

Assignment:

1. Install tomcat on the amazon linux machine

Step1: First install java in the server

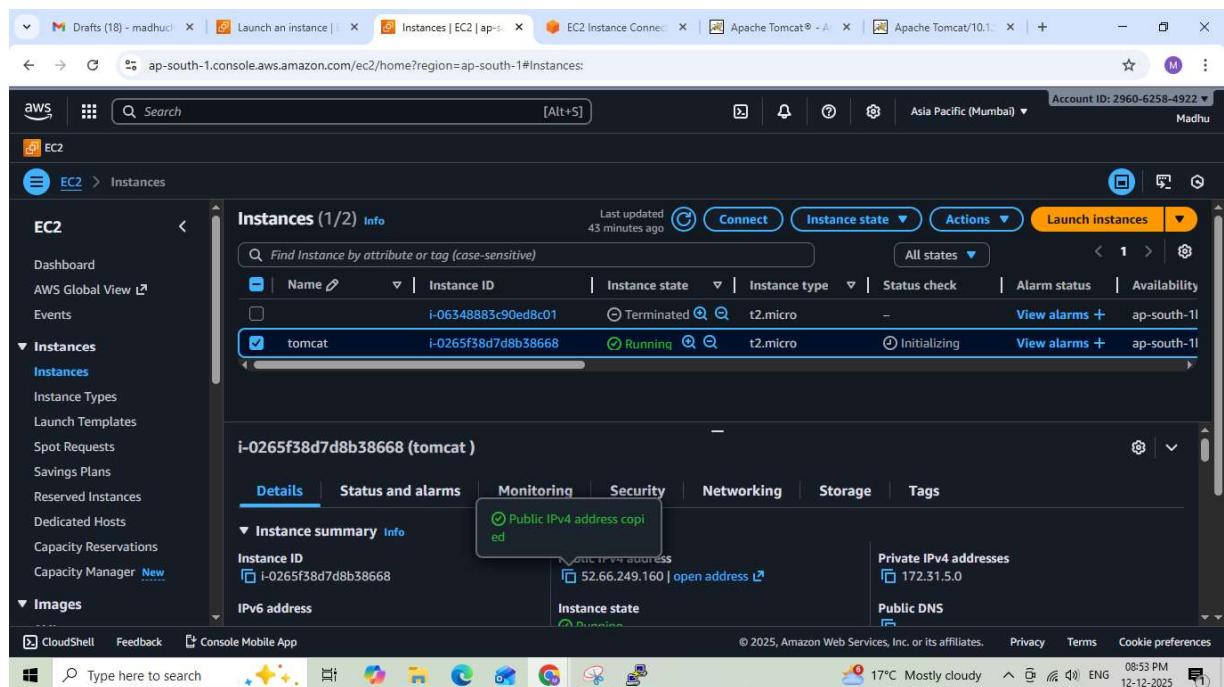
Step2: Install wget which enables to download application through url

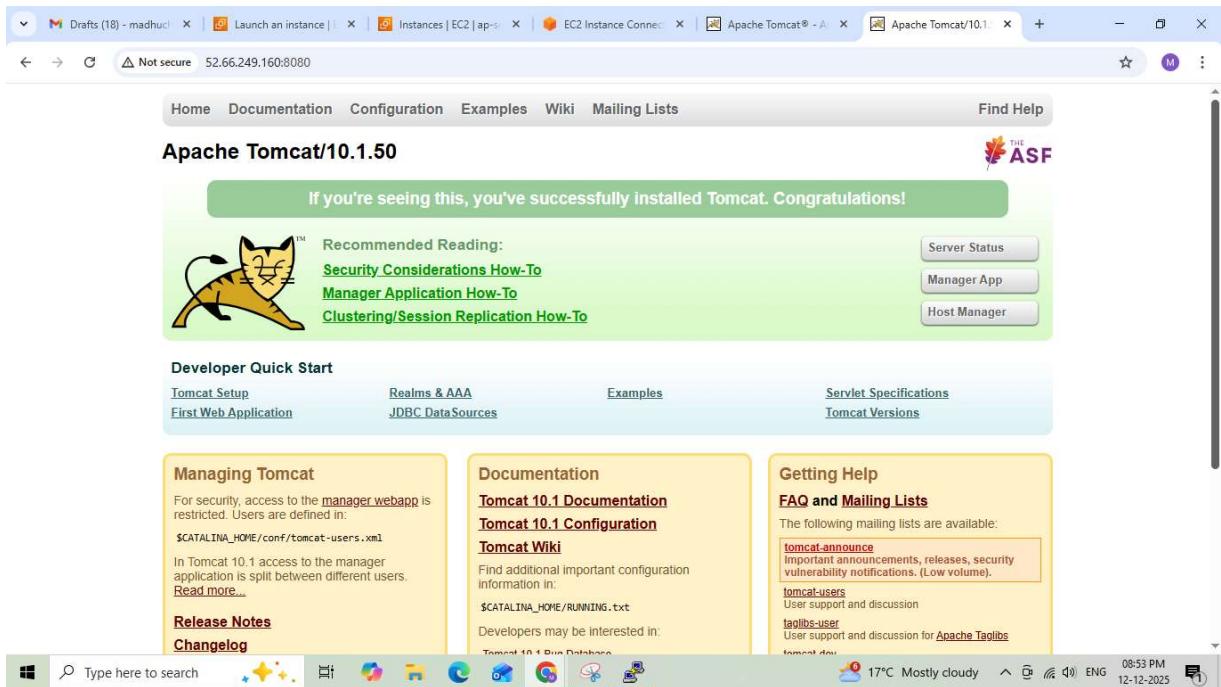
Step3: Wget → **Copy latest version of tomcat download link and paste to download tomcat application**
(this will download zip file)

Step4: tar -zvxf → Extract zip file

Step5: Start the tomcat using sh startup.sh

Step6: publicIP:8080





To edit Manager App

- 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

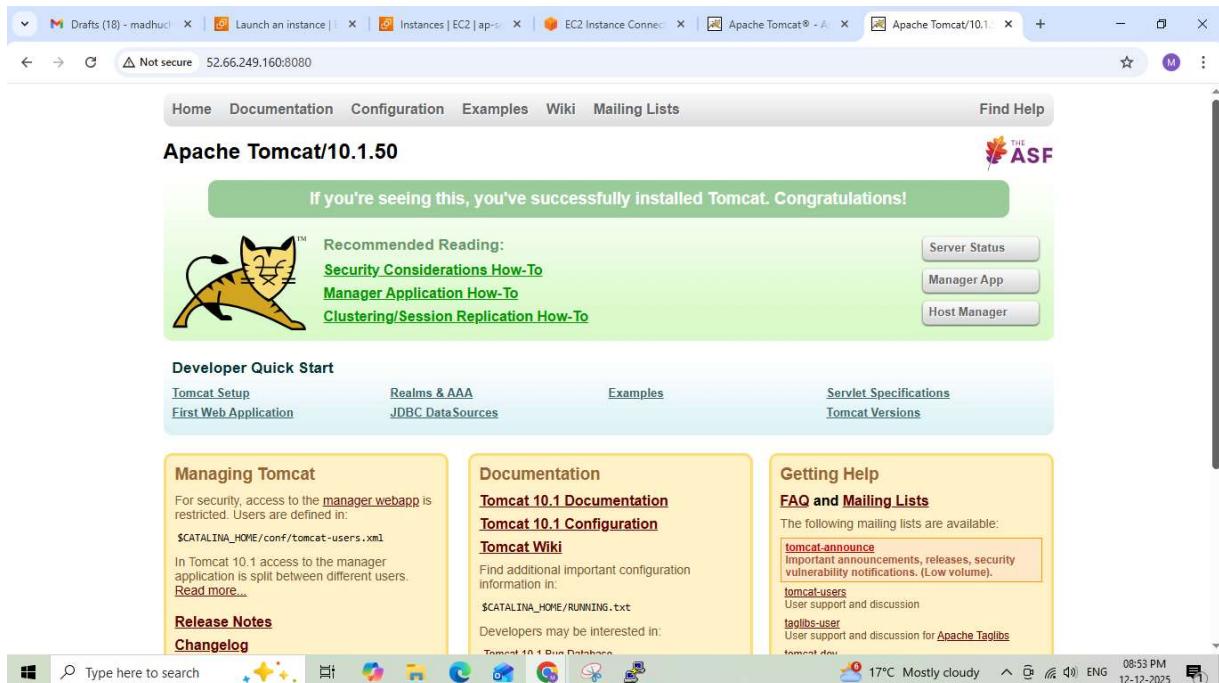
- Vi /home/ec2-user/apache-tomcat-10.1.50/webapps/host-manager/META-INF/context.xml

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

- 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="" roles="tomcat,role1"/>
<user username="role1" password="" roles="role1"/>
-->
<user username="admin" password="admin" roles="manager-gui,admin-gui"/>
</tomcat-users>
```

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



Manager APP:

The screenshot shows the Tomcat Web Application Manager interface. At the top, there is a navigation bar with tabs for 'Manager', 'List Applications', 'HTML Manager Help', 'Manager Help', and 'Server Status'. Below the navigation bar is a section titled 'Applications' with a table. The table has columns for Path, Version, Display Name, Running, Sessions, and Commands. The applications listed are:

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

At the bottom of the interface, there is a search bar and a toolbar with various icons.

Host Manager App:

The screenshot shows the Tomcat Virtual Host Manager interface. At the top, there is a navigation bar with tabs for 'Host Manager', 'List Virtual Hosts', 'HTML Host Manager Help', 'Host Manager Help', and 'Server Status'. Below the navigation bar is a section titled 'Host name' with a table. The table has columns for Host name and Host aliases. There is one entry: 'localhost' with 'Host Manager installed - commands disabled'. Below this is a section titled 'Add Virtual Host' with a form. The form has fields for Name, Aliases, App base, and several checkboxes for deployment options: AutoDeploy, DeployOnStartup, DeployXML, and UnpackWARs. The checkboxes for DeployOnStartup, DeployXML, and UnpackWARs are checked. At the bottom of the interface, there is a search bar and a toolbar with various icons.

2. Change the port to 8090

```
ec2-user@ip-172-31-5-0:~/apache-tomcat-10.1.50/bin
[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/tomcat-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/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
[ec2-user@ip-172-31-5-0 bin]$
```

Windows taskbar showing search bar, pinned icons (File Explorer, Edge, File History, Task View, Taskbar Help), system tray with battery level (18°C, Mostly clear, 09:35 PM, 12-12-2025).

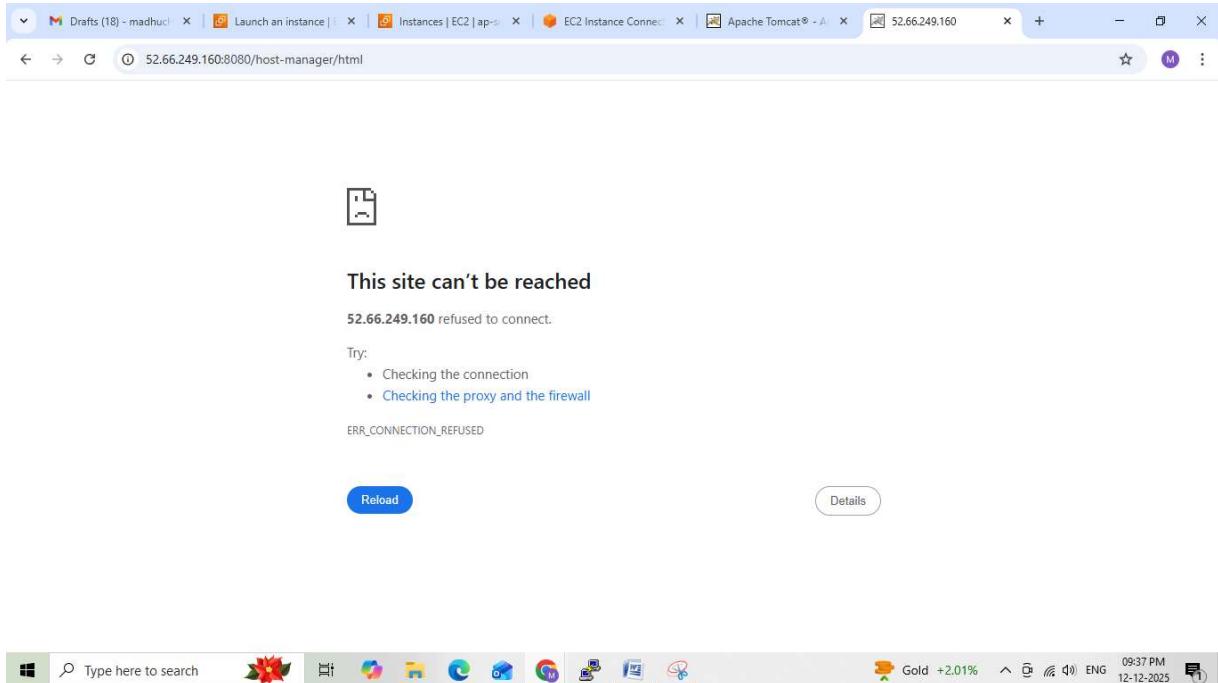
In this Connector port changed from 8080 to 8090:

```
<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"/>
    -->

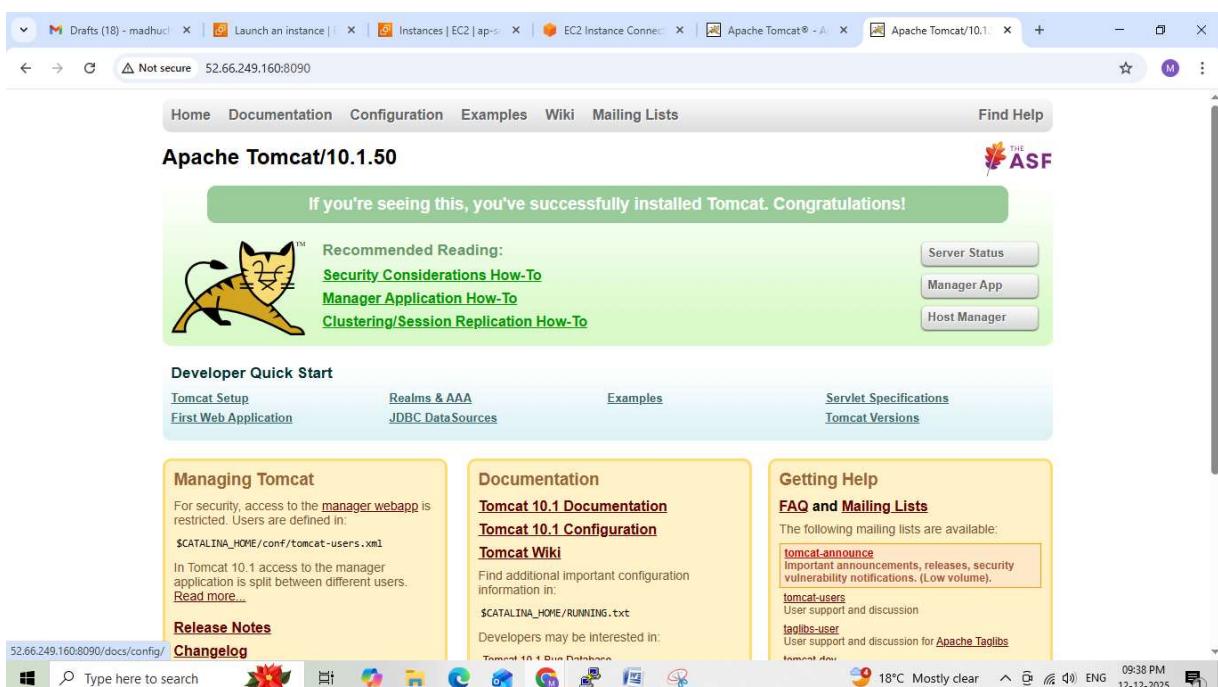
    <!-- A "Connector" represents an endpoint by which requests are received
        and responses are returned. Documentation at :
            HTTP Connector: /docs/config/http.html
            AJP Connector: /docs/config/ajp.html
            Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
    -->
    <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 --
```

Windows taskbar showing search bar, pinned icons (File Explorer, Edge, File History, Task View, Taskbar Help), system tray with battery level (72, 25%, 41%, 18°C, Mostly clear, 09:34 PM, 12-12-2025).

8080 port is not working



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



The screenshot shows the Tomcat Web Application Manager interface. At the top, there is a logo of a cartoon cat and the text "THE ASF". Below the logo, the title "Tomcat Web Application Manager" is displayed. A message box says "Message: OK". The main area is titled "Manager" and contains tabs for "List Applications", "HTML Manager Help", "Manager Help", and "Server Status". The "Applications" section 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
/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

At the bottom of the screen, there is a taskbar with various icons and system status information: 18°C Mostly clear, 09:38 PM, 12-12-2025.

Host manager App

The screenshot shows the Tomcat Virtual Host Manager interface. At the top, there is a logo of a cartoon cat and the title "Tomcat Virtual Host Manager". A message box says "Message: OK". The main area is titled "Host Manager" and contains tabs for "List Virtual Hosts", "HTML Host Manager Help", and "Host Manager". The "Host name" section shows a single entry for "localhost". The "Commands" column indicates "Host Manager installed - commands disabled". On the right side, a modal dialog is open for saving a password, with fields for "Username" (admin) and "Password" (*****). It includes options for "Save" and "Never". A note at the bottom of the dialog says: "You can use saved passwords on any device. They're saved to Google Password Manager for madhuchandan9741@gmail.com." The bottom of the screen features a taskbar with various icons and system status information: 18°C Mostly clear, 09:39 PM, 12-12-2025.