

Setup Tomcat Server

- Setup a Linux EC2 Instance
- Install Java
- Configure Tomcat
- Start Tomcat Server
- Access Web UI on port 8080



Tomcat Server



Type here to search



8:07 AM
11/24/2023



Goto-> tomcat server->binary distributions->tar.gz file

The screenshot shows the Apache Tomcat download page for version 9.0.54. The browser tabs include 'Instances | EC2 Management Co...', 'Simple-DevOps-Project/tomcat...', 'Dashboard [Jenkins]', and 'Apache Tomcat® - Apache Tom...'. The address bar shows 'tomcat.apache.org/download-90.cgi'. The left sidebar contains links for Tomcat versions, documentation, problems, and media. The main content area shows the 'Mirrors' section with the current mirror 'https://dclcdn.apache.org/'. Below this, the '9.0.54' section is highlighted, followed by a link to the 'README' file. The 'Binary Distributions' section lists various download options, including 'Core' (zip, tar.gz, 32-bit Windows zip, 64-bit Windows zip, 32-bit/64-bit Windows Service Installer), 'Full documentation' (tar.gz), 'Deployer' (zip, tar.gz), and 'Embedded' (tar.gz, zip). The 'Source Code Distributions' section lists 'tar.gz' and 'zip' options. The status bar at the bottom shows the Windows taskbar with the search bar and system clock.

Instances | EC2 Management Co... x Simple-DevOps-Project/tomcat... x Dashboard [Jenkins] x Apache Tomcat® - Apache Tom... x

tomcat.apache.org/download-90.cgi

Tomcat 9
Tomcat 8
Tomcat Migration Tool for Jakarta EE
Tomcat Connectors
Tomcat Native
Taglibs
Archives

Documentation
Tomcat 10.1 (alpha)
Tomcat 10.0
Tomcat 9.0
Tomcat 8.5
Tomcat Connectors
Tomcat Native
Wiki
Migration Guide
Presentations
Specifications

Problems?
Security Reports
Find help
FAQ
Mailing Lists
Bug Database
IRC

Get Involved
Overview
Source code
Buildbot
Translations
Tools

Media
Twitter
YouTube

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://dclcdn.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:

9.0.54

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 \(pgp, sha512\)](#)

<https://dclcdn.apache.org/tomcat/tomcat-9/v9.0.54/bin/apache-tomcat-9.0.54.tar.gz>

Type here to search

8:10 AM
11/24/2023

Launch new ec2 instance with modifications to add tags and security group

The screenshot displays the AWS Management Console's 'Launch Instance Wizard' at Step 5: Add Tags. The breadcrumb navigation shows the steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags (current step), 6. Configure Security Group, and 7. Review. The page title is 'Step 5: Add Tags'. Below the title, a brief explanation states: 'A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.'

The 'Add Tags' section features a table with columns for 'Key', 'Value', and three checkboxes for 'Instances', 'Volumes', and 'Network Interfaces'. A single tag is being added with the key 'Name' and the value 'Tomcat_Server'. All three checkboxes are checked. Below the table, there is a button 'Add another tag' with the note '(Up to 50 tags maximum)'. At the bottom of the console window, the video player controls are visible, showing the video title '00015 Set_Up_a_Tomcat_Server', a progress bar at 0:02:02, and navigation buttons. The Windows taskbar at the very bottom shows the system clock as 8:39 AM on 11/24/2023.

Launch instance wizard | EC2 M... xSimple-DevOps-Project/tomcat... xDashboard [Jenkins] xApache Tomcat® - Apache Tom... x

console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

awsServicesSearch for services, features, marketplace products, and docs[Alt+S]Valaxy TechnologiesN. VirginiaSupport

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group
☐ Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
Custom TCP	TCP	8080	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Add Rule

Warning

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.

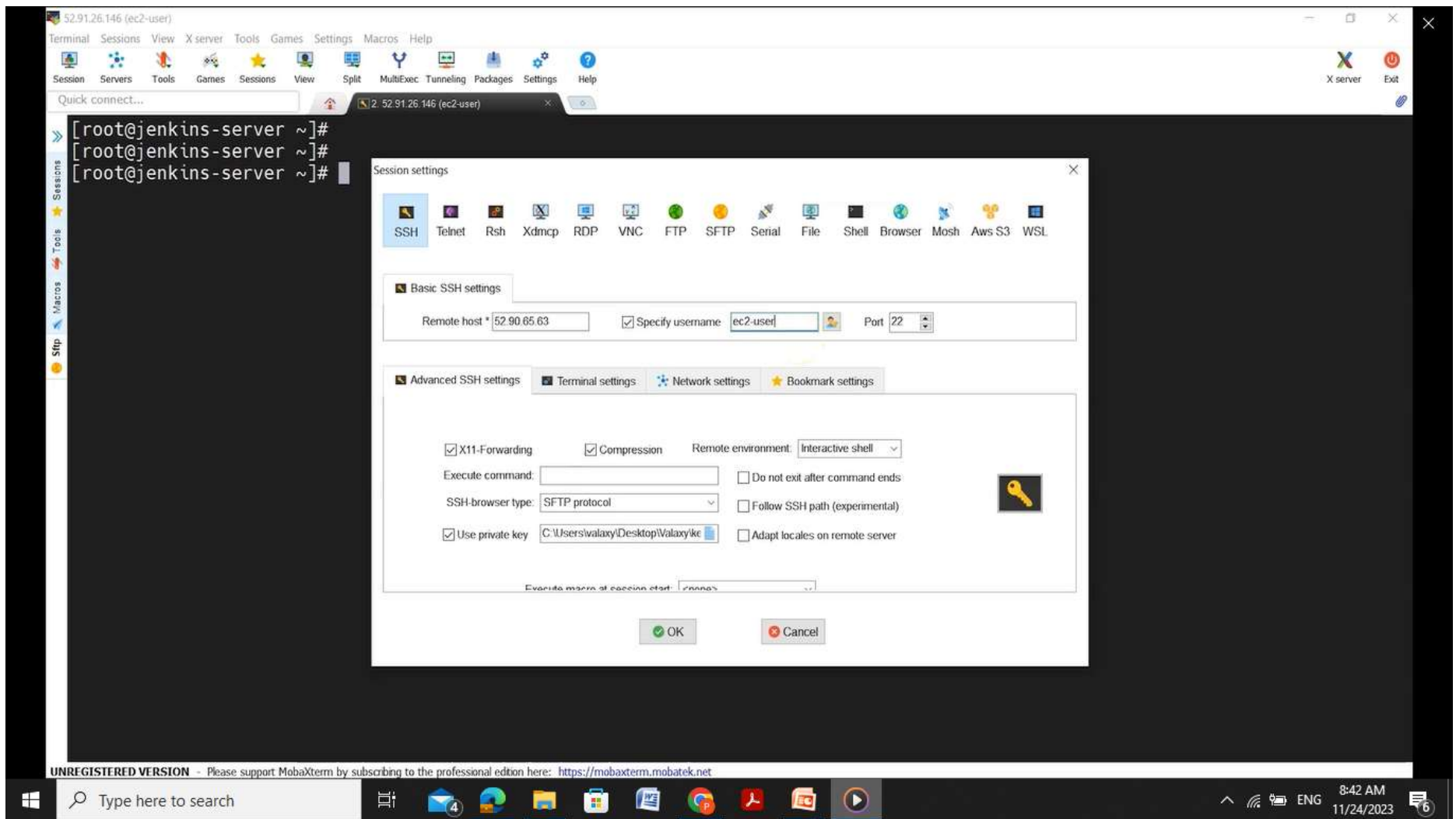
CancelPreviousReview and Launch

FeedbackEnglish (US)© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.Privacy PolicyTerms of UseCookie preferences

Type here to search

8:40 AM11/24/2023

Copy the public IP from the instance and start ssh in mobaxterm



Now change to root directory and install java

Install Java

```
yum install java-1.8*
```

Install Tomcat

```
sudo su -  
  
cd /  
  
cd /opt  
  
#Download tomcat binary  
wget https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.55/bin/apache-  
tomcat-9.0.55.tar.gz  
  
#unzip tomcat binary  
tar -zxvf apache-tomcat-9.0.55.tar.gz
```



```
>> 59 postgresql13          available [ =stable ]
60 mock2                   available [ =stable ]
61 dnsmasq2.85             available [ =stable ]
[root@ip-172-31-81-112 ~]# java -version
openjdk version "11.0.12" 2021-07-20 LTS
OpenJDK Runtime Environment 18.9 (build 11.0.12+7-LTS)
OpenJDK 64-Bit Server VM 18.9 (build 11.0.12+7-LTS, mixed mode, sharing)
[root@ip-172-31-81-112 ~]# pwd
/root
[root@ip-172-31-81-112 ~]# cd /opt
[root@ip-172-31-81-112 opt]# ll
total 0
drwxr-xr-x 4 root root 33 Oct 11 21:54 aws
drwxr-xr-x 2 root root  6 Aug 16 2018 rh
[root@ip-172-31-81-112 opt]# wget https://d1cdn.apache.org/tomcat/tomcat-9/v9.0.54/bin/apache-tomcat-9.0.54.tar.gz
--2021-11-07 08:17:57-- https://d1cdn.apache.org/tomcat/tomcat-9/v9.0.54/bin/apache-tomcat-9.0.54.tar.gz
Resolving d1cdn.apache.org (d1cdn.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to d1cdn.apache.org (d1cdn.apache.org)|151.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11576317 (11M) [application/x-gzip]
Saving to: 'apache-tomcat-9.0.54.tar.gz'

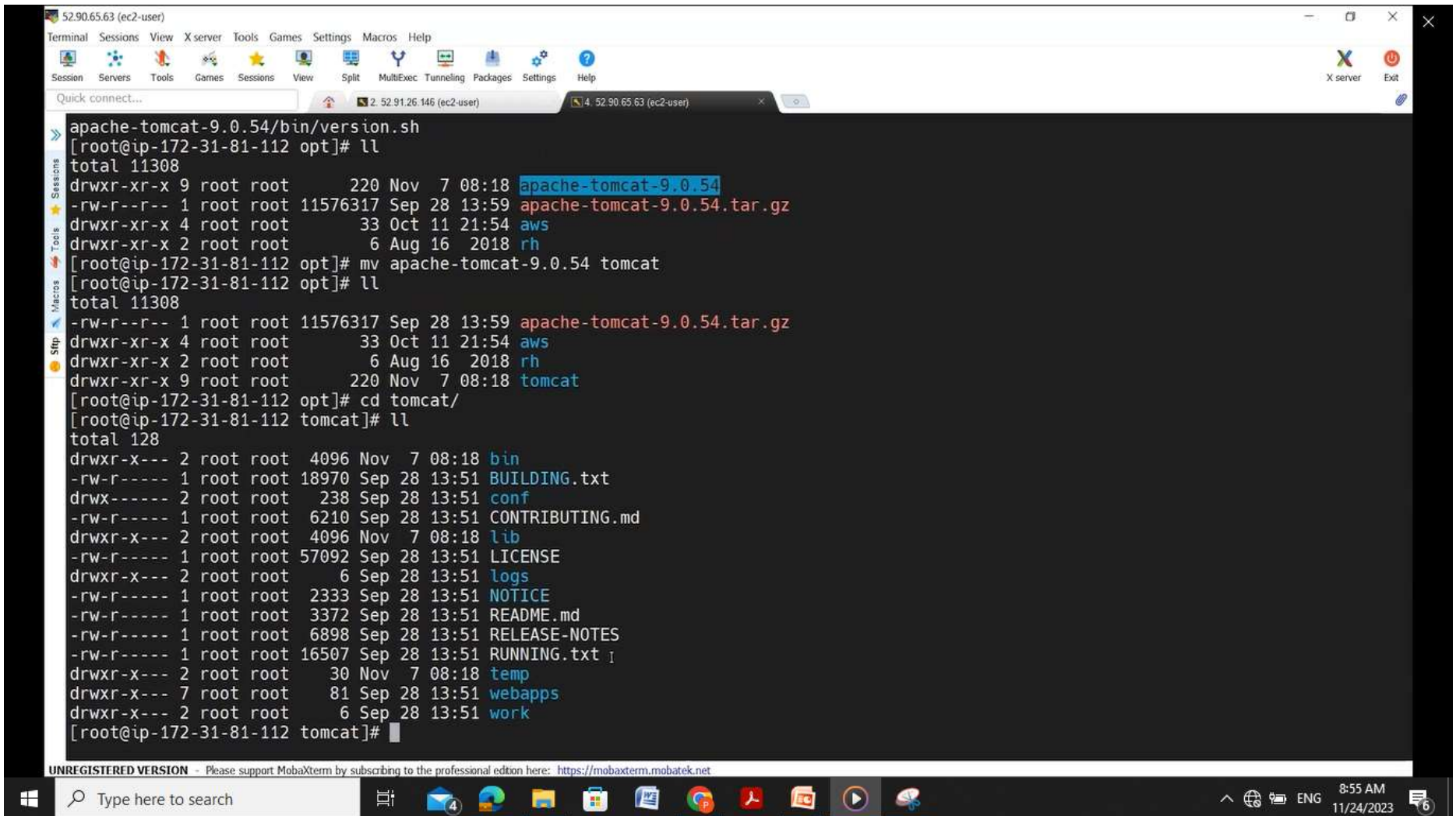
100%[=====>] 11,576,317  --.-K/s   in 0.05s

2021-11-07 08:17:58 (244 MB/s) - 'apache-tomcat-9.0.54.tar.gz' saved [11576317/11576317]

[root@ip-172-31-81-112 opt]# ll
total 11308
-rw-r--r-- 1 root root 11576317 Sep 28 13:59 apache-tomcat-9.0.54.tar.gz
drwxr-xr-x 4 root root      33 Oct 11 21:54 aws
drwxr-xr-x 2 root root      6 Aug 16 2018 rh
[root@ip-172-31-81-112 opt]# tar -xvzf apache-tomcat-9.0.54.tar.gz
```



Move the tomcat -9.0.54 to just tomcat and move to bin directory



```
52.90.65.63 (ec2-user)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect... 2. 52.91.26.145 (ec2-user) 4. 52.90.65.63 (ec2-user)
apache-tomcat-9.0.54/bin/version.sh
[root@ip-172-31-81-112 opt]# ll
total 11308
drwxr-xr-x 9 root root      220 Nov  7 08:18 apache-tomcat-9.0.54
-rw-r--r-- 1 root root 11576317 Sep 28 13:59 apache-tomcat-9.0.54.tar.gz
drwxr-xr-x 4 root root      33 Oct 11 21:54 aws
drwxr-xr-x 2 root root      6 Aug 16 2018 rh
[root@ip-172-31-81-112 opt]# mv apache-tomcat-9.0.54 tomcat
[root@ip-172-31-81-112 opt]# ll
total 11308
-rw-r--r-- 1 root root 11576317 Sep 28 13:59 apache-tomcat-9.0.54.tar.gz
drwxr-xr-x 4 root root      33 Oct 11 21:54 aws
drwxr-xr-x 2 root root      6 Aug 16 2018 rh
drwxr-xr-x 9 root root      220 Nov  7 08:18 tomcat
[root@ip-172-31-81-112 opt]# cd tomcat/
[root@ip-172-31-81-112 tomcat]# ll
total 128
drwxr-x--- 2 root root  4096 Nov  7 08:18 bin
-rw-r----- 1 root root 18970 Sep 28 13:51 BUILDING.txt
drwx----- 2 root root   238 Sep 28 13:51 conf
-rw-r----- 1 root root  6210 Sep 28 13:51 CONTRIBUTING.md
drwxr-x--- 2 root root  4096 Nov  7 08:18 lib
-rw-r----- 1 root root 57092 Sep 28 13:51 LICENSE
drwxr-x--- 2 root root    6 Sep 28 13:51 logs
-rw-r----- 1 root root  2333 Sep 28 13:51 NOTICE
-rw-r----- 1 root root  3372 Sep 28 13:51 README.md
-rw-r----- 1 root root  6898 Sep 28 13:51 RELEASE-NOTES
-rw-r----- 1 root root 16507 Sep 28 13:51 RUNNING.txt
drwxr-x--- 2 root root    30 Nov  7 08:18 temp
drwxr-x--- 7 root root    81 Sep 28 13:51 webapps
drwxr-x--- 2 root root    6 Sep 28 13:51 work
[root@ip-172-31-81-112 tomcat]#
```

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Type here to search

8:55 AM 11/24/2023

Check for tomcat installation by using the public IP and the local port address 8080

The screenshot shows a web browser window with the Apache Tomcat/9.0.54 interface. The address bar shows the URL `52.90.65.63:8080`. The page has a navigation bar with links: Home, Documentation, Configuration, Examples, Wiki, Mailing Lists, and Find Help. The main heading is "Apache Tomcat/9.0.54". Below this, a green banner says "If you're seeing this, you've successfully installed Tomcat. Congratulations!". To the left of this banner is the Tomcat logo. To the right, there are three buttons: "Server Status", "Manager App" (which is highlighted with a mouse cursor), and "Host Manager". Below the banner, there is a "Recommended Reading" section with links to "Security Considerations How-To", "Manager Application How-To", and "Clustering/Session Replication How-To". Further down, there is a "Developer Quick Start" section with links to "Tomcat Setup", "First Web Application", "Realms & AAA", "JDBC DataSources", "Examples", "Servlet Specifications", and "Tomcat Versions". At the bottom, there are three yellow boxes: "Managing Tomcat" (with links to "Release Notes", "Changelog", "Migration Guide", and "Security Notices"), "Documentation" (with links to "Tomcat 9.0 Documentation", "Tomcat 9.0 Configuration", "Tomcat Wiki", and "Tomcat 9.0 Bug Database"), and "Getting Help" (with links to "FAQ and Mailing Lists" and a list of mailing lists including "tomcat-announce", "tomcat-users", "taglibs-user", "tomcat-dev", and "tomcat-announce"). The Windows taskbar is visible at the bottom, showing the search bar and various application icons.

Now got to manager app present on the right top corner which should result in error

The screenshot shows a web browser window with multiple tabs. The active tab is titled "403 Access Denied" and the address bar shows "Not secure | 52.90.65.63:8080/manager/html". The page content is as follows:

403 Access Denied

You are not authorized to view this page.

By default the Manager is only accessible from a browser running on the same machine as Tomcat. If you wish to modify this restriction, you'll need to edit the Manager's `context.xml` file.

If you have already configured the Manager application to allow access and you have used your browsers back button, used a saved book-mark or similar then you may have triggered the cross-site request forgery (CSRF) protection that has been enabled for the HTML interface of the Manager application. You will need to reset this protection by returning to the [main Manager page](#). Once you return to this page, you will be able to continue using the Manager application's HTML interface normally. If you continue to see this access denied message, check that you have the necessary permissions to access this application.

If you have not changed any configuration files, please examine the file `conf/tomcat-users.xml` in your installation. That file must contain the credentials to let you use this webapp.

For example, to add the `manager-gui` role to a user named `tomcat` with a password of `s3cret`, add the following to the config file listed above.

```
<role rolename="manager-gui"/>
<user username="tomcat" password="s3cret" roles="manager-gui"/>
```

Note that for Tomcat 7 onwards, the roles required to use the manager application were changed from the single `manager` role to the following four roles. You will need to assign the role(s) required for the functionality you wish to access.

- `manager-gui` - allows access to the HTML GUI and the status pages
- `manager-script` - allows access to the text interface 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

The HTML interface is protected against CSRF but the text and JMX interfaces are not. To maintain the CSRF protection:

- Users with the `manager-gui` role should not be granted either the `manager-script` or `manager-jmx` roles.
- If the text or jmx interfaces are accessed through a browser (e.g. for testing since these interfaces are intended for tools not humans) then the browser must be closed afterwards to terminate the session.

For more information - please see the [Manager App How-To](#).

So we need to edit the context.xml file in order to rectify the error. Do the following steps by moving to tomcat

```
[root@ip-172-31-81-112 bin]# cd ../../
[root@ip-172-31-81-112 opt]# pwd
/opt
[root@ip-172-31-81-112 opt]# ll
total 11308
-rw-r--r-- 1 root root 11576317 Sep 28 13:59 apache-tomcat-9.0.54.tar.gz
drwxr-xr-x 4 root root      33 Oct 11 21:54 aws
drwxr-xr-x 2 root root      6 Aug 16 2018 rh
drwxr-xr-x 9 root root    220 Nov 7 08:18 tomcat
[root@ip-172-31-81-112 opt]# cd tomcat/
[root@ip-172-31-81-112 tomcat]# find / -name context.xml
/opt/tomcat/conf/context.xml
/opt/tomcat/webapps/examples/META-INF/context.xml
/opt/tomcat/webapps/host-manager/META-INF/context.xml
/opt/tomcat/webapps/manager/META-INF/context.xml
[root@ip-172-31-81-112 tomcat]# vi /opt/tomcat/webapps/host-manager/META-INF/context.xml
```

Comment out the value class name with <!-- and --> as shown below the
save and quit using wq

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

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

Repeat the same in another manager app

```
/opt/tomcat/conf/context.xml  
/opt/tomcat/webapps/examples/META-INF/context.xml  
/opt/tomcat/webapps/host-manager/META-INF/context.xml  
/opt/tomcat/webapps/manager/META-INF/context.xml  
[root@ip-172-31-81-112 tomcat]# vi /opt/tomcat/webapps/host-manager/META-INF/context.xml  
[root@ip-172-31-81-112 tomcat]# vi /opt/tomcat/webapps/manager/META-INF/context.xml
```

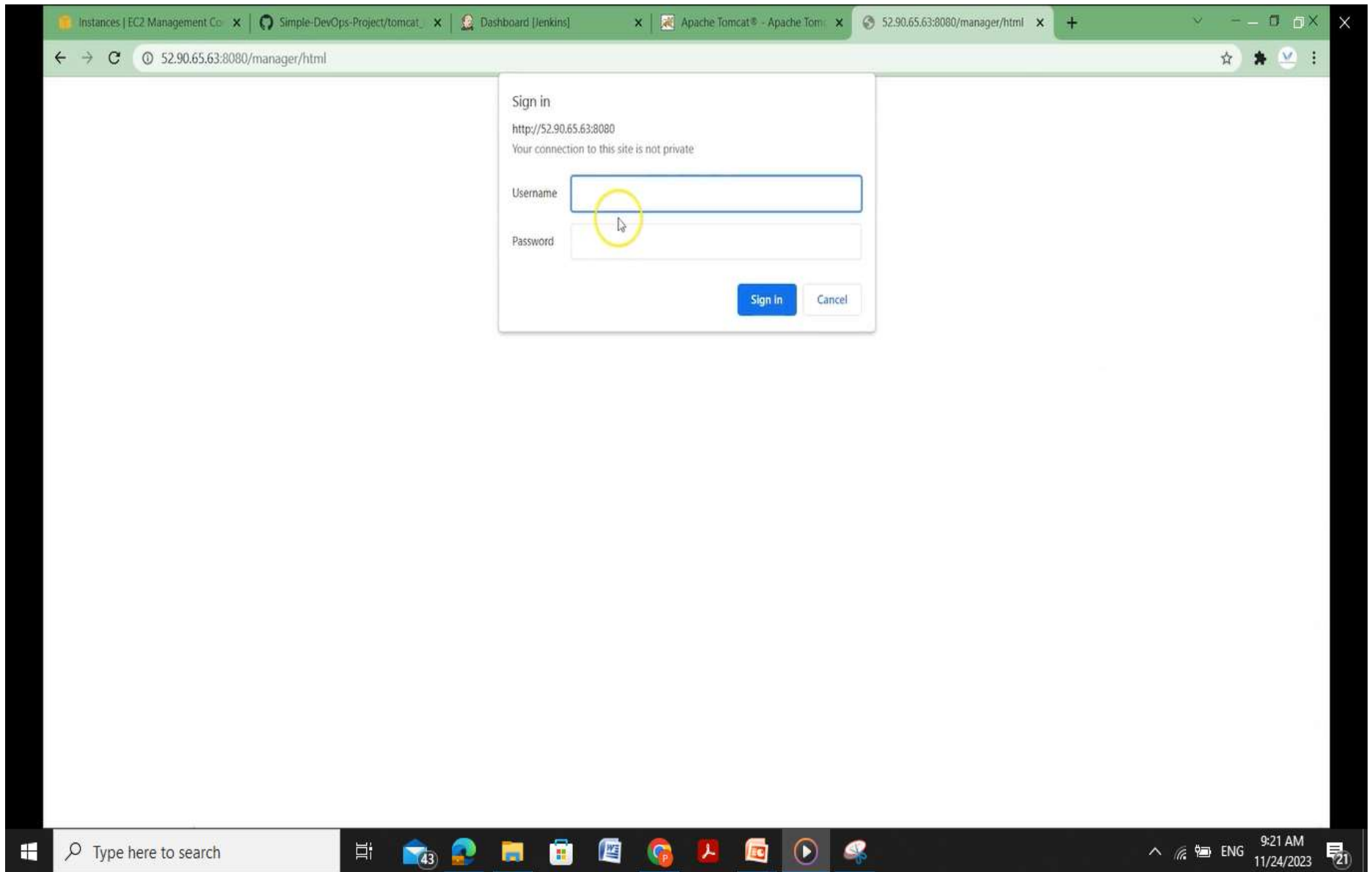

Comment out the value class name with <!-- and --> as shown below the
save and quit using wq

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

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

after the changes restart the tom cat server

- move to bin 'cd bin' and then ./shutdown.sh
- Then again start tomcat by the command ./startup.sh
- Then again try to run the tomcat server by giving the url with public IP and local host address 8080
- It should then ask for the credentials



So for credentials we have to go for
‘conf’ directory in tomcat

- `cd conf`
- Now we need to edit the tomcat users.xml file using the command `vi tomcat-users.xml`

52.90.65.63 (ec2-user)

Terminal Sessions View X server Tools Games Settings Macros Help

Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

Quick connect...

2 52.91.26.146 (ec2-user) 4 52.90.65.63 (ec2-user)

```
[root@ip-172-31-81-112 bin]# cd ..
[root@ip-172-31-81-112 tomcat]# ll
total 128
drwxr-x--- 2 root root 4096 Nov  7 08:18 bin
-rw-r----- 1 root root 18970 Sep 28 13:51 BUILDING.txt
drwx----- 3 root root 254 Nov  7 08:19 conf
-rw-r----- 1 root root 6210 Sep 28 13:51 CONTRIBUTING.md
drwxr-x--- 2 root root 4096 Nov  7 08:18 lib
-rw-r----- 1 root root 57092 Sep 28 13:51 LICENSE
drwxr-x--- 2 root root 197 Nov  7 08:19 logs
-rw-r----- 1 root root 2333 Sep 28 13:51 NOTICE
-rw-r----- 1 root root 3372 Sep 28 13:51 README.md
-rw-r----- 1 root root 6898 Sep 28 13:51 RELEASE-NOTES
-rw-r----- 1 root root 16507 Sep 28 13:51 RUNNING.txt
drwxr-x--- 2 root root 30 Nov  7 08:18 temp
drwxr-x--- 7 root root 81 Sep 28 13:51 webapps
drwxr-x--- 3 root root 22 Nov  7 08:19 work
[root@ip-172-31-81-112 tomcat]# cd conf/
[root@ip-172-31-81-112 conf]# ll
total 232
drwxr-x--- 3 root root 23 Nov  7 08:19 Catalina
-rw----- 1 root root 13052 Sep 28 13:51 catalina.policy
-rw----- 1 root root 7276 Sep 28 13:51 catalina.properties
-rw----- 1 root root 1400 Sep 28 13:51 context.xml
-rw----- 1 root root 1149 Sep 28 13:51 jaspic-providers.xml
-rw----- 1 root root 2313 Sep 28 13:51 jaspic-providers.xsd
-rw----- 1 root root 4144 Sep 28 13:51 logging.properties
-rw----- 1 root root 7589 Sep 28 13:51 server.xml
-rw----- 1 root root 2756 Sep 28 13:51 tomcat-users.xml
-rw----- 1 root root 2558 Sep 28 13:51 tomcat-users.xsd
-rw----- 1 root root 172359 Sep 28 13:51 web.xml
[root@ip-172-31-81-112 conf]# vi tomcat-users.xml
```

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Windows taskbar: Type here to search, 43, 9:30 AM 11/24/2023

After the file opened then goto end of the file by
pressing 'shiftg'

```
#Add below lines between <tomcat-users> tag
```

```
<role rolename="manager-gui"/>
```

```
<role rolename="manager-script"/>
```

```
<role rolename="manager-jmx"/>
```

```
<role rolename="manager-status"/>
```

```
<user username="admin" password="admin" roles="manager-gui,manager-  
script,manager-jmx,manager-status"/>
```

```
<user username="deployer" password="deployer" roles="manager-  
script"/>
```

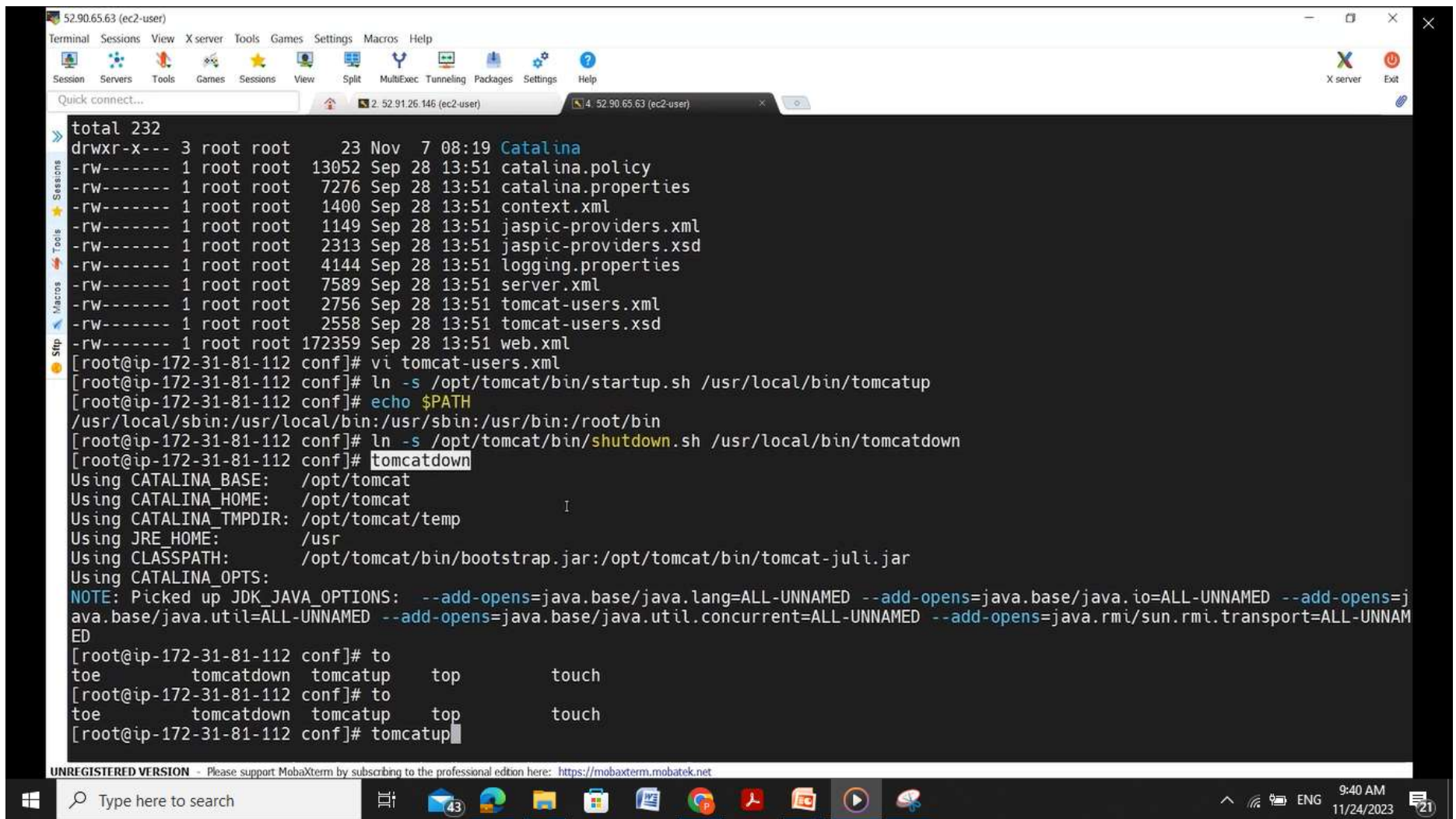
```
<user username="tomcat" password="s3cret" roles="manager-gui"/>
```

After adding the lines to the file save and quit then again restart the tom cat server

Create link files for Tomcat Server up and Down

```
ln -s /opt/apache-tomcat-9.0.55/bin/startup.sh  
/usr/local/bin/tomcatup  
  
ln -s /opt/apache-tomcat-9.0.55/bin/shutdown.sh  
/usr/local/bin/tomcatdown
```

Then use tomcatdown to shutdown and next tomcatup to restart

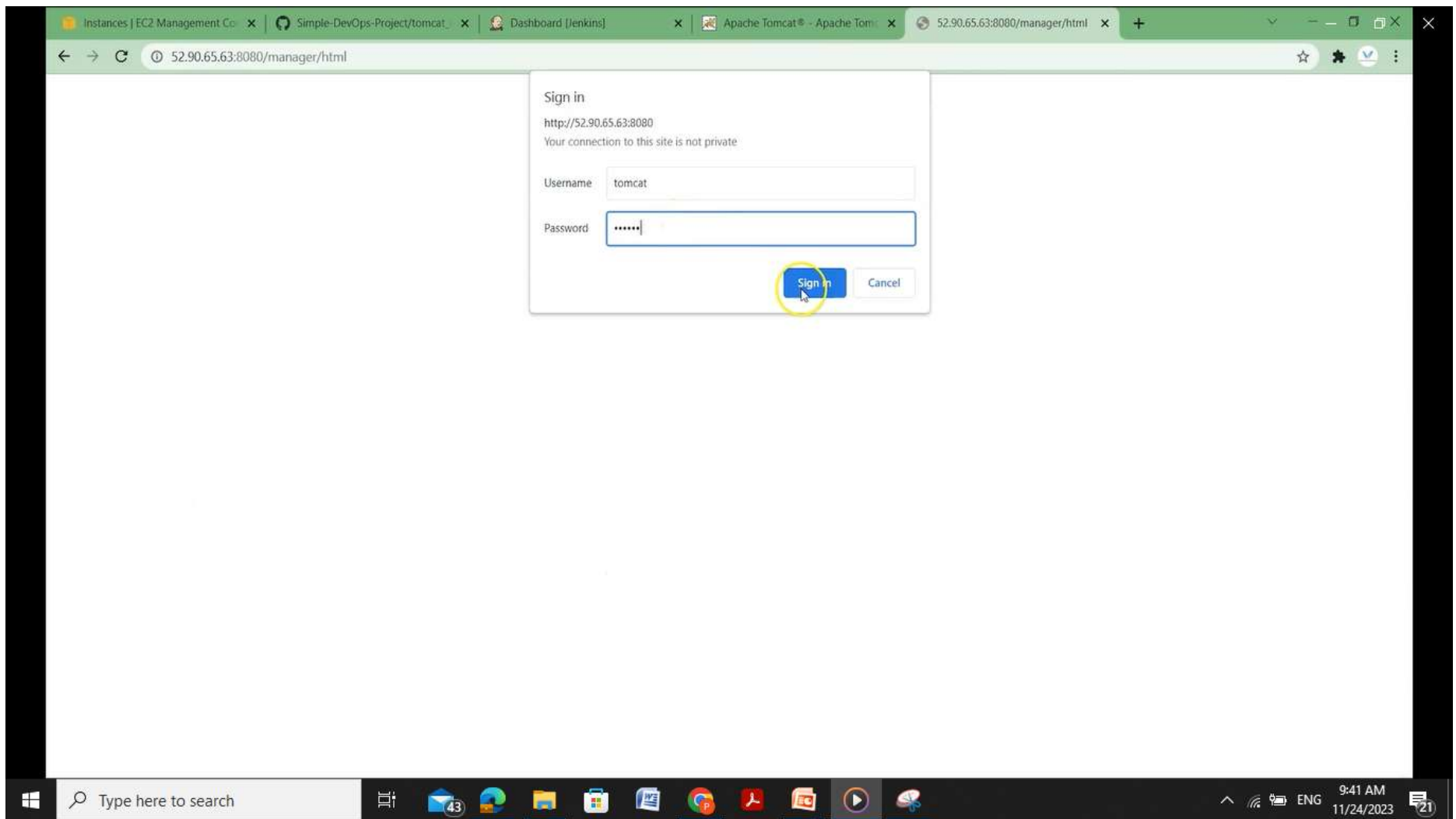


The screenshot shows a MobaXterm terminal window with the following content:

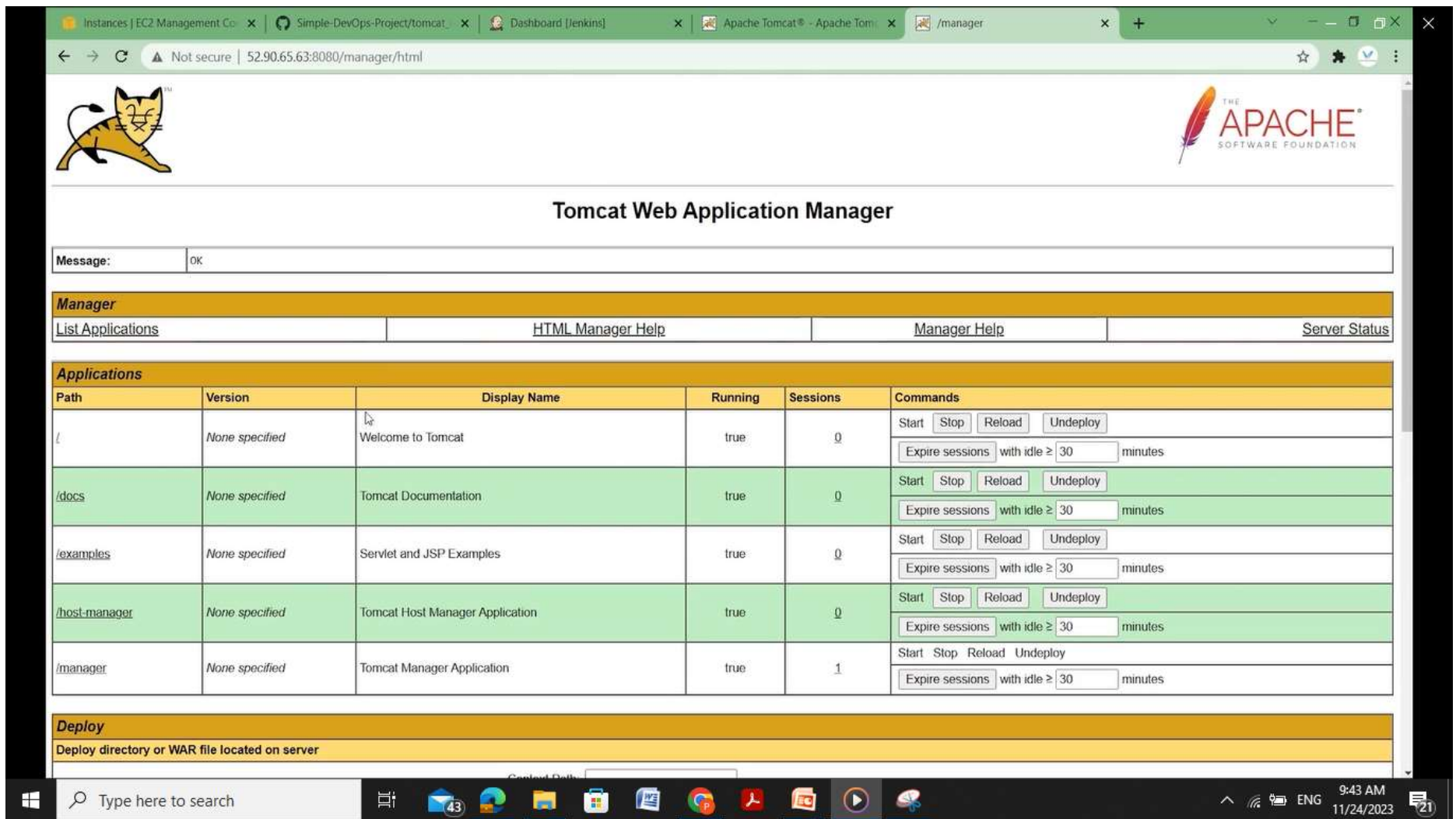
```
total 232
drwxr-x--- 3 root root    23 Nov  7 08:19 Catalina
-rw----- 1 root root 13052 Sep 28 13:51 catalina.policy
-rw----- 1 root root  7276 Sep 28 13:51 catalina.properties
-rw----- 1 root root  1400 Sep 28 13:51 context.xml
-rw----- 1 root root  1149 Sep 28 13:51 jaspic-providers.xml
-rw----- 1 root root  2313 Sep 28 13:51 jaspic-providers.xsd
-rw----- 1 root root  4144 Sep 28 13:51 logging.properties
-rw----- 1 root root  7589 Sep 28 13:51 server.xml
-rw----- 1 root root  2756 Sep 28 13:51 tomcat-users.xml
-rw----- 1 root root  2558 Sep 28 13:51 tomcat-users.xsd
-rw----- 1 root root 172359 Sep 28 13:51 web.xml
[root@ip-172-31-81-112 conf]# vi tomcat-users.xml
[root@ip-172-31-81-112 conf]# ln -s /opt/tomcat/bin/startup.sh /usr/local/bin/tomcatup
[root@ip-172-31-81-112 conf]# echo $PATH
/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/root/bin
[root@ip-172-31-81-112 conf]# ln -s /opt/tomcat/bin/shutdown.sh /usr/local/bin/tomcatdown
[root@ip-172-31-81-112 conf]# tomcatdown
Using CATALINA_BASE:   /opt/tomcat
Using CATALINA_HOME:   /opt/tomcat
Using CATALINA_TMPDIR: /opt/tomcat/temp
Using JRE_HOME:        /usr
Using CLASSPATH:       /opt/tomcat/bin/bootstrap.jar:/opt/tomcat/bin/tomcat-juli.jar
Using CATALINA_OPTS:
NOTE: Picked up JDK_JAVA_OPTIONS:  --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.io=ALL-UNNAMED --add-opens=j
ava.base/java.util=ALL-UNNAMED --add-opens=java.base/java.util.concurrent=ALL-UNNAMED --add-opens=java.rmi/sun.rmi.transport=ALL-UNNAMED
[root@ip-172-31-81-112 conf]# to
toe      tomcatdown  tomcatup    top        touch
[root@ip-172-31-81-112 conf]# to
toe      tomcatdown  tomcatup    top        touch
[root@ip-172-31-81-112 conf]# tomcatup
```

At the bottom of the terminal window, there is a message: "UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>".

Now again the run tomcat using the ip and local port 8080 in url and see it asks for user id and password give the credentials as tomcat and s3cret



We can see the tomcat runs successfully



The screenshot displays the Apache Tomcat Web Application Manager interface in a web browser. The browser's address bar shows the URL `52.90.65.63:8080/manager/html`. The page features the Tomcat logo on the left and the Apache Software Foundation logo on the right. Below the logos, the title "Tomcat Web Application Manager" is centered. A message box indicates "Message: OK".

The main content area is divided into sections. The "Manager" section includes links for "List Applications", "HTML Manager Help", "Manager Help", and "Server Status". The "Applications" section contains a table listing the following 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

Below the applications table is a "Deploy" section with a heading "Deploy directory or WAR file located on server". The Windows taskbar at the bottom shows the system time as 9:43 AM on 11/24/2023.