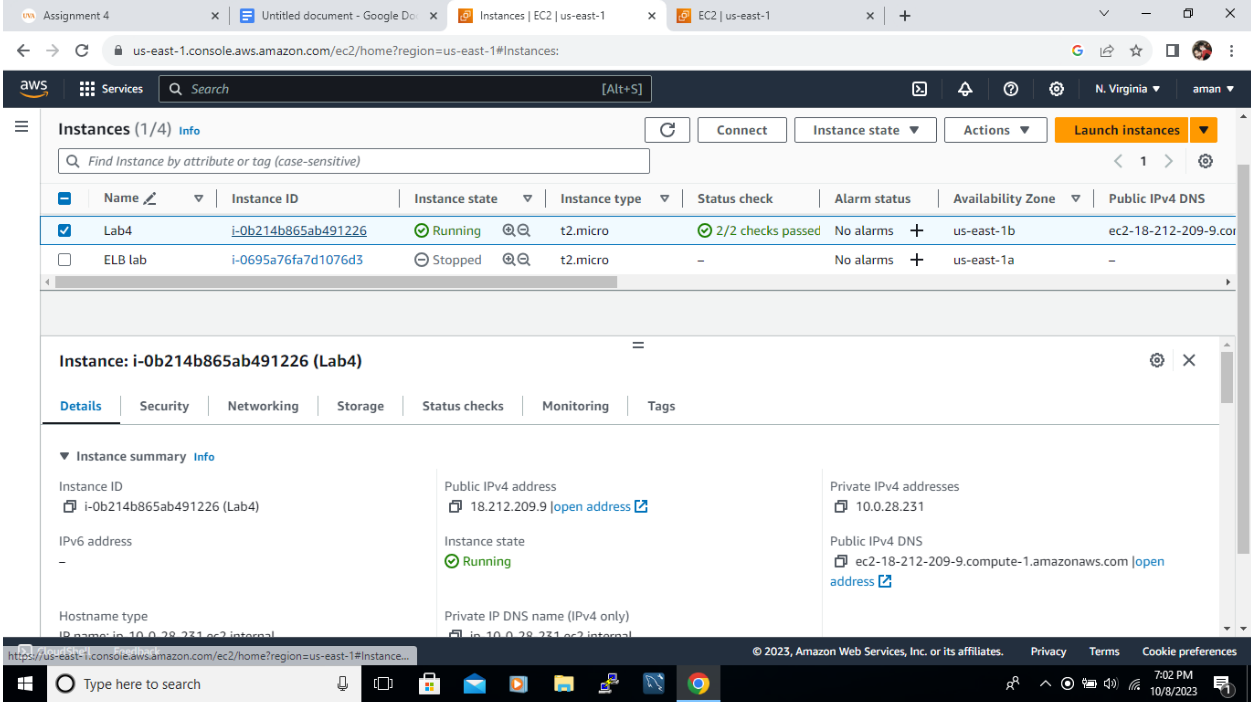
Auto Scaling Group

Follow the steps to create an AMI. Submit a screenshot of step 10



Instances (1/4) Info

Find Instance by attribute or tag (case-sensitive)

☑	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
☑	Lab4	i-0b214b865ab491226	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-18-212-209-9.coı
□	ELB lab	i-0695a76fa7d1076d3	Stopped	t2.micro	–	No alarms	us-east-1a	–

Instance: i-0b214b865ab491226 (Lab4)

Instance summary Info

Instance ID: i-0b214b865ab491226 (Lab4)

Public IPv4 address: 18.212.209.9 |open address

Private IPv4 addresses: 10.0.28.231

IPv6 address: –

Instance state: Running

Public IPv4 DNS: ec2-18-212-209-9.compute-1.amazonaws.com |open address

Hostname type

Private IP DNS name (IPv4 only)

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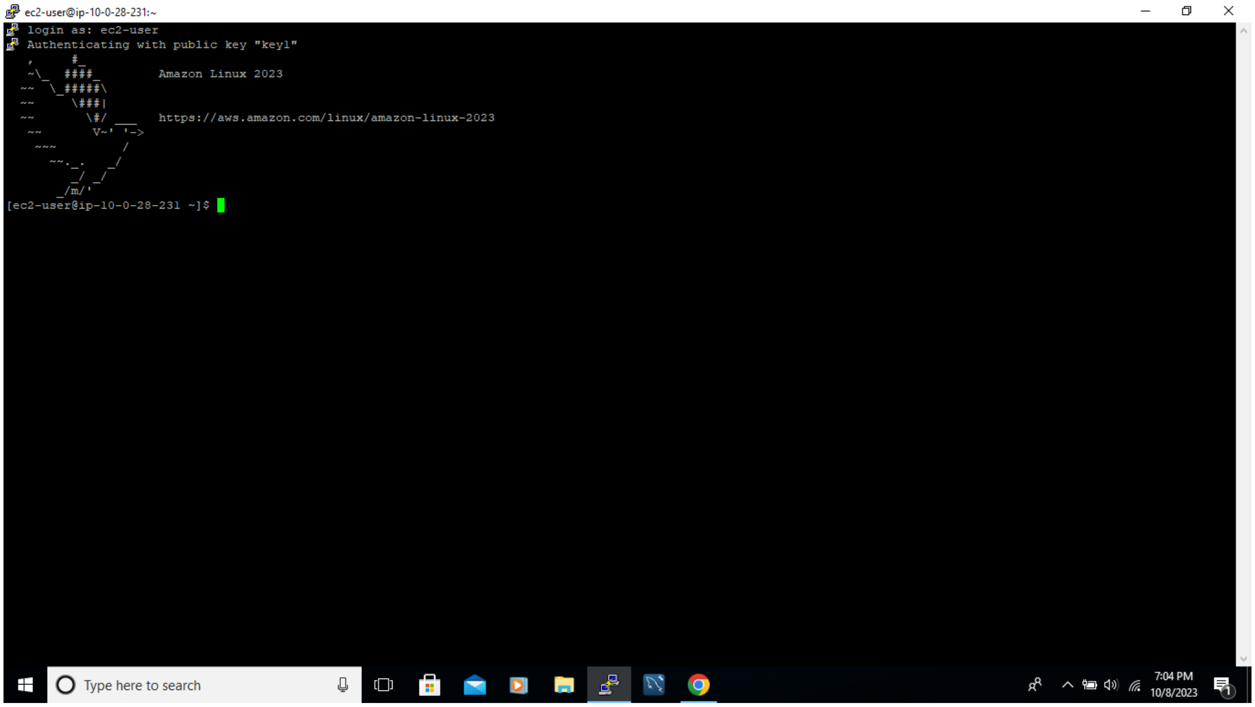
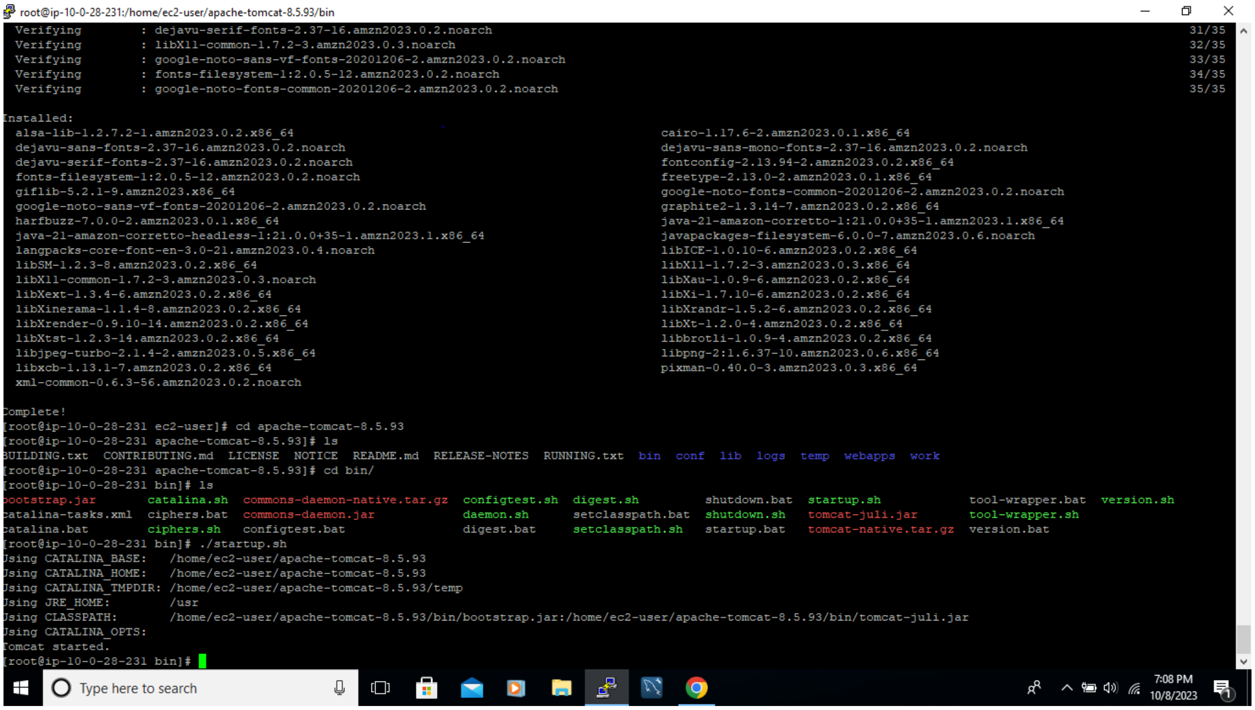
Follow the steps to access the instance remotely using PuTTY. Submit a screenshot of step 6.



ec2-user@ip-10-0-28-231:~

```
login as: ec2-user
Authenticating with public key "key1"
   ,     #_
   ~\_  ####_        Amazon Linux 2023
  ~~  \_#####\
  ~~     \###|
  ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
   ~~       V~' '->
    ~~~         /
      ~~._.   _/
         _/ _/
       _/m/'
[ec2-user@ip-10-0-28-231 ~]$
```

Follow the steps to install Tomcat. Submit a screenshot of step 7.

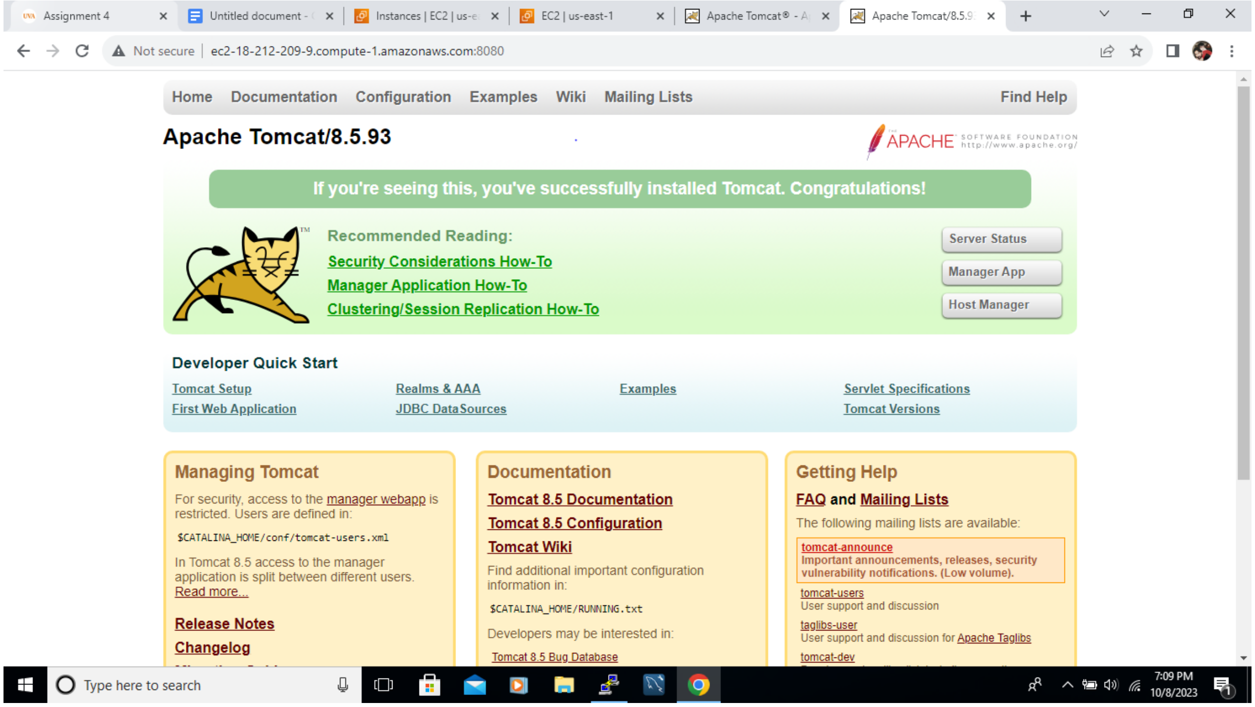


```
  Verifying        : dejavu-serif-fonts-2.37-16.amzn2023.0.2.noarch                                                                                             31/35
  Verifying        : libX11-common-1.7.2-3.amzn2023.0.3.noarch                                                                                                  32/35
  Verifying        : google-noto-sans-vf-fonts-20201206-2.amzn2023.0.2.noarch                                                                                   33/35
  Verifying        : fonts-filesystem-1:2.0.5-12.amzn2023.0.2.noarch                                                                                            34/35
  Verifying        : google-noto-fonts-common-20201206-2.amzn2023.0.2.noarch                                                                                    35/35

Installed:
  alsa-lib-1.2.7.2-1.amzn2023.0.2.x86_64                                                 cairo-1.17.6-2.amzn2023.0.1.x86_64
  dejavu-sans-fonts-2.37-16.amzn2023.0.2.noarch                                          dejavu-sans-mono-fonts-2.37-16.amzn2023.0.2.noarch
  dejavu-serif-fonts-2.37-16.amzn2023.0.2.noarch                                         fontconfig-2.13.94-2.amzn2023.0.2.x86_64
  fonts-filesystem-1:2.0.5-12.amzn2023.0.2.noarch                                        freetype-2.13.0-2.amzn2023.0.1.x86_64
  giflib-5.2.1-9.amzn2023.x86_64                                                         google-noto-fonts-common-20201206-2.amzn2023.0.2.noarch
  google-noto-sans-vf-fonts-20201206-2.amzn2023.0.2.noarch                               graphite2-1.3.14-7.amzn2023.0.2.x86_64
  harfbuzz-7.0.0-2.amzn2023.0.1.x86_64                                                   java-21-amazon-corretto-1:21.0.0+35-1.amzn2023.1.x86_64
  java-21-amazon-corretto-headless-1:21.0.0+35-1.amzn2023.1.x86_64                       javapackages-filesystem-6.0.0-7.amzn2023.0.6.noarch
  langpacks-core-font-en-3.0-21.amzn2023.0.4.noarch                                      libICE-1.0.10-6.amzn2023.0.2.x86_64
  libSM-1.2.3-8.amzn2023.0.2.x86_64                                                      libX11-1.7.2-3.amzn2023.0.3.x86_64
  libX11-common-1.7.2-3.amzn2023.0.3.noarch                                              libXau-1.0.9-6.amzn2023.0.2.x86_64
  libXext-1.3.4-6.amzn2023.0.2.x86_64                                                    libXi-1.7.10-6.amzn2023.0.2.x86_64
  libXinerama-1.1.4-8.amzn2023.0.2.x86_64                                                libXrandr-1.5.2-6.amzn2023.0.2.x86_64
  libXrender-0.9.10-14.amzn2023.0.2.x86_64                                               libXt-1.2.0-4.amzn2023.0.2.x86_64
  libXtst-1.2.3-14.amzn2023.0.2.x86_64                                                   libbrotli-1.0.9-4.amzn2023.0.2.x86_64
  libjpeg-turbo-2.1.4-2.amzn2023.0.5.x86_64                                              libpng-2:1.6.37-10.amzn2023.0.6.x86_64
  libxcb-1.13.1-7.amzn2023.0.2.x86_64                                                    pixman-0.40.0-3.amzn2023.0.3.x86_64
  xml-common-0.6.3-56.amzn2023.0.2.noarch

Complete!
[root@ip-10-0-28-231 ec2-user]# cd apache-tomcat-8.5.93
[root@ip-10-0-28-231 apache-tomcat-8.5.93]# ls
BUILDING.txt  CONTRIBUTING.md  LICENSE  NOTICE  README.md  RELEASE-NOTES  RUNNING.txt  bin  conf  lib  logs  temp  webapps  work
[root@ip-10-0-28-231 apache-tomcat-8.5.93]# cd bin/
[root@ip-10-0-28-231 bin]# ls
bootstrap.jar       catalina.sh  commons-daemon-native.tar.gz  configtest.sh  digest.sh         shutdown.bat  startup.sh            tool-wrapper.bat  version.sh
catalina-tasks.xml  ciphers.bat  commons-daemon.jar            daemon.sh      setclasspath.bat  shutdown.sh   tomcat-juli.jar       tool-wrapper.sh
catalina.bat        ciphers.sh   configtest.bat                digest.bat     setclasspath.sh   startup.bat   tomcat-native.tar.gz  version.bat
[root@ip-10-0-28-231 bin]# ./startup.sh
Using CATALINA_BASE:   /home/ec2-user/apache-tomcat-8.5.93
Using CATALINA_HOME:   /home/ec2-user/apache-tomcat-8.5.93
Using CATALINA_TMPDIR: /home/ec2-user/apache-tomcat-8.5.93/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /home/ec2-user/apache-tomcat-8.5.93/bin/bootstrap.jar:/home/ec2-user/apache-tomcat-8.5.93/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
[root@ip-10-0-28-231 bin]#
```

Follow the steps to configure port 8080 for access. Submit a screenshot of step 2, accessing the Tomcat instance.



Apache Tomcat/8.5.93

If you're seeing this, you've successfully installed Tomcat. Congratulations!

Recommended Reading:

Security Considerations How-To

Manager Application How-To

Clustering/Session Replication How-To

Developer Quick Start

Tomcat Setup
First Web Application
Realms & AAA
JDBC DataSources
Examples
Servlet Specifications
Tomcat Versions

Managing Tomcat

For security, access to the manager webapp is restricted. Users are defined in:

$CATALINA_HOME/conf/tomcat-users.xml

In Tomcat 8.5 access to the manager application is split between different users. Read more...

Release Notes

Changelog

Documentation

Tomcat 8.5 Documentation

Tomcat 8.5 Configuration

Tomcat Wiki

Find additional important configuration information in:

$CATALINA_HOME/RUNNING.txt

Developers may be interested in:

Tomcat 8.5 Bug Database

Getting Help

FAQ and Mailing Lists

The following mailing lists are available:

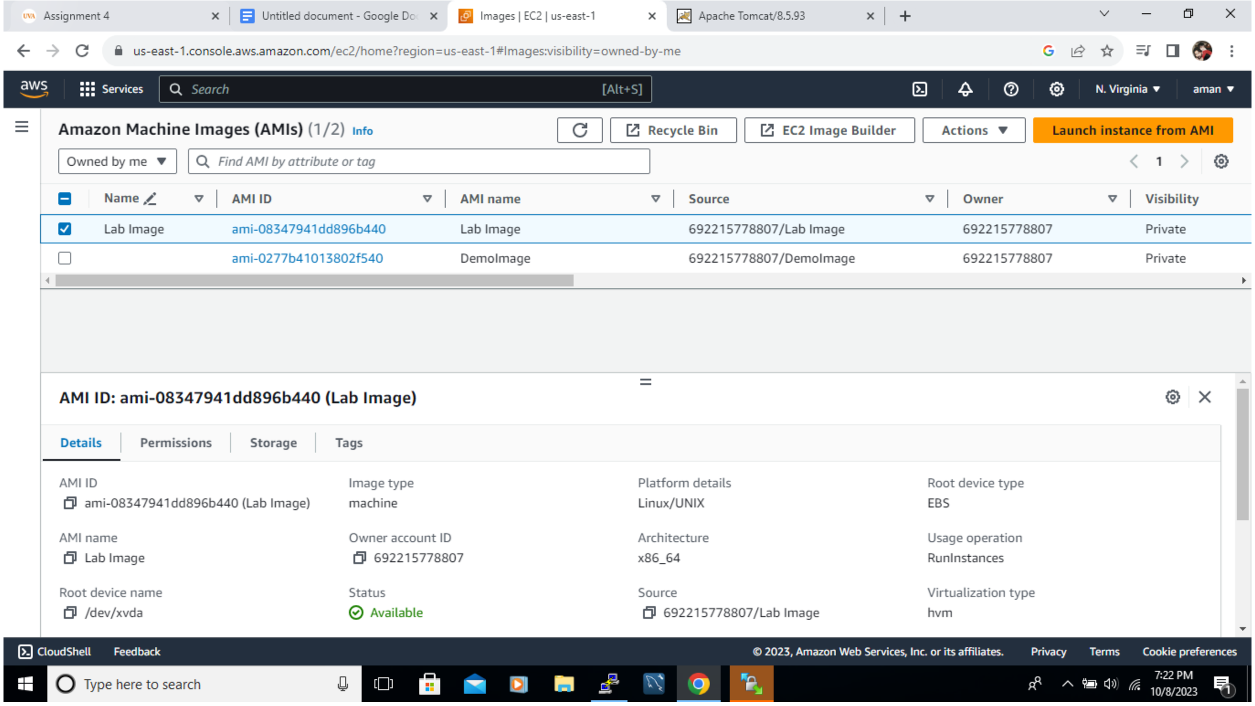
tomcat-announce
Important announcements, releases, security vulnerability notifications. (Low volume).

tomcat-users
User support and discussion

taglibs-user
User support and discussion for Apache Taglibs

tomcat-dev

Follow the steps to transfer the WAR, and create the AMI. Submit a screenshot of step 9, once the image is available.



Amazon Machine Images (AMIs) (1/2) Info

	Name	AMI ID	AMI name	Source	Owner	Visibility
☑	Lab Image	ami-08347941dd896b440	Lab Image	692215778807/Lab Image	692215778807	Private
□		ami-0277b41013802f540	DemoImage	692215778807/DemoImage	692215778807	Private

AMI ID: ami-08347941dd896b440 (Lab Image)

AMI ID
ami-08347941dd896b440 (Lab Image)

Image type
machine

Platform details
Linux/UNIX

Root device type
EBS

AMI name
Lab Image

Owner account ID
692215778807

Architecture
x86_64

Usage operation
RunInstances

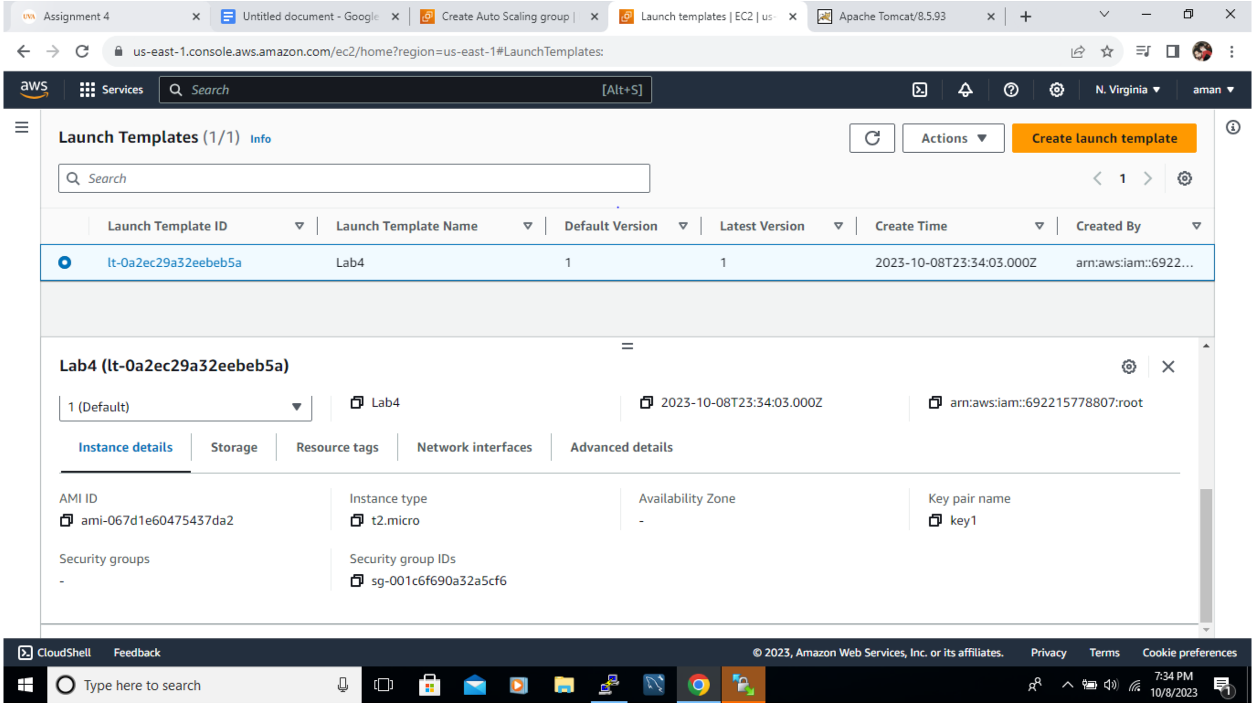
Root device name
/dev/xvda

Status
Available

Source
692215778807/Lab Image

Virtualization type
hvm

Follow the steps to manage the EC2 instances automatically. Submit a screenshot of step 16 in which you create the launch configuration.



Launch Templates (1/1) Info

	Launch Template ID	Launch Template Name	Default Version	Latest Version	Create Time	Created By
●	lt-0a2ec29a32eebeb5a	Lab4	1	1	2023-10-08T23:34:03.000Z	arn:aws:iam::6922...

Lab4 (lt-0a2ec29a32eebeb5a)

1 (Default)
Lab4
2023-10-08T23:34:03.000Z
arn:aws:iam::692215778807:root

AMI ID
ami-067d1e60475437da2

Instance type
t2.micro

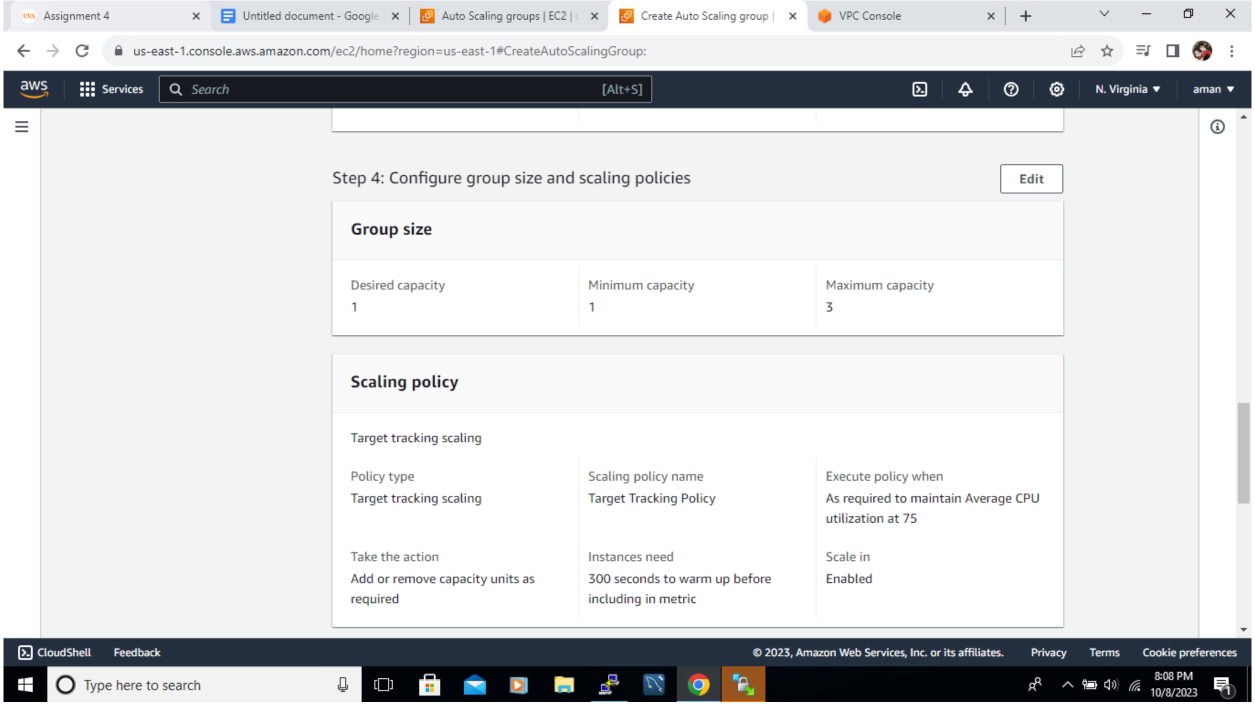
Availability Zone
-

Key pair name
key1

Security groups
-

Security group IDs
sg-001c6f690a32a5cf6

Follow the steps to configure the Auto Scaling group. Submit a screenshot of step 16 in which you review the configurations and create the group.


Assignment 4
Untitled document - Google
Auto Scaling groups | EC2 |
Create Auto Scaling group |
VPC Console
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateAutoScalingGroup:
aws
Services
Search
[Alt+S]
N. Virginia
aman
Edit
CloudShell
Feedback
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
8:08 PM
10/8/2023

Step 4: Configure group size and scaling policies

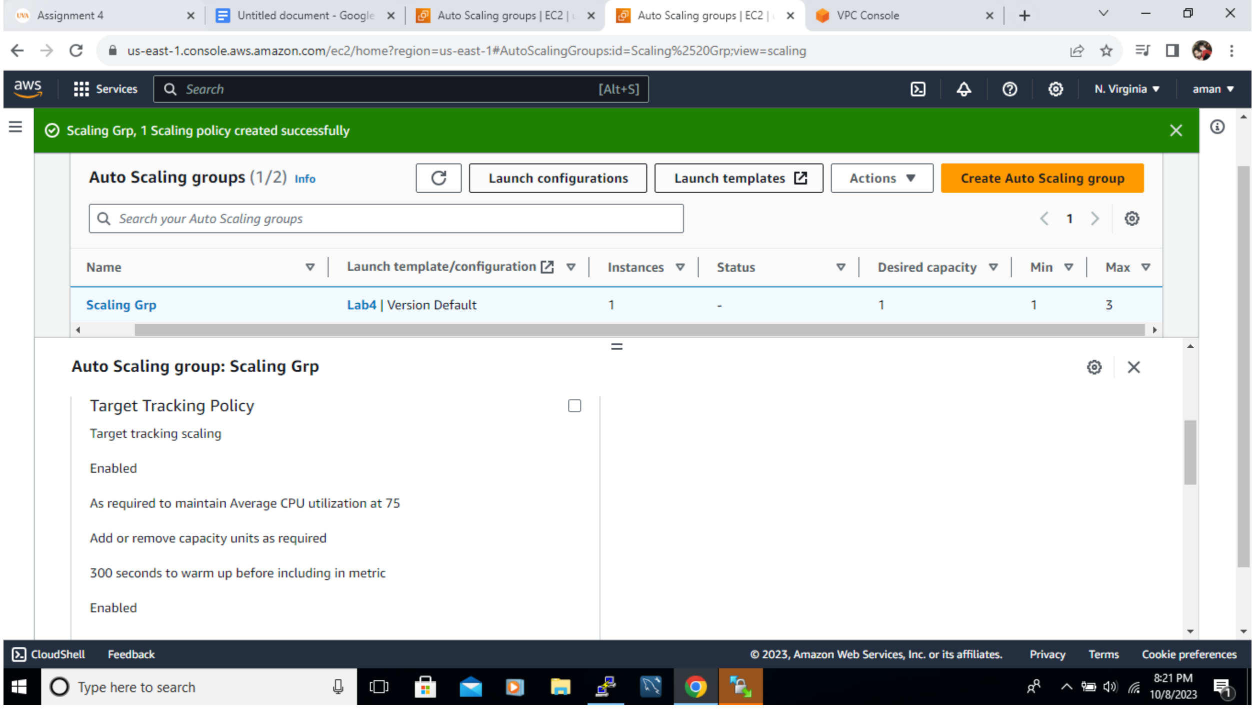
Group size

Desired capacity	Minimum capacity	Maximum capacity
1	1	3

Scaling policy

Target tracking scaling

Policy type	Scaling policy name	Execute policy when
Target tracking scaling	Target Tracking Policy	As required to maintain Average CPU utilization at 75
Take the action	**Instances need**	**Scale in**
Add or remove capacity units as required	300 seconds to warm up before including in metric	Enabled


Assignment 4
Untitled document - Google
Auto Scaling groups | EC2 |
Auto Scaling groups | EC2 |
VPC Console
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AutoScalingGroups:id=Scaling%2520Grp;view=scaling
aws
Services
Search
[Alt+S]
N. Virginia
aman
Info
Launch configurations
Launch templates
Actions
Create Auto Scaling group
Search your Auto Scaling groups
1
CloudShell
Feedback
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Type here to search
8:21 PM
10/8/2023

Scaling Grp, 1 Scaling policy created successfully

Auto Scaling groups (1/2)

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max
Scaling Grp	Lab4 | Version Default	1	-	1	1	3

Auto Scaling group: Scaling Grp

Target Tracking Policy ☐

Target tracking scaling

Enabled

As required to maintain Average CPU utilization at 75

Add or remove capacity units as required

300 seconds to warm up before including in metric

Enabled