compute-1.amazonaws.com:8080/manager/html>. The dialog box has fields for 'Username' and 'Password', and buttons for 'Sign in' and 'Cancel'.



Suraj



Sign in

http://ec2-3-81-49-161.compute-1.amazonaws.com:8080

Your connection to this site is not private

Username: admin

Password: *****

Sign In Cancel



You will see this Page.

Not secure | ec2-3-81-49-161.compute-1.amazonaws.com:8080/manager/html

THE APACHE SOFTWARE FOUNDATION

Tomcat Web Application Manager

Message: OK

Manager

List Applications		HTML Manager Help	Manager Help	Server Status	
Applications					
Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

Deploy

Deploy directory or WAR file located on server

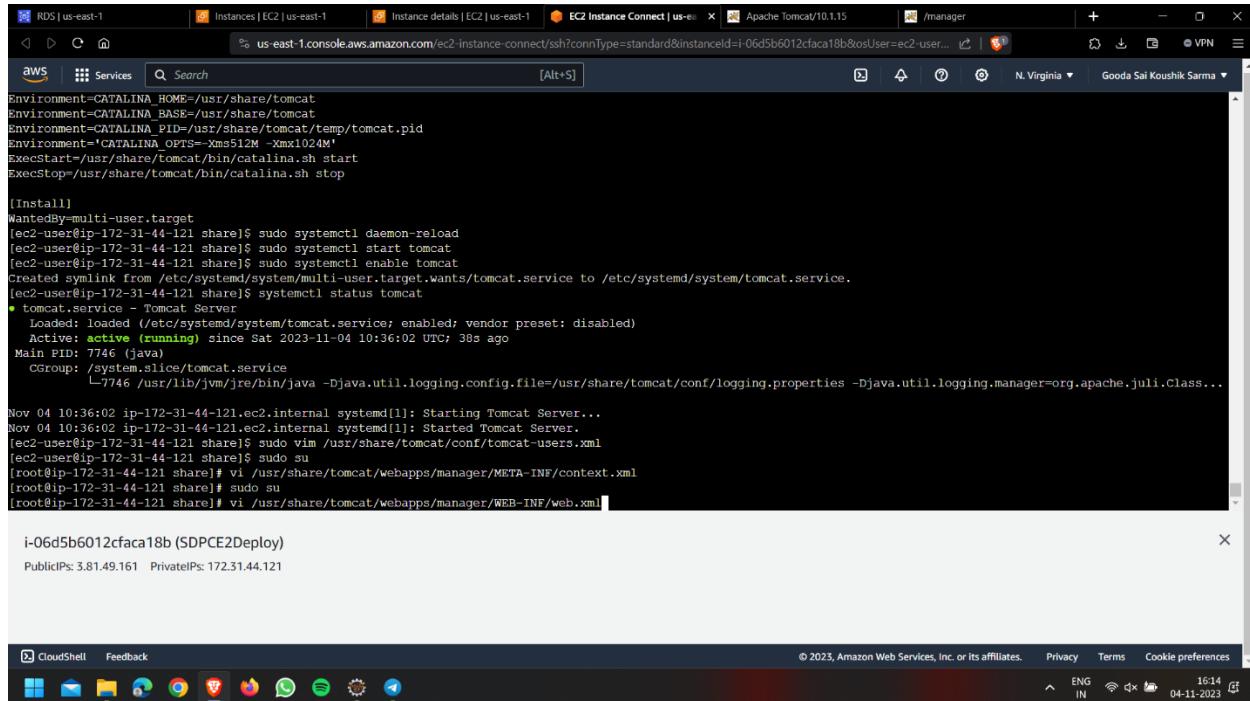
Context Path:

ENG IN 16:14 04-11-2023

Enter these commands

→ sudo su

→ vi /usr/share/tomcat/webapps/manager/WEB-INF/web.xml



```
Environment=CATALINA_HOME=/usr/share/tomcat
Environment=CATALINA_BASE=/usr/share/tomcat
Environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
Environment=CATALINA_OPTS=-Xms512M -Xmx1024M
execStart=/usr/share/tomcat/bin/catalina.sh start
execStop=/usr/share/tomcat/bin/catalina.sh stop

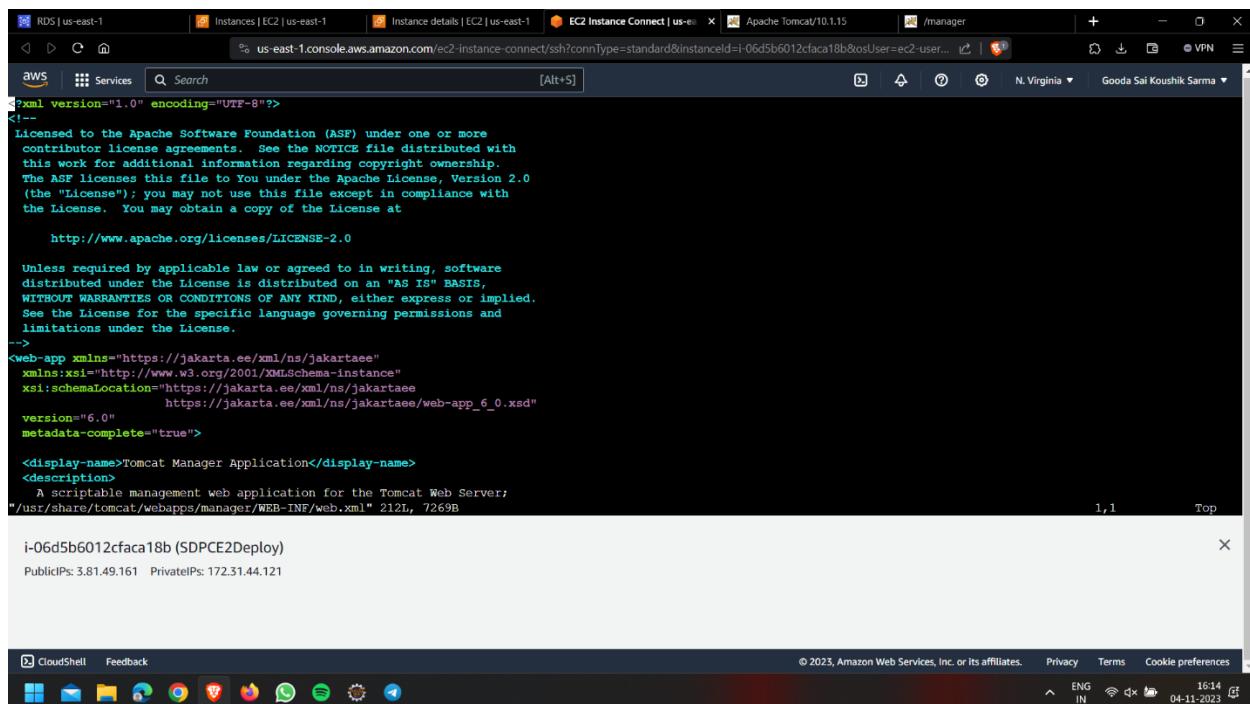
[Install]
WantedBy=multi-user.target
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl start tomcat
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl enable tomcat
Created symlink from /etc/systemd/system/multi-user.target.wants/tomcat.service to /etc/systemd/system/tomcat.service.
[ec2-user@ip-172-31-44-121 share]$ systemctl status tomcat
● tomcat.service - Tomcat Server
   Loaded: loaded (/etc/systemd/system/tomcat.service; enabled; vendor preset: disabled)
   Active: active (running) since Sat 2023-11-04 10:36:02 UTC; 38s ago
     Main PID: 7746 (java)
       CGroup: /system.slice/tomcat.service
           └─7746 /usr/lib/jvm/jre/bin/java -Djava.util.logging.config.file=/usr/share/tomcat/conf/logging.properties -Djava.util.logging.manager=org.apache.juli.Class...[redacted]

Nov 04 10:36:02 ip-172-31-44-121.ec2.internal systemd[1]: Starting Tomcat Server...
Nov 04 10:36:02 ip-172-31-44-121.ec2.internal systemd[1]: Started Tomcat Server.
[ec2-user@ip-172-31-44-121 share]$ sudo vim /usr/share/tomcat/conf/tomcat-users.xml
[ec2-user@ip-172-31-44-121 share]$ sudo su
[root@ip-172-31-44-121 share]# vi /usr/share/tomcat/webapps/manager/META-INF/context.xml
[root@ip-172-31-44-121 share]# sudo su
[root@ip-172-31-44-121 share]# vi /usr/share/tomcat/webapps/manager/WEB-INF/web.xml
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

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Press i to get into INSERT mode and update the below section -



```
<!--
Licensed to the Apache Software Foundation (ASF) under one or more
contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at
http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
<web-app xmlns="https://jakarta.ee/xml/ns/jakartaee"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="https://jakarta.ee/xml/ns/jakartaee
    https://jakarta.ee/xml/ns/jakartaee/web-app_6_0.xsd"
  version="6.0"
  metadata-complete="true">

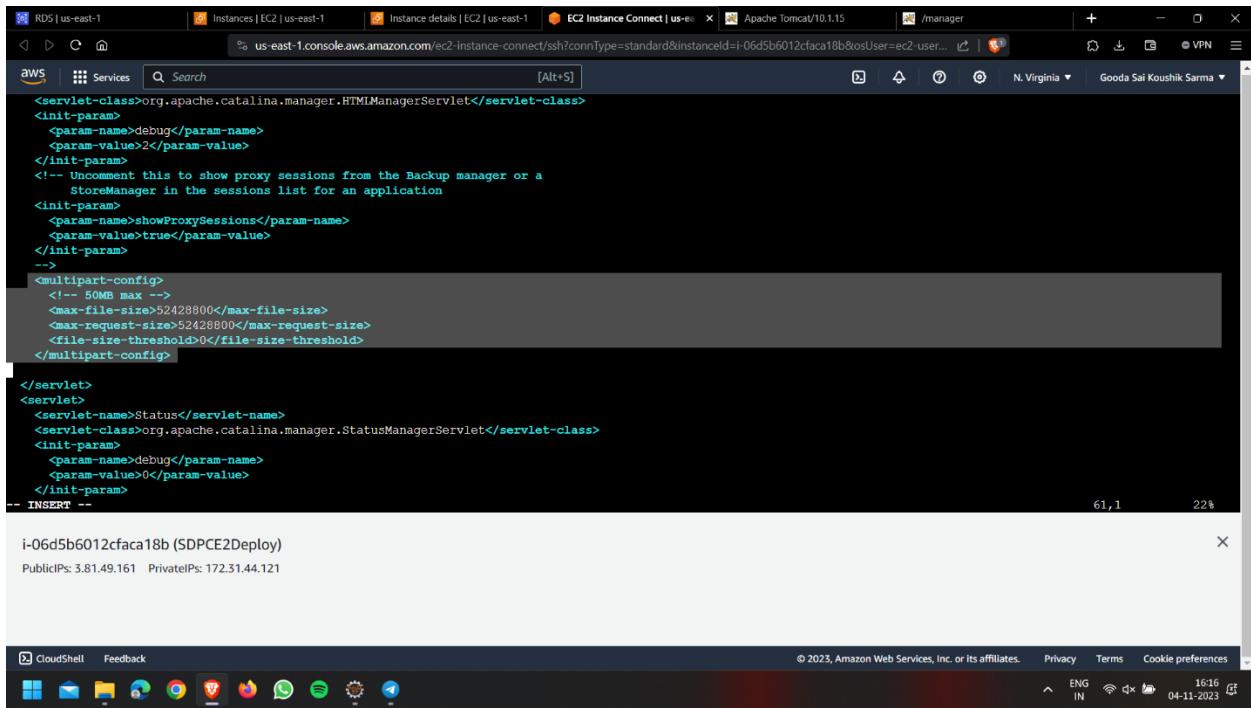
  <display-name>Tomcat Manager Application</display-name>
  <description>
    A scriptable management web application for the Tomcat Web Server;
  </description>
</web-app>
```

i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121

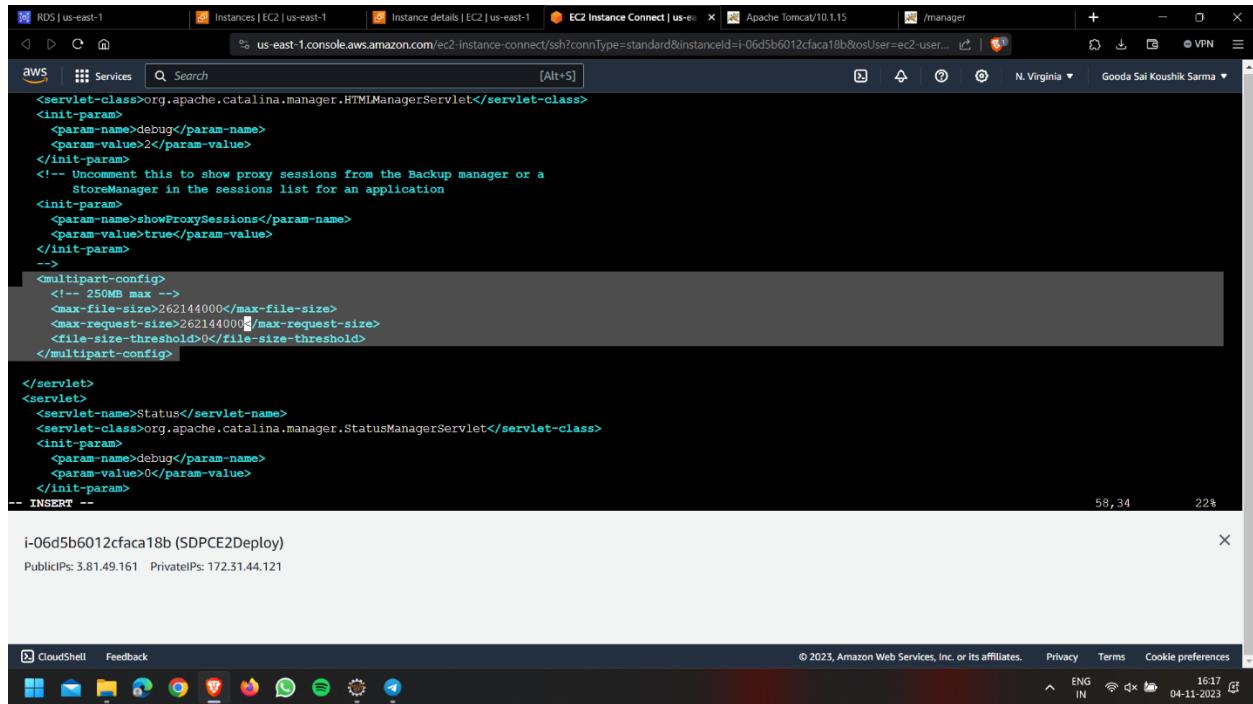
CloudShell Feedback © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 16:14 04-11-2023

Remove the selected code or Just replace the numbers like below.

```
<multipart-config>
  <!-- 250MB max -->
  <max-file-size>262144000</max-file-size>
  <max-request-size>262144000</max-request-size>
  <file-size-threshold>0</file-size-threshold>
</multipart-config>
```



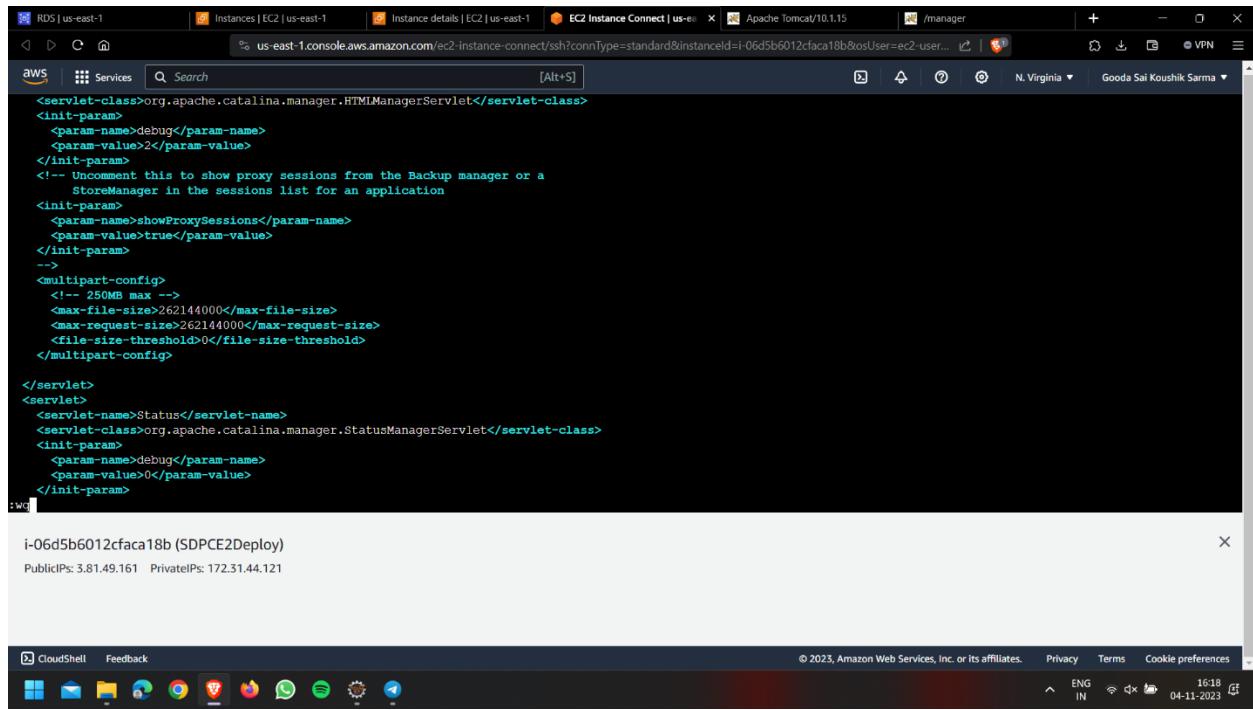
```
us-east-1 | Instances | EC2 | us-east-1 | Instance details | EC2 | us-east-1 | EC2 Instance Connect | us-east-1 | Apache Tomcat/10.1.15 | manager | + - X
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06d5b6012cfaca18b&osUser=ec2-user... | [Alt+S] | N. Virginia | Gooda Sai Koushik Sarma
AWS Services Search [Alt+S]
<servlet-class>org.apache.catalina.manager.HTMLManagerServlet</servlet-class>
<init-param>
  <param-name>debug</param-name>
  <param-value>2</param-value>
</init-param>
<!-- Uncomment this to show proxy sessions from the Backup manager or a
StoreManager in the sessions list for an application
<init-param>
  <param-name>showProxySessions</param-name>
  <param-value>true</param-value>
</init-param>
-->
<multipart-config>
  <!-- 50MB max -->
  <max-file-size>52428800</max-file-size>
  <max-request-size>52428800</max-request-size>
  <file-size-threshold>0</file-size-threshold>
</multipart-config>
</servlet>
<servlet>
  < servlet-name>Status</servlet-name>
  < servlet-class>org.apache.catalina.manager.StatusManagerServlet</servlet-class>
  <init-param>
    <param-name>debug</param-name>
    <param-value>0</param-value>
  </init-param>
-- INSERT --
i-06d5b6012cfaca18b (SDPCE2Deploy)
Public IPs: 3.81.49.161 Private IPs: 172.31.44.121
61,1 22%
CloudShell Feedback © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 16:16 04-11-2023
```



```
<servlet-class>org.apache.catalina.manager.HTMLManagerServlet</servlet-class>
<init-param>
<param-name>debug</param-name>
<param-value>2</param-value>
</init-param>
<!-- Uncomment this to show proxy sessions from the Backup manager or a
     StoreManager in the sessions list for an application
<init-param>
<param-name>showProxySessions</param-name>
<param-value>true</param-value>
</init-param>
-->
<multipart-config>
<!-- 250MB max -->
<max-file-size>262144000</max-file-size>
<max-request-size>262144000</max-request-size>
<file-size-threshold>0</file-size-threshold>
</multipart-config>

</servlet>
< servlet>
< servlet-name>Status</servlet-name>
< servlet-class>org.apache.catalina.manager.StatusManagerServlet</servlet-class>
<init-param>
<param-name>debug</param-name>
<param-value>0</param-value>
</init-param>
-- INSERT --
i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121
```

Once entered press Escape key to exit Insert mode and type in “:wq” to save and quit.



```
<servlet-class>org.apache.catalina.manager.HTMLManagerServlet</servlet-class>
<init-param>
<param-name>debug</param-name>
<param-value>2</param-value>
</init-param>
<!-- Uncomment this to show proxy sessions from the Backup manager or a
     StoreManager in the sessions list for an application
<init-param>
<param-name>showProxySessions</param-name>
<param-value>true</param-value>
</init-param>
-->
<multipart-config>
<!-- 250MB max -->
<max-file-size>262144000</max-file-size>
<max-request-size>262144000</max-request-size>
<file-size-threshold>0</file-size-threshold>
</multipart-config>

</servlet>
< servlet>
< servlet-name>Status</servlet-name>
< servlet-class>org.apache.catalina.manager.StatusManagerServlet</servlet-class>
<init-param>
<param-name>debug</param-name>
<param-value>0</param-value>
</init-param>
:wq
i-06d5b6012cfaca18b (SDPCE2Deploy)
PublicIPs: 3.81.49.161 PrivateIPs: 172.31.44.121
```

```

Environment=CATALINA_BASE=/usr/share/tomcat
Environment=CATALINA_PID=/usr/share/tomcat/temp/tomcat.pid
Environment='CATALINA_OPTS=-Xms512M -Xmx1024M'
execstart=/usr/share/tomcat/bin/catalina.sh start
ExecStop=/usr/share/tomcat/bin/catalina.sh stop

[Install]
WantedBy=multi-user.target

[ec2-user@ip-172-31-44-121 share]$ sudo systemctl daemon-reload
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl start tomcat
[ec2-user@ip-172-31-44-121 share]$ sudo systemctl enable tomcat
Created symlink from /etc/systemd/system/multi-user.target.wants/tomcat.service to /etc/systemd/system/tomcat.service.
[ec2-user@ip-172-31-44-121 share]$ systemctl status tomcat
● tomcat.service - Tomcat Server
  Loaded: loaded (/etc/systemd/system/tomcat.service; enabled; vendor preset: disabled)
  Active: active (running) since Sat 2023-11-04 10:36:02 UTC; 38s ago
    Main PID: 7746 (java)
      Group: /system.slice/tomcat.service
         ▾ 7746 /usr/lib/jvm/jre/bin/java -Djava.util.logging.config.file=/usr/share/tomcat/conf/logging.properties -Djava.util.logging.manager=org.apache.juli.Class...
Nov 04 10:36:02 ip-172-31-44-121.ec2.internal systemd[1]: Starting Tomcat Server...
Nov 04 10:36:02 ip-172-31-44-121.ec2.internal systemd[1]: Started Tomcat Server.
[ec2-user@ip-172-31-44-121 share]$ sudo vim /usr/share/tomcat/conf/tomcat-users.xml
[ec2-user@ip-172-31-44-121 share]$ sudo su
[root@ip-172-31-44-121 share]# vi /usr/share/tomcat/webapps/manager/META-INF/context.xml
[root@ip-172-31-44-121 share]# sudo su
[root@ip-172-31-44-121 share]# vi /usr/share/tomcat/webapps/manager/WEB-INF/web.xml
[root@ip-172-31-44-121 share]#

```

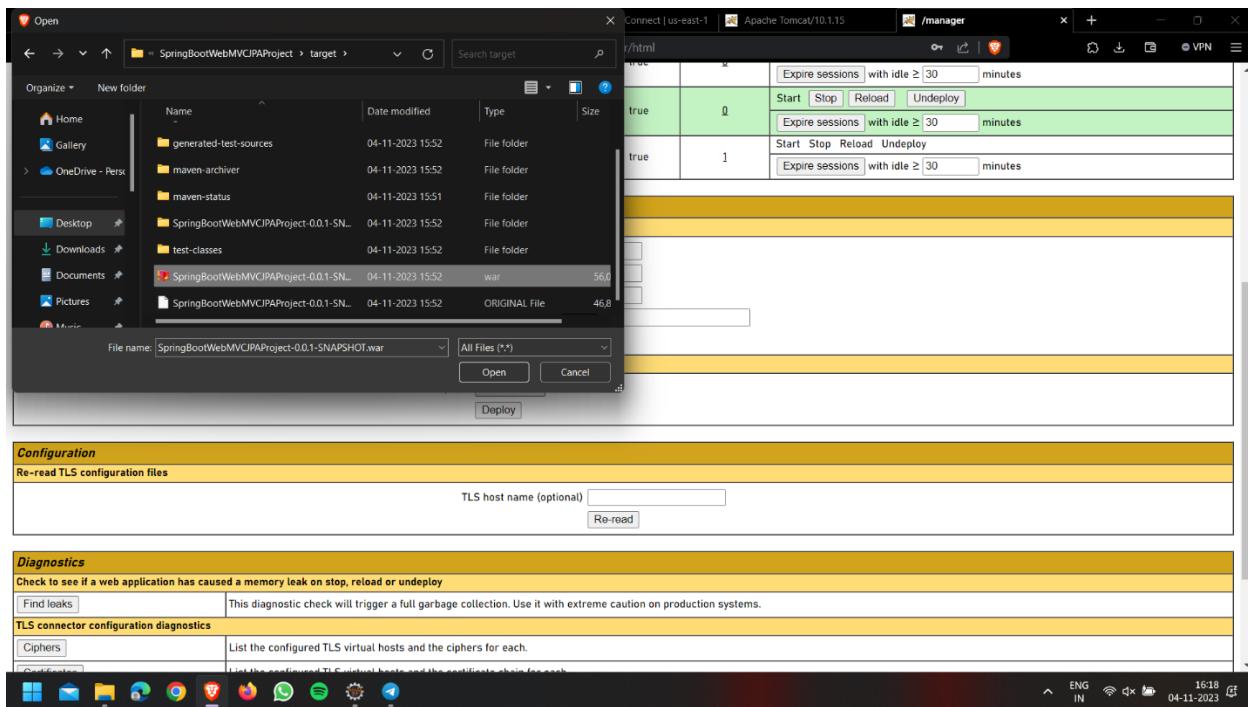
i-06d5b6012cfaca18b (SDPCE2Deploy)
Public IPs: 3.81.49.161 Private IPs: 172.31.44.121

Now go to Tomcat manager page.

Scroll down to the 'WAR file to deploy' section.

Gooda Sai Koushik Sarma

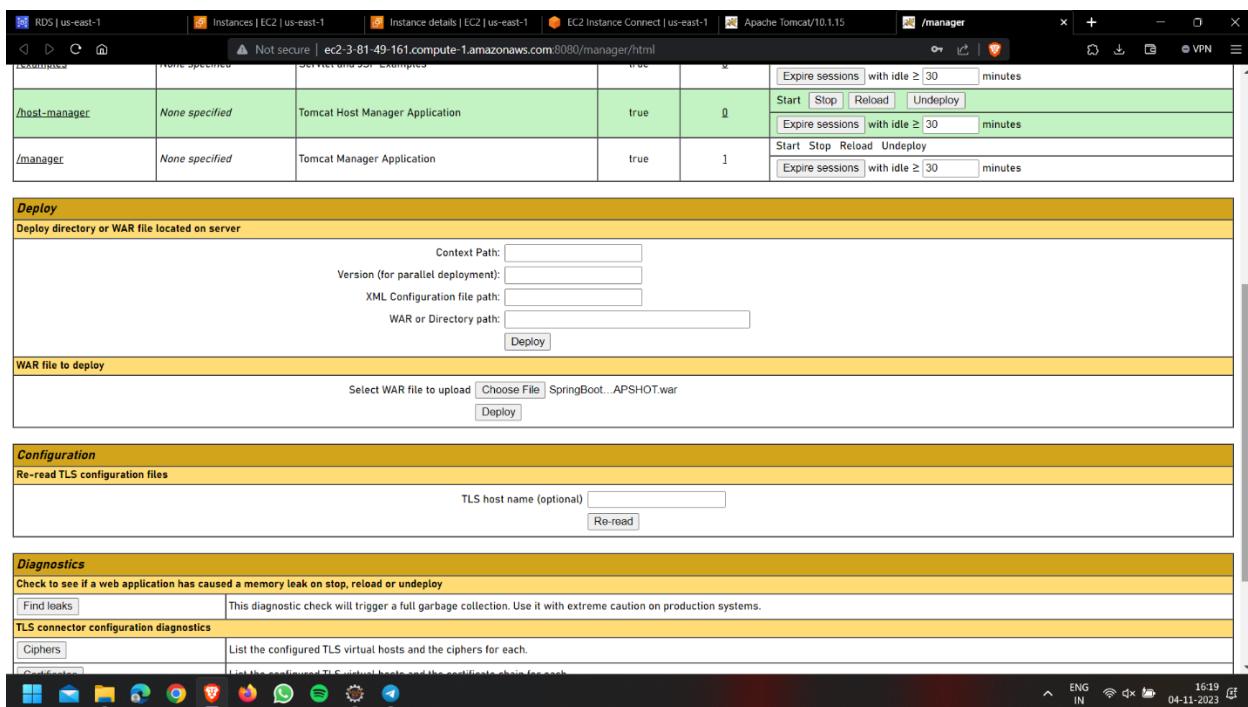
Upload your .war file. This can be found under the Target folder of your project.



The screenshot shows a Windows File Explorer window with the path 'SpringBootWebMVCProject > target'. Inside the target folder, there are several subfolders: 'generated-test-sources', 'maven-archiver', 'maven-status', 'SpringBootWebMVCProject-0.0.1-SNAPSHOT', 'test-classes', and 'SpringBootWebMVCProject-0.0.1-SNAPSHOT'. The 'SpringBootWebMVCProject-0.0.1-SNAPSHOT' folder is a 'war' file, and its file size is 560. Below the file list, there is a 'File name:' dropdown set to 'SpringBootWebMVCProject-0.0.1-SNAPSHOT.war', an 'Open' button, and a 'Cancel' button. At the bottom right of the dialog, there is a 'Deploy' button.

The background shows the Apache Tomcat 10.1.15 Manager interface. The 'Deploy' tab is selected. In the 'Deploy' section, there is a table with two rows. The first row has a 'true' status and a '0' count. The second row has a 'true' status and a '1' count. Each row has a 'Start' button, a 'Stop' button, a 'Reload' button, and a 'Undeploy' button. Below the table, there is a 'Configuration' section with a 'Re-read TLS configuration files' button and a 'TLS host name (optional)' input field with a 'Re-read' button. At the bottom, there is a 'Diagnostics' section with a 'Find leaks' button and a note: 'This diagnostic check will trigger a full garbage collection. Use it with extreme caution on production systems.' There is also a 'TLS connector configuration diagnostics' section with a 'Ciphers' button and a note: 'List the configured TLS virtual hosts and the ciphers for each.' The status bar at the bottom right shows '16:18 IN 04-11-2023'.

Click “Deploy”.



The screenshot shows the Apache Tomcat 10.1.15 Manager interface with the 'Deploy' tab selected. In the 'Deploy' section, there is a 'Deploy directory or WAR file located on server' table. It has two rows: one for 'host-manager' (Context Path: 'None specified', Server and port: 'Tomcat Host Manager Application', Status: 'true', Count: '0') and one for '/manager' (Context Path: 'None specified', Server and port: 'Tomcat Manager Application', Status: 'true', Count: '1'). Each row has a 'Start' button, a 'Stop' button, a 'Reload' button, and a 'Undeploy' button. Below the table, there is a 'WAR file to deploy' section with a 'Select WAR file to upload' button, a 'Choose File' button with 'SpringBoot...APSHOT.war' selected, and a 'Deploy' button. At the bottom, there is a 'Configuration' section with a 'Re-read TLS configuration files' button and a 'TLS host name (optional)' input field with a 'Re-read' button. There is also a 'Diagnostics' section with a 'Find leaks' button and a note: 'This diagnostic check will trigger a full garbage collection. Use it with extreme caution on production systems.' There is also a 'TLS connector configuration diagnostics' section with a 'Ciphers' button and a note: 'List the configured TLS virtual hosts and the ciphers for each.' The status bar at the bottom right shows '16:19 IN 04-11-2023'.

Please be patient until the war file gets deployed.

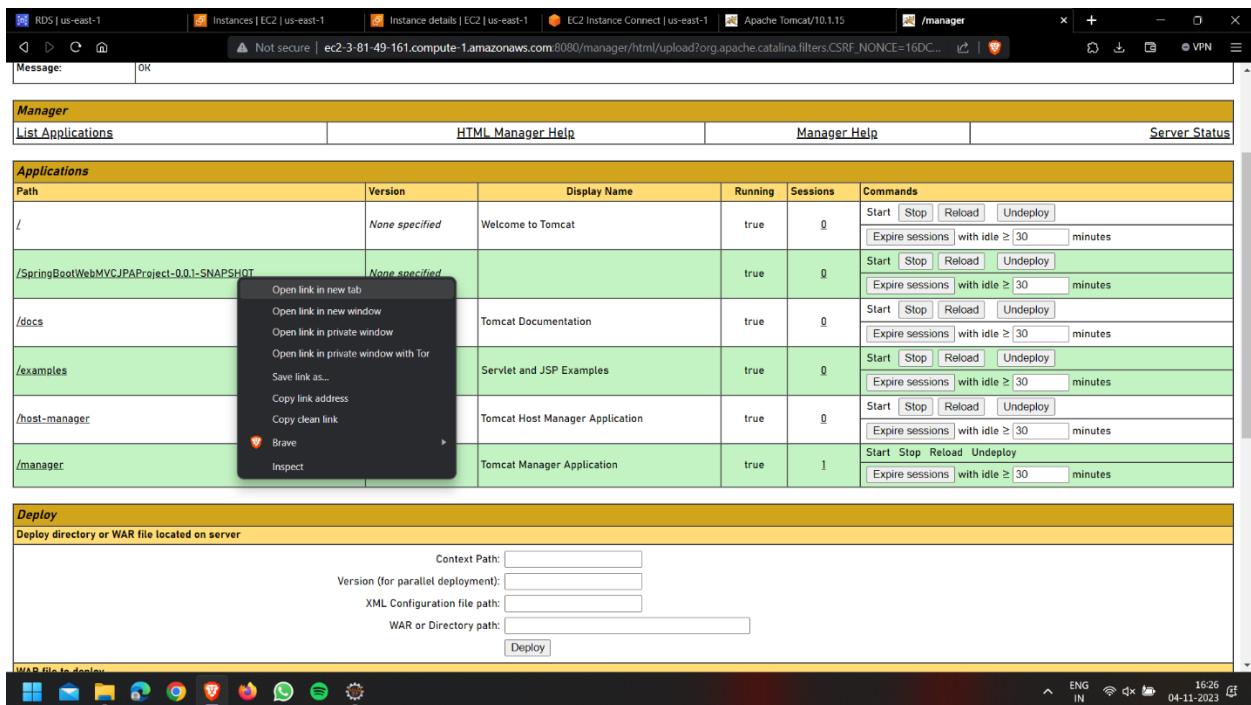
After Deploying It will be displayed under the Application table.



The screenshot shows the Apache Tomcat Manager interface. The 'Applications' table lists the following entries:

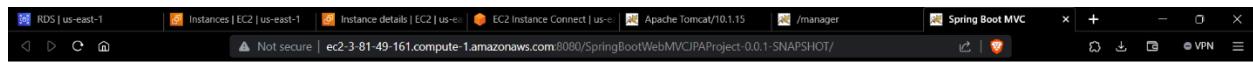
Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/SpringBootWebMVCJPAProject-0.0.1-SNAPSHOT	None specified		true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	None specified	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes

Now Open your Deployed Spring Boot Project by Clicking on the Project name.



The screenshot shows the Apache Tomcat Manager interface. A context menu is open over the 'SpringBootWebMVCJPAProject-0.0.1-SNAPSHOT' entry in the 'Applications' table. The menu options are:

- Open link in new tab
- Open link in new window
- Open link in private window
- Open link in private window with Tor
- Save link as...
- Copy link address
- Copy clean link
- Brave
- Inspect

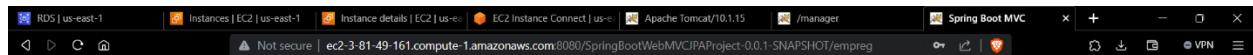


Spring Boot Web MVC Project

Home Admin Employee

Spring Boot Web MVC Project Demo

1. Employee Registration
2. Employee Login
3. Employee Update Profile
4. Admin Login
5. Admin View All Employees
6. Admin View Employee By ID
7. Admin Delete Employee
8. Session Management

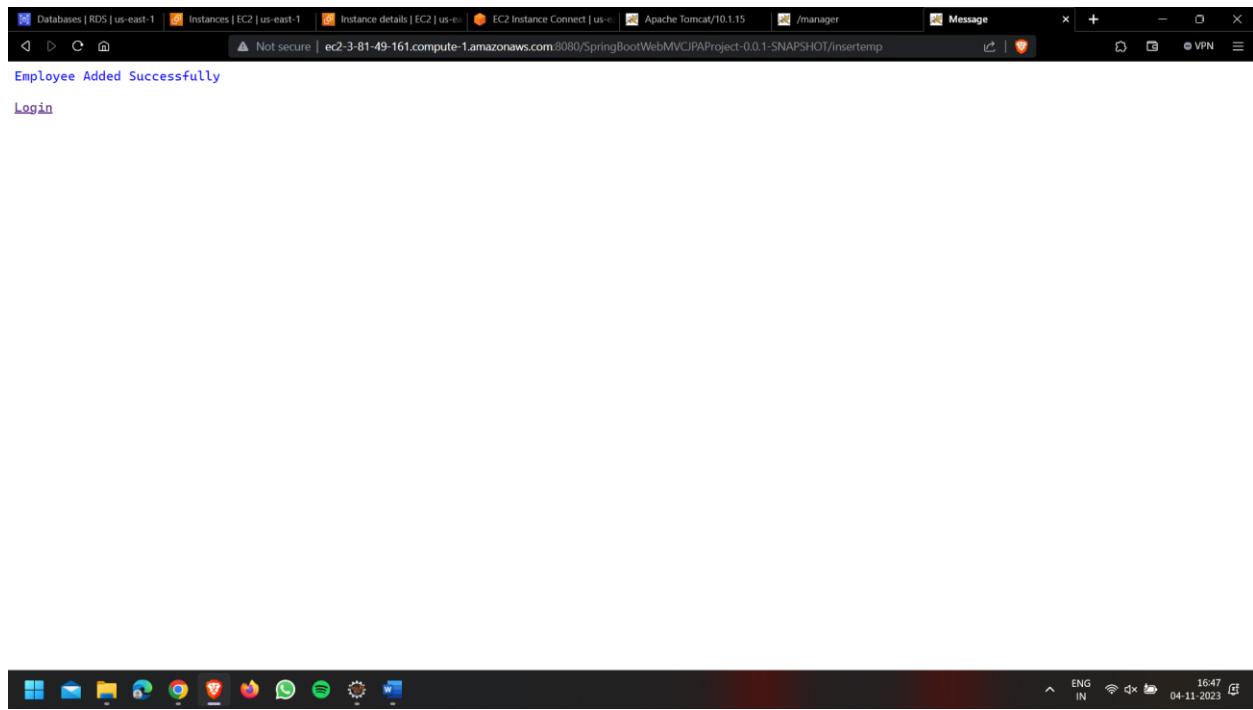


Employee Registration

Name	JSK
Gender	<input checked="" type="radio"/> Male <input type="radio"/> Female <input type="radio"/> Others
Date of Birth	25-10-1993
Department	Technical
Salary	99999
Email ID	jsk@gmail.com
Password	...
Location	Vizag
Contact No	9988987878

Register





Perform CRUD Operations in your Project and Verify it in your MySQL Workbench.

A screenshot of MySQL Workbench. The 'Query 1' editor contains the following SQL code:

```
1 • use sdpdatabase;
2 • show tables;
3 • select * from emp_table;
```

The 'Result Grid' shows the data from the emp_table:

emp_id	emp_active	emp_contact	emp_dob	emp_department	emp_email	emp_gender	emp_location	emp_name	emp_password	emp_salary
1	1	8499873313	2023-11-15	TECHNICAL	koushik9goda@gmail.com	MALE	vijayawada	koushik	koushik	9876
2	1	9998987878	1993-10-25	TECHNICAL	jsk@gmail.com	MALE	Vizag	JSK	jsk	99999
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Thank You

A handwritten signature in black ink, likely belonging to the author of the video.