Assignment:

1. Install tomcat on the amazon linux machine

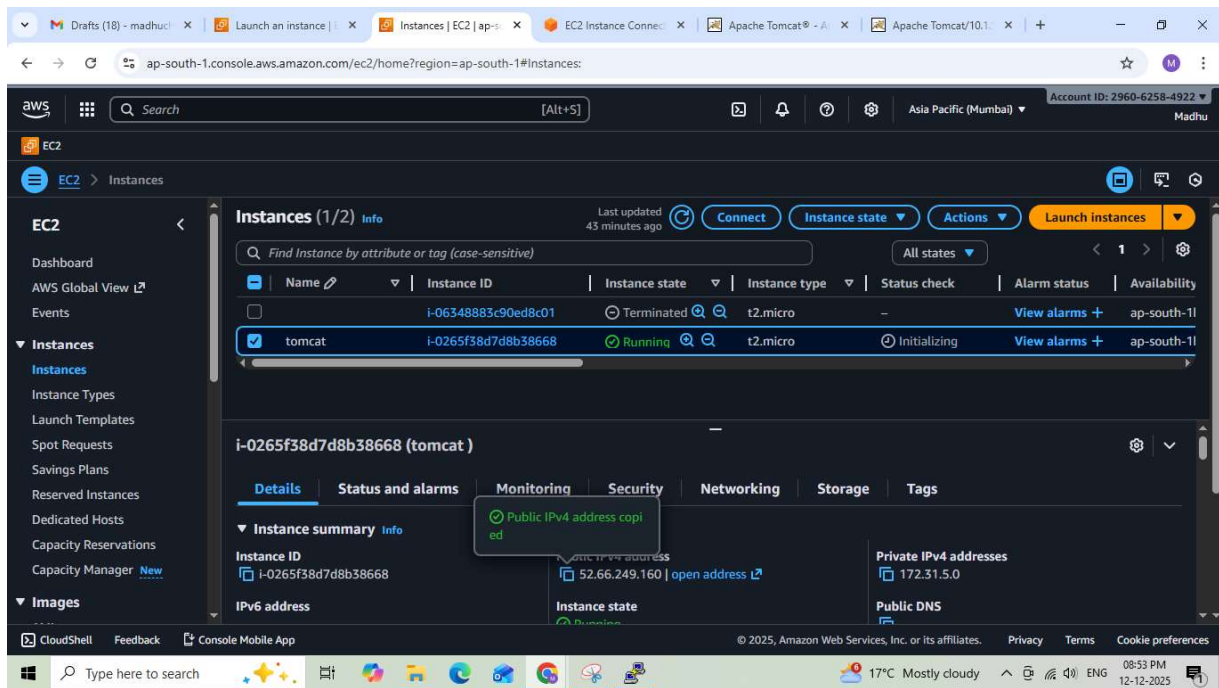Step1: First install java in the server

Step2: Install wget which enables to download application through url
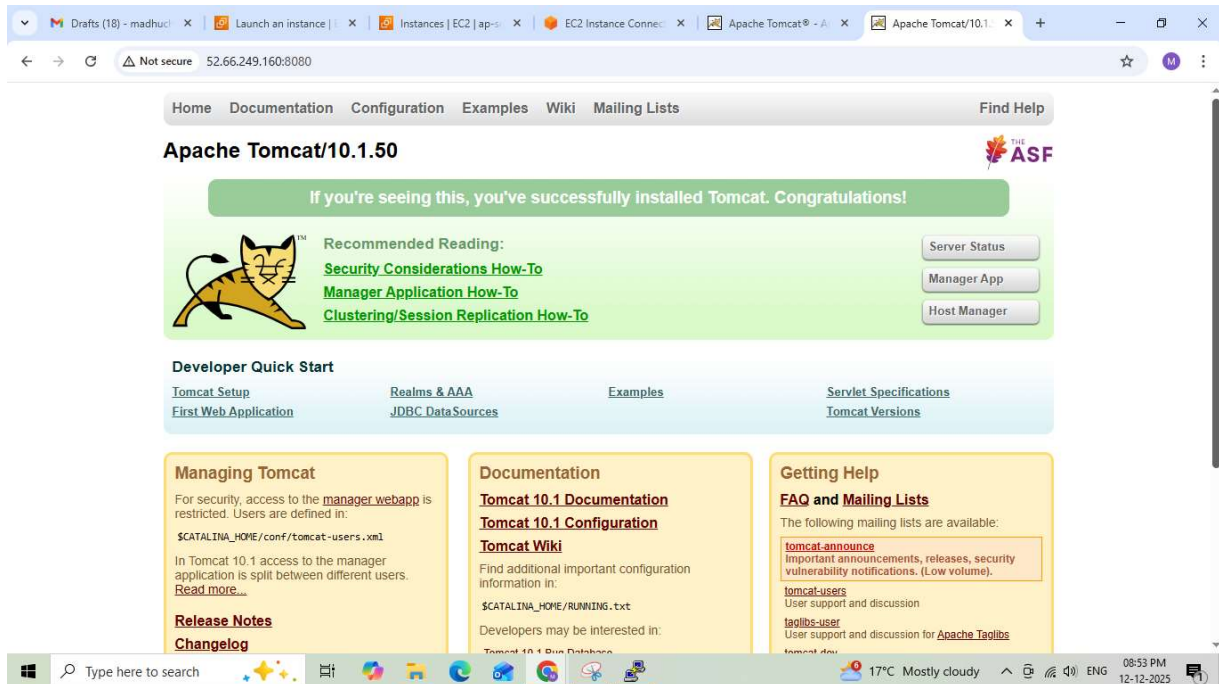
Step3: Wget → Copy latest version of tomcat download link and paste to download tomcat application (this will download zip file)

Step4: tar -zvxf → Extract zip file

Step5: Start the tomcat using sh startup.sh

Step6: publicIP:8080

To edit Manager App

- o Vi /home/ec2-user/apache-tomcat-10.1.50/webapps/manager/META-INF/context.xml

```
<!--    <Valve className="org.apache.catalina.valves.RemoteCIDRValve"
  allow="127.0.0.0/8,::1/128" /> -->
```

To edit Host-Manager App

- o Vi /home/ec2-user/apache-tomcat-10.1.50/webapps/host-manager/META-INF/context.xml

```
<!--    <Valve className="org.apache.catalina.valves.RemoteCIDRValve"
  allow="127.0.0.0/8,::1/128" /> -->
```

- o Vi /home/ec2-user/apache-tomcat-10.1.50/conf/tomcat-user.xml
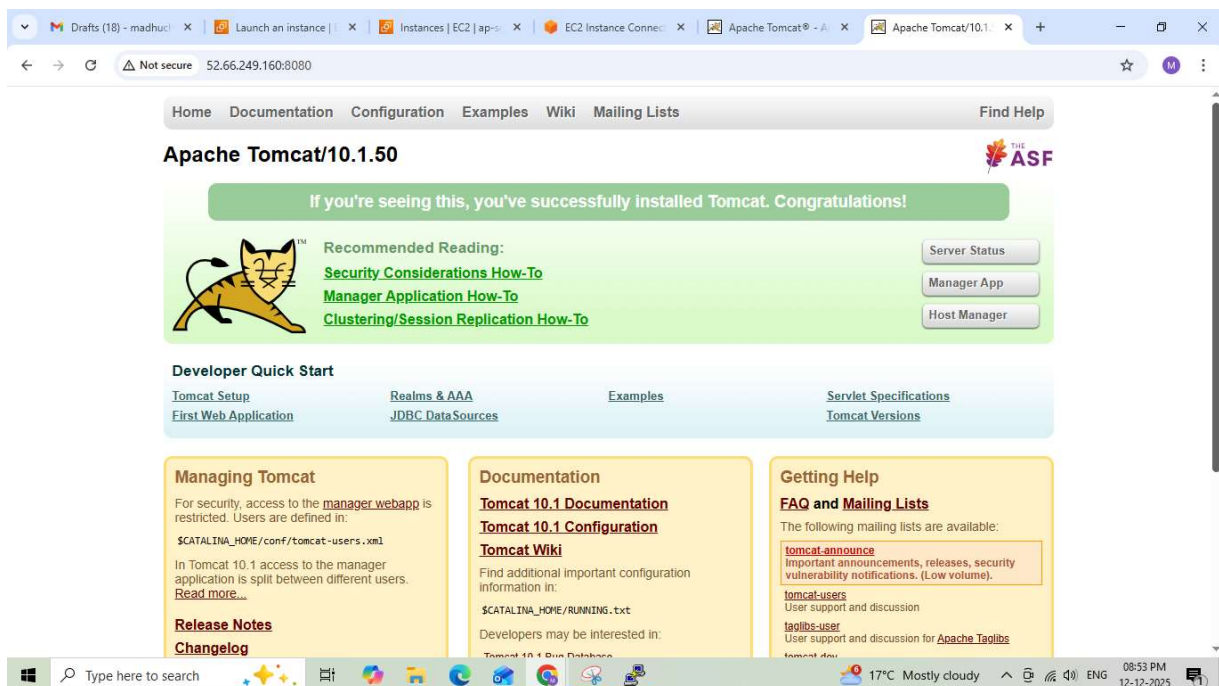
```
<!--
  <role rolename="manager-gui"/>
  <role rolename="role1"/>
  <user username="admin" password="admin" roles="manager-gui"/>
  <user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
  <user username="role1" password="<must-be-changed>" roles="role1"/>
-->
<user username="admin" password="admin" roles="manager-gui,admin-gui"/>
</tomcat-users>
```

```xml
<role rolename="manager-gui"/>
 <role rolename="role1"/>
 <user username="admin" password="admin" roles="manager-gui"/>
 <user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
 <user username="role1" password="<must-be-changed>" roles="role1"/>
-->
<user username="admin" password="admin" roles="manager-gui,admin-gui"/>
```


Manager APP:

Host Manager App:

2. Change the port to 8090


```
[ec2-user@ip-172-31-5-0 ~]$ ls
apache-tomcat-10.1.50  apache-tomcat-10.1.50.tar.gz
[ec2-user@ip-172-31-5-0 ~]$
[ec2-user@ip-172-31-5-0 ~]$ cd apache-tomcat-10.1.50/conf/
[ec2-user@ip-172-31-5-0 conf]$ ls
Catalina           catalina.properties  jaspic-providers.xml  logging.properties  tomcat-users.xml  web.xml
catalina.policy   context.xml          jaspic-providers.xsd  server.xml          tomcat-users.xsd
[ec2-user@ip-172-31-5-0 conf]$ vi server.xml
[ec2-user@ip-172-31-5-0 conf]$ vi server.xml
[ec2-user@ip-172-31-5-0 conf]$ vi server.xml
[ec2-user@ip-172-31-5-0 conf]$ cd ..
[ec2-user@ip-172-31-5-0 apache-tomcat-10.1.50]$ cd bin/
[ec2-user@ip-172-31-5-0 bin]$ sh shutdown.sh
Using CATALINA_BASE:   /home/ec2-user/apache-tomcat-10.1.50
Using CATALINA_HOME:   /home/ec2-user/apache-tomcat-10.1.50
Using CATALINA_TMPDIR: /home/ec2-user/apache-tomcat-10.1.50/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /home/ec2-user/apache-tomcat-10.1.50/bin/bootstrap.jar:/home/ec2-user/apache-tomcat-10.1.50/bin/tom
cat-juli.jar
Using CATALINA_OPTS:
[ec2-user@ip-172-31-5-0 bin]$ sh startup.sh
Using CATALINA_BASE:   /home/ec2-user/apache-tomcat-10.1.50
Using CATALINA_HOME:   /home/ec2-user/apache-tomcat-10.1.50
Using CATALINA_TMPDIR: /home/ec2-user/apache-tomcat-10.1.50/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /home/ec2-user/apache-tomcat-10.1.50/bin/bootstrap.jar:/home/ec2-user/apache-tomcat-10.1.50/bin/tom
cat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
[ec2-user@ip-172-31-5-0 bin]$
```

In this Connector port changed from 8080 to 8090:

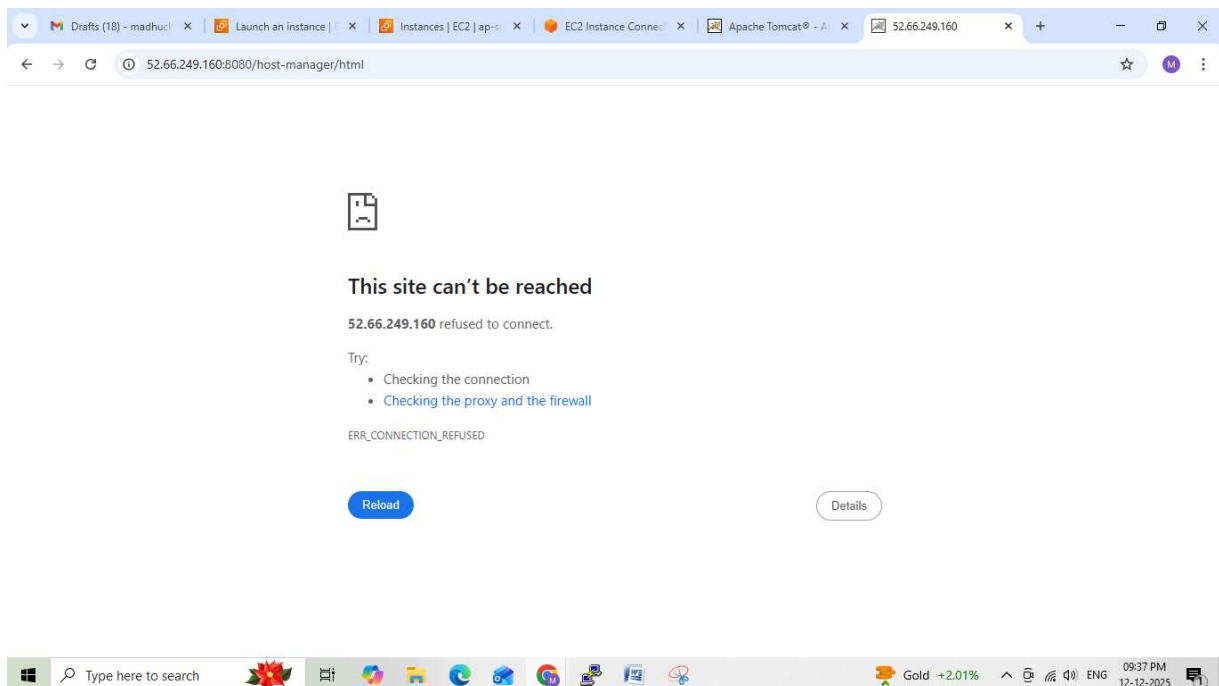```
<Service name="Catalina">

    <!--The connectors can use a shared executor, you can define one or more named thread pools-->
    <!--
    <Executor name="tomcatThreadPool" namePrefix="catalina-exec-"
        maxThreads="150" minSpareThreads="4"/>
    -->

    <!-- A "Connector" represents an endpoint by which requests are received
         and responses are returned. Documentation at :
         HTTP Connector: /docs/config/http.html
         AJP Connector: /docs/config/ajp.html
         Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
    -->
    <Connector port="8090" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443"
               maxParameterCount="1000"
               />
    <!-- A "Connector" using the shared thread pool-->
    <!--
    <Connector executor="tomcatThreadPool"
               port="8080" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443"
               maxParameterCount="1000"
               />
    -->
    <!-- Define an SSL/TLS HTTP/1.1 Connector on port 8443 with HTTP/2
         This connector uses the NIO implementation. The default
         SSLImplementation will depend on the presence of the APR/native
-- INSERT --   72,25   41%
```

8080 port is not working



Change the port from 8080 to 8090, the manager App and Host Manager App working.

## 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<br>Expire sessions with idle ≥ 30 minutes |
| /docs | None specified | Tomcat Documentation | true | 0 | Start Stop Reload Undeploy<br>Expire sessions with idle ≥ 30 minutes |
| /examples | None specified | Servlet and JSP Examples | true | 0 | Start Stop Reload Undeploy<br>Expire sessions with idle ≥ 30 minutes |
| /host-manager | None specified | Tomcat Host Manager Application | true | 0 | Start Stop Reload Undeploy<br>Expire sessions with idle ≥ 30 minutes |
| /manager | None specified | Tomcat Manager Application | true | 1 | Start Stop Reload Undeploy<br>Expire sessions with idle ≥ 30 minutes |

Host manager App



## Tomcat Virtual Host Manager

| Message: | OK |
|---|---|

### Host Manager

| List Virtual Hosts | HTML Host Manager Help | Host Manager | Status |
|---|---|---|---|

### Host name

| Host name | Host aliases | Commands |
|---|---|---|
| localhost | | Host Manager installed - commands disabled |

### Add Virtual Host

### Host

| Name: | |
|---|---|
| Aliases: | |
| App base: | |
| AutoDeploy | ☑ |
| DeployOnStartup | ☑ |
| DeployXML | ☑ |
| UnpackWARs | ☑ |

Save password?

Username admin
Password •••••

Save Never

You can use saved passwords on any device. They're saved to Google Password Manager for madhuchandan9741@gmail.com.