AWS PROJECT 6

INSTALLING AND CONFIGURING APACHE TOMCAT SERVER ON LINUX

INSTALLD JAVA USING – yum install java-1.8*

```
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0ccb79d2a6327ebfa

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-10-89 ~]$ sudo su
[root@ip-172-31-10-89 ec2-user]# yum install java-1.8*
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package java-1.8.0-openjdk.x86_64 1:1.8.0.282.b08-1.amzn2.0.1 will be installed
--> Processing Dependency: xorg-x11-fonts-Type1 for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: libasound.so.2(ALSA_0.9.0rc4)(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: libasound.so.2(ALSA_0.9)(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: libXcomposite(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: gtk2(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: fontconfig(x86-64) for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: libgif.so.4()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: libasound.so.2()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: libXtst.so.6()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: libXrender.so.1()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: libXi.so.6()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: libXext.so.6()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: libX11.so.6()(64bit) for package: 1:java-1.8.0-openjdk-1.8.0.282.b08-1.amzn2.0.1.x86_64
---> Package java-1.8.0-openjdk-accessibility.x86_64 1:1.8.0.282.b08-1.amzn2.0.1 will be installed
--> Processing Dependency: java-atk-wrapper(x86-64) for package: 1:java-1.8.0-openjdk-accessibility-1.8.0.282.b08-1.amzn2.0.1.x86_64
---> Package java-1.8.0-openjdk-accessibility-debug.x86_64 1:1.8.0.282.b08-1.amzn2.0.1 will be installed
---> Package java-1.8.0-openjdk-debug.x86_64 1:1.8.0.282.b08-1.amzn2.0.1 will be installed
---> Package java-1.8.0-openjdk-demo.x86_64 1:1.8.0.282.b08-1.amzn2.0.1 will be installed
---> Package java-1.8.0-openjdk-demo-debug.x86_64 1:1.8.0.282.b08-1.amzn2.0.1 will be installed
---> Package java-1.8.0-openjdk-devel.x86_64 1:1.8.0.282.b08-1.amzn2.0.1 will be installed
---> Package java-1.8.0-openjdk-devel-debug.x86_64 1:1.8.0.282.b08-1.amzn2.0.1 will be installed
---> Package java-1.8.0-openjdk-headless.x86_64 1:1.8.0.282.b08-1.amzn2.0.1 will be installed
--> Processing Dependency: tzdata-java >= 2020b for package: 1:java-1.8.0-openjdk-headless-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: copy-jdk-configs >= 3.3 for package: 1:java-1.8.0-openjdk-headless-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: pcsc-lite-libs(x86-64) for package: 1:java-1.8.0-openjdk-headless-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: lksctp-tools(x86-64) for package: 1:java-1.8.0-openjdk-headless-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: jpackage-utils for package: 1:java-1.8.0-openjdk-headless-1.8.0.282.b08-1.amzn2.0.1.x86_64
--> Processing Dependency: cups-libs(x86-64) for package: 1:java-1.8.0-openjdk-headless-1.8.0.282.b08-1.amzn2.0.1.x86_64
---> Package java-1.8.0-openjdk-headless-debug.x86_64 1:1.8.0.282.b08-1.amzn2.0.1 will be installed

i-0ccb79d2a6327ebfa (Tomcat_Server)
Public IPs: 3.143.4.205    Private IPs: 172.31.10.89
```

```
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0ccb79d2a6327ebfa

  Verifying  : 1:java-1.8.0-openjdk-demo-debug-1.8.0.282.b08-1.amzn2.0.1.x86_64                                   87/88
  Verifying  : mesa-libgbm-18.3.4-5.amzn2.0.1.x86_64                                                              88/88

Installed:
  java-1.8.0-openjdk.x86_64 1:1.8.0.282.b08-1.amzn2.0.1                  java-1.8.0-openjdk-accessibility.x86_64 1:1.8.0.282.b08-1.amzn2.0.1
  java-1.8.0-openjdk-accessibility-debug.x86_64 1:1.8.0.282.b08-1.amzn2.0.1  java-1.8.0-openjdk-debug.x86_64 1:1.8.0.282.b08-1.amzn2.0.1
  java-1.8.0-openjdk-demo.x86_64 1:1.8.0.282.b08-1.amzn2.0.1             java-1.8.0-openjdk-demo-debug.x86_64 1:1.8.0.282.b08-1.amzn2.0.1
  java-1.8.0-openjdk-devel.x86_64 1:1.8.0.282.b08-1.amzn2.0.1            java-1.8.0-openjdk-devel-debug.x86_64 1:1.8.0.282.b08-1.amzn2.0.1
  java-1.8.0-openjdk-headless.x86_64 1:1.8.0.282.b08-1.amzn2.0.1         java-1.8.0-openjdk-headless-debug.x86_64 1:1.8.0.282.b08-1.amzn2.0.1
  java-1.8.0-openjdk-javadoc.noarch 1:1.8.0.282.b08-1.amzn2.0.1          java-1.8.0-openjdk-javadoc-debug.noarch 1:1.8.0.282.b08-1.amzn2.0.1
  java-1.8.0-openjdk-javadoc-zip.noarch 1:1.8.0.282.b08-1.amzn2.0.1      java-1.8.0-openjdk-javadoc-zip-debug.noarch 1:1.8.0.282.b08-1.amzn2.0.1
  java-1.8.0-openjdk-src.x86_64 1:1.8.0.282.b08-1.amzn2.0.1              java-1.8.0-openjdk-src-debug.x86_64 1:1.8.0.282.b08-1.amzn2.0.1

Dependency Installed:
  GConf2.x86_64 0:3.2.6-8.amzn2.0.2                    alsa-lib.x86_64 0:1.1.4.1-2.amzn2                    atk.x86_64 0:2.22.0-3.amzn2.0.2
  avahi-libs.x86_64 0:0.6.31-20.amzn2                  cairo.x86_64 0:1.15.12-4.amzn2                       copy-jdk-configs.noarch 0:3.3-10.amzn2
  cups-libs.x86_64 1:1.6.3-51.amzn2                    dbus-glib.x86_64 0:0.100-7.2.amzn2                   dejavu-fonts-common.noarch 0:2.33-6.amzn2
  dejavu-sans-fonts.noarch 0:2.33-6.amzn2              fontconfig.x86_64 0:2.13.0-4.3.amzn2                 fontpackages-filesystem.noarch 0:1.44-8.amzn2
  fribidi.x86_64 0:1.0.2-1.amzn2.1                     gdk-pixbuf2.x86_64 0:2.36.12-3.amzn2                 giflib.x86_64 0:4.1.6-9.amzn2.0.2
  graphite2.x86_64 0:1.3.10-1.amzn2.0.2                gtk-update-icon-cache.x86_64 0:3.22.30-3.amzn2       gtk2.x86_64 0:2.24.31-1.amzn2.0.2
  harfbuzz.x86_64 0:1.7.5-2.amzn2                      hicolor-icon-theme.noarch 0:0.12-7.amzn2             jasper-libs.x86_64 0:1.900.1-33.amzn2
  java-atk-wrapper.x86_64 0:0.30.4-5.amzn2.0.2         javapackages-tools.noarch 0:3.4.1-11.amzn2           libICE.x86_64 0:1.0.9-9.amzn2.0.2
  libSM.x86_64 0:1.2.2-2.amzn2.0.2                     libX11.x86_64 0:1.6.7-3.amzn2                        libX11-common.noarch 0:1.6.7-3.amzn2
  libXau.x86_64 0:1.0.8-2.1.amzn2.0.2                  libXcomposite.x86_64 0:0.4.4-4.1.amzn2.0.2           libXcursor.x86_64 0:1.1.15-1.amzn2
  libXdamage.x86_64 0:1.1.4-4.1.amzn2.0.2              libXext.x86_64 0:1.3.3-3.amzn2.0.2                   libXfixes.x86_64 0:5.0.3-1.amzn2.0.2
  libXft.x86_64 0:2.3.2-2.amzn2.0.2                    libXi.x86_64 0:1.7.9-1.amzn2.0.2                     libXinerama.x86_64 0:1.1.3-2.1.amzn2.0.2
  libXrandr.x86_64 0:1.5.1-2.amzn2.0.3                 libXrender.x86_64 0:0.9.10-1.amzn2.0.2               libXtst.x86_64 0:1.2.3-1.amzn2.0.2
  libXv.x86_64 0:1.0.11-1.amzn2.0.2                    libXxf86dga.x86_64 0:1.1.4-2.1.amzn2.0.2             libXxf86misc.x86_64 0:1.0.3-7.1.amzn2.0.2
  libXxf86vm.x86_64 0:1.1.4-1.amzn2.0.2                libdmx.x86_64 0:1.1.3-3.amzn2.0.2                    libfontenc.x86_64 0:1.1.3-3.amzn2.0.2
  libglvnd.x86_64 1:1.0.1-0.1.git5baa1e5.amzn2.0.1     libglvnd-egl.x86_64 1:1.0.1-0.1.git5baa1e5.amzn2.0.1 libglvnd-glx.x86_64 1:1.0.1-0.1.git5baa1e5.amzn2.0.1
  libthai.x86_64 0:0.1.14-9.amzn2.0.2                  libwayland-client.x86_64 0:1.17.0-1.amzn2            libwayland-server.x86_64 0:1.17.0-1.amzn2
  libxcb.x86_64 0:1.12-1.amzn2.0.2                     libxshmfence.x86_64 0:1.2-1.amzn2.0.2                libxslt.x86_64 0:1.1.28-6.amzn2
  lksctp-tools.x86_64 0:1.0.17-2.amzn2.0.2             mesa-libEGL.x86_64 0:18.3.4-5.amzn2.0.1              mesa-libGL.x86_64 0:18.3.4-5.amzn2.0.1
  mesa-libgbm.x86_64 0:18.3.4-5.amzn2.0.1              mesa-libglapi.x86_64 0:18.3.4-5.amzn2.0.1            mozjs17.x86_64 0:17.0.0-20.amzn2.0.1
  pango.x86_64 0:1.42.4-4.amzn2                        pcsc-lite-libs.x86_64 0:1.8.8-7.amzn2                pixman.x86_64 0:0.34.0-1.amzn2.0.2
  polkit.x86_64 0:0.112-26.amzn2                       polkit-pkla-compat.x86_64 0:0.1-4.amzn2.0.2          python-javapackages.noarch 0:3.4.1-11.amzn2
  python-lxml.x86_64 0:3.2.1-4.amzn2.0.2               ttmkfdir.x86_64 0:3.0.9-42.amzn2.0.2                 tzdata-java.noarch 0:2020d-2.amzn2
  xorg-x11-font-utils.x86_64 1:7.5-21.amzn2            xorg-x11-fonts-Type1.noarch 0:7.5-9.amzn2            xorg-x11-utils.x86_64 0:7.5-23.amzn2

Complete!
[root@ip-172-31-10-89 ec2-user]#

i-0ccb79d2a6327ebfa (Tomcat_Server)
Public IPs: 3.143.4.205    Private IPs: 172.31.10.89
```

DOWNLOAD AND EXTRACT OF TOMCAT SERVER

```
Last login: Sat Mar 20 08:51:18 2021 from ec2-3-16-146-0.us-east-2.compute.amazonaws.com

       __|  __|_  )
       _|  (     /   Amazon Linux 2 AMI
      ___|\___|___|

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-10-89 ~]$ sudo su
[root@ip-172-31-10-89 ec2-user]# java -version
openjdk version "1.8.0_282"
OpenJDK Runtime Environment (build 1.8.0_282-b08)
OpenJDK 64-Bit Server VM (build 25.282-b08, mixed mode)
[root@ip-172-31-10-89 ec2-user]# cd /opt
[root@ip-172-31-10-89 opt]# wget https://downloads.apache.org/tomcat/tomcat-9/v9.0.44/bin/apache-tomcat-9.0.44.tar.gz
--2021-03-20 09:02:09--  https://downloads.apache.org/tomcat/tomcat-9/v9.0.44/bin/apache-tomcat-9.0.44.tar.gz
Resolving downloads.apache.org (downloads.apache.org)... 88.99.95.219, 2a01:4f8:10a:201a::2
Connecting to downloads.apache.org (downloads.apache.org)|88.99.95.219|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 11487016 (11M) [application/x-gzip]
Saving to: 'apache-tomcat-9.0.44.tar.gz'

100%[===================================================================================================================>] 11,487,016  965KB/s   in 15s

2021-03-20 09:02:25 (728 KB/s) - 'apache-tomcat-9.0.44.tar.gz' saved [11487016/11487016]

[root@ip-172-31-10-89 opt]# ls
apache-tomcat-9.0.44.tar.gz  aws  rh
[root@ip-172-31-10-89 opt]# tar -zvxf apache-tomcat-9.0.44.tar.gz
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

```
apache-tomcat-9.0.44/webapps/examples/websocket/snake.xhtml
apache-tomcat-9.0.44/webapps/host-manager/META-INF/context.xml
apache-tomcat-9.0.44/webapps/host-manager/WEB-INF/jsp/401.jsp
apache-tomcat-9.0.44/webapps/host-manager/WEB-INF/jsp/403.jsp
apache-tomcat-9.0.44/webapps/host-manager/WEB-INF/jsp/404.jsp
apache-tomcat-9.0.44/webapps/host-manager/WEB-INF/manager.xml
apache-tomcat-9.0.44/webapps/host-manager/WEB-INF/web.xml
apache-tomcat-9.0.44/webapps/host-manager/css/manager.css
apache-tomcat-9.0.44/webapps/host-manager/images/asf-logo.svg
apache-tomcat-9.0.44/webapps/host-manager/images/tomcat.svg
apache-tomcat-9.0.44/webapps/host-manager/index.jsp
apache-tomcat-9.0.44/webapps/manager/META-INF/context.xml
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/401.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/403.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/404.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/connectorCerts.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/connectorTrustedCerts.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/web.xml
apache-tomcat-9.0.44/webapps/manager/css/manager.css
apache-tomcat-9.0.44/webapps/manager/images/asf-logo.svg
apache-tomcat-9.0.44/webapps/manager/images/tomcat.svg
apache-tomcat-9.0.44/webapps/manager/index.jsp
apache-tomcat-9.0.44/webapps/manager/status.xsd
apache-tomcat-9.0.44/webapps/manager/xform.xsl
apache-tomcat-9.0.44/bin/catalina.sh
apache-tomcat-9.0.44/bin/ciphers.sh
apache-tomcat-9.0.44/bin/configtest.sh
apache-tomcat-9.0.44/bin/daemon.sh
apache-tomcat-9.0.44/bin/digest.sh
apache-tomcat-9.0.44/bin/makebase.sh
apache-tomcat-9.0.44/bin/setclasspath.sh
apache-tomcat-9.0.44/bin/shutdown.sh
apache-tomcat-9.0.44/bin/startup.sh
apache-tomcat-9.0.44/bin/tool-wrapper.sh
apache-tomcat-9.0.44/bin/version.sh
[root@ip-172-31-10-89 opt]# ls
apache-tomcat-9.0.44  apache-tomcat-9.0.44.tar.gz  aws  rh
[root@ip-172-31-10-89 opt]#
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

```
apache-tomcat-9.0.44/webapps/examples/websocket/snake.xhtml
apache-tomcat-9.0.44/webapps/host-manager/META-INF/context.xml
apache-tomcat-9.0.44/webapps/host-manager/WEB-INF/jsp/401.jsp
apache-tomcat-9.0.44/webapps/host-manager/WEB-INF/jsp/403.jsp
apache-tomcat-9.0.44/webapps/host-manager/WEB-INF/jsp/404.jsp
apache-tomcat-9.0.44/webapps/host-manager/WEB-INF/manager.xml
apache-tomcat-9.0.44/webapps/host-manager/WEB-INF/web.xml
apache-tomcat-9.0.44/webapps/host-manager/css/manager.css
apache-tomcat-9.0.44/webapps/host-manager/images/asf-logo.svg
apache-tomcat-9.0.44/webapps/host-manager/images/tomcat.svg
apache-tomcat-9.0.44/webapps/host-manager/index.jsp
apache-tomcat-9.0.44/webapps/manager/META-INF/context.xml
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/401.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/403.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/404.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/connectorCerts.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/connectorTrustedCerts.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/web.xml
apache-tomcat-9.0.44/webapps/manager/css/manager.css
apache-tomcat-9.0.44/webapps/manager/images/asf-logo.svg
apache-tomcat-9.0.44/webapps/manager/images/tomcat.svg
apache-tomcat-9.0.44/webapps/manager/index.jsp
apache-tomcat-9.0.44/webapps/manager/status.xsd
apache-tomcat-9.0.44/webapps/manager/xform.xsl
apache-tomcat-9.0.44/bin/catalina.sh
apache-tomcat-9.0.44/bin/ciphers.sh
apache-tomcat-9.0.44/bin/configtest.sh
apache-tomcat-9.0.44/bin/daemon.sh
apache-tomcat-9.0.44/bin/digest.sh
apache-tomcat-9.0.44/bin/makebase.sh
apache-tomcat-9.0.44/bin/setclasspath.sh
apache-tomcat-9.0.44/bin/shutdown.sh
apache-tomcat-9.0.44/bin/startup.sh
apache-tomcat-9.0.44/bin/tool-wrapper.sh
apache-tomcat-9.0.44/bin/version.sh
[root@ip-172-31-10-89 opt]# ls
apache-tomcat-9.0.44  apache-tomcat-9.0.44.tar.gz  aws  rh
[root@ip-172-31-10-89 opt]# cd apache-tomcat-9.0.44
```

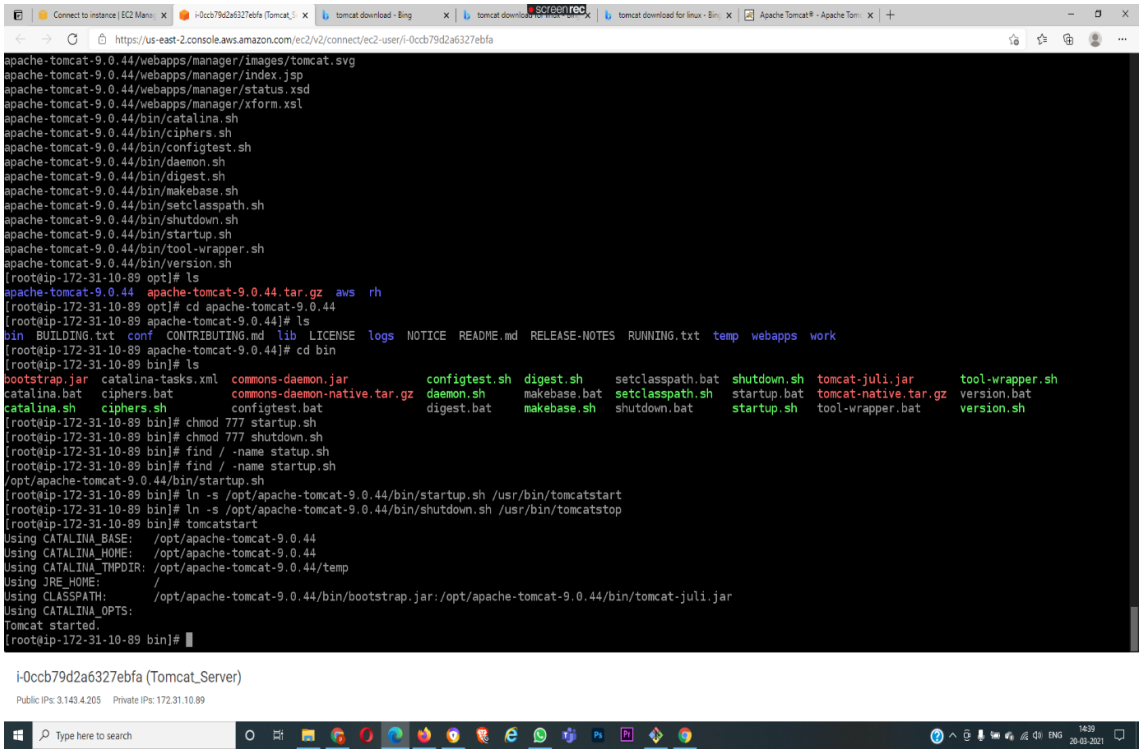
i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

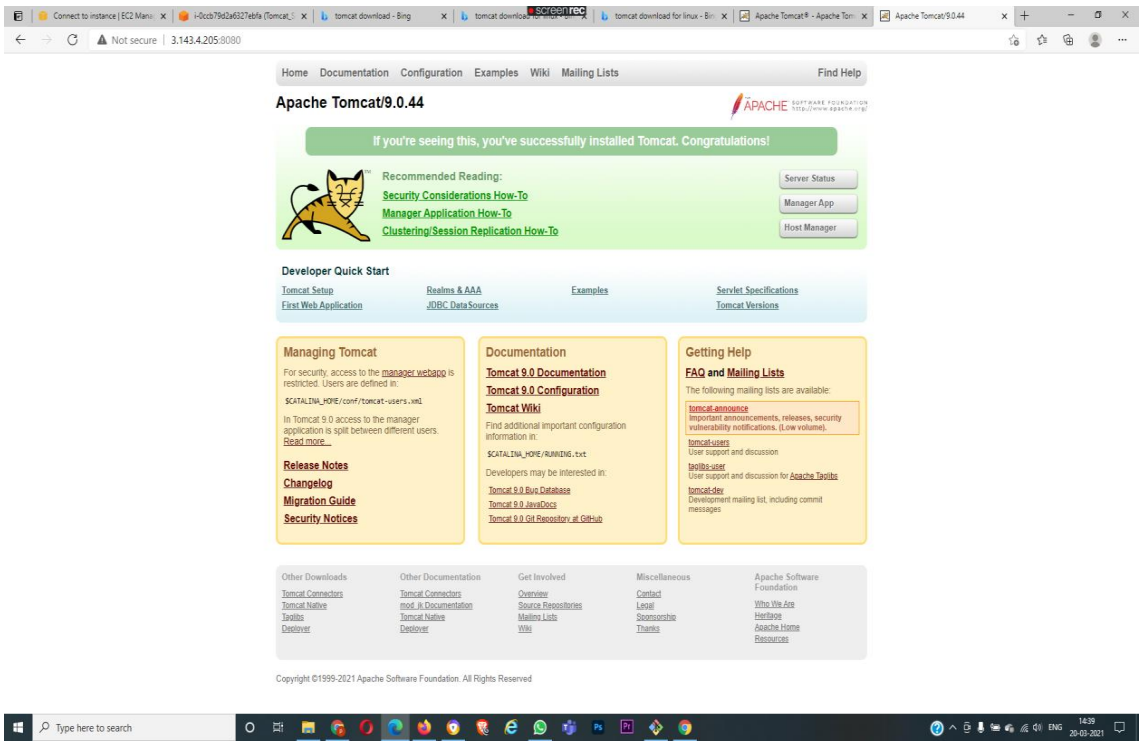
```
apache-tomcat-9.0.44/webapps/host-manager/images/asf-logo.svg
apache-tomcat-9.0.44/webapps/host-manager/images/tomcat.svg
apache-tomcat-9.0.44/webapps/host-manager/index.jsp
apache-tomcat-9.0.44/webapps/manager/META-INF/context.xml
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/401.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/403.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/404.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/connectorCerts.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/connectorCiphers.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/connectorTrustedCerts.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/sessionDetail.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/jsp/sessionsList.jsp
apache-tomcat-9.0.44/webapps/manager/WEB-INF/web.xml
apache-tomcat-9.0.44/webapps/manager/css/manager.css
apache-tomcat-9.0.44/webapps/manager/images/asf-logo.svg
apache-tomcat-9.0.44/webapps/manager/images/tomcat.svg
apache-tomcat-9.0.44/webapps/manager/index.jsp
apache-tomcat-9.0.44/webapps/manager/status.xsd
apache-tomcat-9.0.44/webapps/manager/xform.xsl
apache-tomcat-9.0.44/bin/catalina.sh
apache-tomcat-9.0.44/bin/ciphers.sh
apache-tomcat-9.0.44/bin/configtest.sh
apache-tomcat-9.0.44/bin/daemon.sh
apache-tomcat-9.0.44/bin/digest.sh
apache-tomcat-9.0.44/bin/makebase.sh
apache-tomcat-9.0.44/bin/setclasspath.sh
apache-tomcat-9.0.44/bin/shutdown.sh
apache-tomcat-9.0.44/bin/startup.sh
apache-tomcat-9.0.44/bin/tool-wrapper.sh
apache-tomcat-9.0.44/bin/version.sh
[root@ip-172-31-10-89 opt]# ls
apache-tomcat-9.0.44  apache-tomcat-9.0.44.tar.gz  aws  rh
[root@ip-172-31-10-89 opt]# cd apache-tomcat-9.0.44
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# ls
bin  BUILDING.txt  conf  CONTRIBUTING.md  lib  LICENSE  logs  NOTICE  README.md  RELEASE-NOTES  RUNNING.txt  temp  webapps  work
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# cd bin
[root@ip-172-31-10-89 bin]# ls
bootstrap.jar  catalina-tasks.xml  commons-daemon.jar           configtest.sh  digest.sh     setclasspath.bat  shutdown.sh  tomcat-juli.jar       tool-wrapper.sh
catalina.bat   ciphers.bat         commons-daemon-native.tar.gz  daemon.sh      makebase.bat  setclasspath.sh   startup.bat  tomcat-native.tar.gz  version.bat
catalina.sh    ciphers.sh          configtest.bat                digest.bat     makebase.sh   shutdown.bat      startup.sh   tool-wrapper.bat      version.sh
[root@ip-172-31-10-89 bin]#
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89



STARTED THE TOMCAT SERVER AFTER CREATION OF



CHANGING OF PORT 8080 TO 8090

```
apache-tomcat-9.0.44/webapps/manager/images/tomcat.svg
apache-tomcat-9.0.44/webapps/manager/index.jsp
apache-tomcat-9.0.44/webapps/manager/status.xsd
apache-tomcat-9.0.44/webapps/manager/xform.xsl
apache-tomcat-9.0.44/bin/catalina.sh
apache-tomcat-9.0.44/bin/ciphers.sh
apache-tomcat-9.0.44/bin/configtest.sh
apache-tomcat-9.0.44/bin/daemon.sh
apache-tomcat-9.0.44/bin/digest.sh
apache-tomcat-9.0.44/bin/makebase.sh
apache-tomcat-9.0.44/bin/setclasspath.sh
apache-tomcat-9.0.44/bin/shutdown.sh
apache-tomcat-9.0.44/bin/startup.sh
apache-tomcat-9.0.44/bin/tool-wrapper.sh
apache-tomcat-9.0.44/bin/version.sh
[root@ip-172-31-10-89 opt]# ls
apache-tomcat-9.0.44  apache-tomcat-9.0.44.tar.gz  aws  rh
[root@ip-172-31-10-89 opt]# cd apache-tomcat-9.0.44
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# ls
bin  BUILDING.txt  conf  CONTRIBUTING.md  lib  LICENSE  logs  NOTICE  README.md  RELEASE-NOTES  RUNNING.txt  temp  webapps  work
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# cd bin
[root@ip-172-31-10-89 bin]# ls
bootstrap.jar  catalina-tasks.xml  commons-daemon.jar            configtest.sh  digest.sh     setclasspath.bat  shutdown.sh  tomcat-juli.jar       tool-wrapper.sh
catalina.bat   ciphers.bat         commons-daemon-native.tar.gz  daemon.sh      makebase.bat  setclasspath.sh   startup.bat  tomcat-native.tar.gz  version.bat
catalina.sh    ciphers.sh          configtest.bat                digest.bat     makebase.sh   shutdown.bat      startup.sh   tool-wrapper.bat      version.sh
[root@ip-172-31-10-89 bin]# chmod 777 startup.sh
[root@ip-172-31-10-89 bin]# chmod 777 shutdown.sh
[root@ip-172-31-10-89 bin]# find / -name statup.sh
[root@ip-172-31-10-89 bin]# find / -name startup.sh
/opt/apache-tomcat-9.0.44/bin/startup.sh
[root@ip-172-31-10-89 bin]# ln -s /opt/apache-tomcat-9.0.44/bin/startup.sh /usr/bin/tomcatstart
[root@ip-172-31-10-89 bin]# ln -s /opt/apache-tomcat-9.0.44/bin/shutdown.sh /usr/bin/tomcatstop
[root@ip-172-31-10-89 bin]# tomcatstart
Using CATALINA_BASE:   /opt/apache-tomcat-9.0.44
Using CATALINA_HOME:   /opt/apache-tomcat-9.0.44
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.44/temp
Using JRE_HOME:        /
Using CLASSPATH:       /opt/apache-tomcat-9.0.44/bin/bootstrap.jar:/opt/apache-tomcat-9.0.44/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
[root@ip-172-31-10-89 bin]# cd ..
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

```
apache-tomcat-9.0.44/webapps/manager/xform.xsl
apache-tomcat-9.0.44/bin/catalina.sh
apache-tomcat-9.0.44/bin/ciphers.sh
apache-tomcat-9.0.44/bin/configtest.sh
apache-tomcat-9.0.44/bin/daemon.sh
apache-tomcat-9.0.44/bin/digest.sh
apache-tomcat-9.0.44/bin/makebase.sh
apache-tomcat-9.0.44/bin/setclasspath.sh
apache-tomcat-9.0.44/bin/shutdown.sh
apache-tomcat-9.0.44/bin/startup.sh
apache-tomcat-9.0.44/bin/tool-wrapper.sh
apache-tomcat-9.0.44/bin/version.sh
[root@ip-172-31-10-89 opt]# ls
apache-tomcat-9.0.44  apache-tomcat-9.0.44.tar.gz  aws  rh
[root@ip-172-31-10-89 opt]# cd apache-tomcat-9.0.44
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# ls
bin  BUILDING.txt  conf  CONTRIBUTING.md  lib  LICENSE  logs  NOTICE  README.md  RELEASE-NOTES  RUNNING.txt  temp  webapps  work
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# cd bin
[root@ip-172-31-10-89 bin]# ls
bootstrap.jar  catalina-tasks.xml  commons-daemon.jar            configtest.sh  digest.sh     setclasspath.bat  shutdown.sh  tomcat-juli.jar       tool-wrapper.sh
catalina.bat   ciphers.bat         commons-daemon-native.tar.gz  daemon.sh      makebase.bat  setclasspath.sh   startup.bat  tomcat-native.tar.gz  version.bat
catalina.sh    ciphers.sh          configtest.bat                digest.bat     makebase.sh   shutdown.bat      startup.sh   tool-wrapper.bat      version.sh
[root@ip-172-31-10-89 bin]# chmod 777 startup.sh
[root@ip-172-31-10-89 bin]# chmod 777 shutdown.sh
[root@ip-172-31-10-89 bin]# find / -name statup.sh
[root@ip-172-31-10-89 bin]# find / -name startup.sh
/opt/apache-tomcat-9.0.44/bin/startup.sh
[root@ip-172-31-10-89 bin]# ln -s /opt/apache-tomcat-9.0.44/bin/startup.sh /usr/bin/tomcatstart
[root@ip-172-31-10-89 bin]# ln -s /opt/apache-tomcat-9.0.44/bin/shutdown.sh /usr/bin/tomcatstop
[root@ip-172-31-10-89 bin]# tomcatstart
Using CATALINA_BASE:   /opt/apache-tomcat-9.0.44
Using CATALINA_HOME:   /opt/apache-tomcat-9.0.44
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.44/temp
Using JRE_HOME:        /
Using CLASSPATH:       /opt/apache-tomcat-9.0.44/bin/bootstrap.jar:/opt/apache-tomcat-9.0.44/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
[root@ip-172-31-10-89 bin]# cd ..
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# ls
bin  BUILDING.txt  conf  CONTRIBUTING.md  lib  LICENSE  logs  NOTICE  README.md  RELEASE-NOTES  RUNNING.txt  temp  webapps  work
[root@ip-172-31-10-89 apache-tomcat-9.0.44]#
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0ccb79d2a6327ebfa

```
apache-tomcat-9.0.44/bin/catalina.sh
apache-tomcat-9.0.44/bin/ciphers.sh
apache-tomcat-9.0.44/bin/configtest.sh
apache-tomcat-9.0.44/bin/daemon.sh
apache-tomcat-9.0.44/bin/digest.sh
apache-tomcat-9.0.44/bin/makebase.sh
apache-tomcat-9.0.44/bin/setclasspath.sh
apache-tomcat-9.0.44/bin/shutdown.sh
apache-tomcat-9.0.44/bin/startup.sh
apache-tomcat-9.0.44/bin/tool-wrapper.sh
apache-tomcat-9.0.44/bin/version.sh
[root@ip-172-31-10-89 opt]# ls
apache-tomcat-9.0.44  apache-tomcat-9.0.44.tar.gz  aws  rh
[root@ip-172-31-10-89 opt]# cd apache-tomcat-9.0.44
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# ls
bin  BUILDING.txt  conf  CONTRIBUTING.md  lib  LICENSE  logs  NOTICE  README.md  RELEASE-NOTES  RUNNING.txt  temp  webapps  work
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# cd bin
[root@ip-172-31-10-89 bin]# ls
bootstrap.jar  catalina-tasks.xml  commons-daemon.jar           configtest.sh  digest.sh     setclasspath.bat  shutdown.sh  tomcat-juli.jar       tool-wrapper.sh
catalina.bat   ciphers.bat         commons-daemon-native.tar.gz  daemon.sh      makebase.bat  setclasspath.sh   startup.bat  tomcat-native.tar.gz  version.bat
catalina.sh    ciphers.sh          configtest.bat                digest.bat     makebase.sh   shutdown.bat      startup.sh   tool-wrapper.bat      version.sh
[root@ip-172-31-10-89 bin]# chmod 777 startup.sh
[root@ip-172-31-10-89 bin]# chmod 777 shutdown.sh
[root@ip-172-31-10-89 bin]# find / -name statup.sh
[root@ip-172-31-10-89 bin]# find / -name startup.sh
/opt/apache-tomcat-9.0.44/bin/startup.sh
[root@ip-172-31-10-89 bin]# ln -s /opt/apache-tomcat-9.0.44/bin/startup.sh /usr/bin/tomcatstart
[root@ip-172-31-10-89 bin]# ln -s /opt/apache-tomcat-9.0.44/bin/shutdown.sh /usr/bin/tomcatstop
[root@ip-172-31-10-89 bin]# tomcatstart
Using CATALINA_BASE:   /opt/apache-tomcat-9.0.44
Using CATALINA_HOME:   /opt/apache-tomcat-9.0.44
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.44/temp
Using JRE_HOME:        /
Using CLASSPATH:       /opt/apache-tomcat-9.0.44/bin/bootstrap.jar:/opt/apache-tomcat-9.0.44/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
[root@ip-172-31-10-89 bin]# cd ..
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# ls
bin  BUILDING.txt  conf  CONTRIBUTING.md  lib  LICENSE  logs  NOTICE  README.md  RELEASE-NOTES  RUNNING.txt  temp  webapps  work
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# cd conf
[root@ip-172-31-10-89 conf]#
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0ccb79d2a6327ebfa

```
apache-tomcat-9.0.44/bin/daemon.sh
apache-tomcat-9.0.44/bin/digest.sh
apache-tomcat-9.0.44/bin/makebase.sh
apache-tomcat-9.0.44/bin/setclasspath.sh
apache-tomcat-9.0.44/bin/shutdown.sh
apache-tomcat-9.0.44/bin/startup.sh
apache-tomcat-9.0.44/bin/tool-wrapper.sh
apache-tomcat-9.0.44/bin/version.sh
[root@ip-172-31-10-89 opt]# ls
apache-tomcat-9.0.44  apache-tomcat-9.0.44.tar.gz  aws  rh
[root@ip-172-31-10-89 opt]# cd apache-tomcat-9.0.44
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# ls
bin  BUILDING.txt  conf  CONTRIBUTING.md  lib  LICENSE  logs  NOTICE  README.md  RELEASE-NOTES  RUNNING.txt  temp  webapps  work
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# cd bin
[root@ip-172-31-10-89 bin]# ls
bootstrap.jar  catalina-tasks.xml  commons-daemon.jar           configtest.sh  digest.sh     setclasspath.bat  shutdown.sh  tomcat-juli.jar       tool-wrapper.sh
catalina.bat   ciphers.bat         commons-daemon-native.tar.gz  daemon.sh      makebase.bat  setclasspath.sh   startup.bat  tomcat-native.tar.gz  version.bat
catalina.sh    ciphers.sh          configtest.bat                digest.bat     makebase.sh   shutdown.bat      startup.sh   tool-wrapper.bat      version.sh
[root@ip-172-31-10-89 bin]# chmod 777 startup.sh
[root@ip-172-31-10-89 bin]# chmod 777 shutdown.sh
[root@ip-172-31-10-89 bin]# find / -name statup.sh
[root@ip-172-31-10-89 bin]# find / -name startup.sh
/opt/apache-tomcat-9.0.44/bin/startup.sh
[root@ip-172-31-10-89 bin]# ln -s /opt/apache-tomcat-9.0.44/bin/startup.sh /usr/bin/tomcatstart
[root@ip-172-31-10-89 bin]# ln -s /opt/apache-tomcat-9.0.44/bin/shutdown.sh /usr/bin/tomcatstop
[root@ip-172-31-10-89 bin]# tomcatstart
Using CATALINA_BASE:   /opt/apache-tomcat-9.0.44
Using CATALINA_HOME:   /opt/apache-tomcat-9.0.44
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.44/temp
Using JRE_HOME:        /
Using CLASSPATH:       /opt/apache-tomcat-9.0.44/bin/bootstrap.jar:/opt/apache-tomcat-9.0.44/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
[root@ip-172-31-10-89 bin]# cd ..
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# ls
bin  BUILDING.txt  conf  CONTRIBUTING.md  lib  LICENSE  logs  NOTICE  README.md  RELEASE-NOTES  RUNNING.txt  temp  webapps  work
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# cd conf
[root@ip-172-31-10-89 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
[root@ip-172-31-10-89 conf]#
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

```
apache-tomcat-9.0.44/bin/daemon.sh
apache-tomcat-9.0.44/bin/digest.sh
apache-tomcat-9.0.44/bin/makebase.sh
apache-tomcat-9.0.44/bin/setclasspath.sh
apache-tomcat-9.0.44/bin/shutdown.sh
apache-tomcat-9.0.44/bin/startup.sh
apache-tomcat-9.0.44/bin/tool-wrapper.sh
apache-tomcat-9.0.44/bin/version.sh
[root@ip-172-31-10-89 opt]# ls
apache-tomcat-9.0.44  apache-tomcat-9.0.44.tar.gz  aws  rh
[root@ip-172-31-10-89 opt]# cd apache-tomcat-9.0.44
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# ls
bin  BUILDING.txt  conf  CONTRIBUTING.md  lib  LICENSE  logs  NOTICE  README.md  RELEASE-NOTES  RUNNING.txt  temp  webapps  work
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# cd bin
[root@ip-172-31-10-89 bin]# ls
bootstrap.jar  catalina-tasks.xml  commons-daemon.jar           configtest.sh  digest.sh     setclasspath.bat  shutdown.sh  tomcat-juli.jar       tool-wrapper.sh
catalina.bat   ciphers.bat         commons-daemon-native.tar.gz  daemon.sh      makebase.bat  setclasspath.sh   startup.bat  tomcat-native.tar.gz  version.bat
catalina.sh    ciphers.sh          configtest.bat                digest.bat     makebase.sh   shutdown.bat      startup.sh   tool-wrapper.bat      version.sh
[root@ip-172-31-10-89 bin]# chmod 777 startup.sh
[root@ip-172-31-10-89 bin]# chmod 777 shutdown.sh
[root@ip-172-31-10-89 bin]# find / -name statup.sh
[root@ip-172-31-10-89 bin]# find / -name startup.sh
/opt/apache-tomcat-9.0.44/bin/startup.sh
[root@ip-172-31-10-89 bin]# ln -s /opt/apache-tomcat-9.0.44/bin/startup.sh /usr/bin/tomcatstart
[root@ip-172-31-10-89 bin]# ln -s /opt/apache-tomcat-9.0.44/bin/shutdown.sh /usr/bin/tomcatstop
[root@ip-172-31-10-89 bin]# tomcatstart
Using CATALINA_BASE:   /opt/apache-tomcat-9.0.44
Using CATALINA_HOME:   /opt/apache-tomcat-9.0.44
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.44/temp
Using JRE_HOME:        /
Using CLASSPATH:       /opt/apache-tomcat-9.0.44/bin/bootstrap.jar:/opt/apache-tomcat-9.0.44/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
[root@ip-172-31-10-89 bin]# cd ..
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# ls
bin  BUILDING.txt  conf  CONTRIBUTING.md  lib  LICENSE  logs  NOTICE  README.md  RELEASE-NOTES  RUNNING.txt  temp  webapps  work
[root@ip-172-31-10-89 apache-tomcat-9.0.44]# cd conf
[root@ip-172-31-10-89 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
[root@ip-172-31-10-89 conf]# vi server.xml
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

```
  <Resource name="UserDatabase" auth="Container"
            type="org.apache.catalina.UserDatabase"
            description="User database that can be updated and saved"
            factory="org.apache.catalina.users.MemoryUserDatabaseFactory"
            pathname="conf/tomcat-users.xml" />
  </GlobalNamingResources>

  <!-- A "Service" is a collection of one or more "Connectors" that share
       a single "Container" Note:  A "Service" is not itself a "Container",
       so you may not define subcomponents such as "Valves" at this level.
       Documentation at /docs/config/service.html
   -->
  <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 :
         Java HTTP Connector: /docs/config/http.html
         Java AJP  Connector: /docs/config/ajp.html
         APR (HTTP/AJP) Connector: /docs/apr.html
         Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
    -->
    <Connector port="8090" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443" />
    <!-- A "Connector" using the shared thread pool-->
    <!--
    <Connector executor="tomcatThreadPool"
               port="8080" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443" />
    -->
    <!-- Define an SSL/TLS HTTP/1.1 Connector on port 8443
"server.xml" 171L, 7588C written
[root@ip-172-31-10-89 conf]# tomcatstop
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

```
  <!-- A "Service" is a collection of one or more "Connectors" that share
       a single "Container" Note:  A "Service" is not itself a "Container",
       so you may not define subcomponents such as "Valves" at this level.
       Documentation at /docs/config/service.html
  -->
  <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 :
         Java HTTP Connector: /docs/config/http.html
         Java AJP  Connector: /docs/config/ajp.html
         APR (HTTP/AJP) Connector: /docs/apr.html
         Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
    -->
    <Connector port="8090" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443" />
    <!-- A "Connector" using the shared thread pool-->
    <!--
    <Connector executor="tomcatThreadPool"
               port="8080" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443" />
    -->
    <!-- Define an SSL/TLS HTTP/1.1 Connector on port 8443
"server.xml" 171L, 7588C written
[root@ip-172-31-10-89 conf]# tomcatstop
Using CATALINA_BASE:   /opt/apache-tomcat-9.0.44
Using CATALINA_HOME:   /opt/apache-tomcat-9.0.44
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.44/temp
Using JRE_HOME:        /
Using CLASSPATH:       /opt/apache-tomcat-9.0.44/bin/bootstrap.jar:/opt/apache-tomcat-9.0.44/bin/tomcat-juli.jar
Using CATALINA_OPTS:
[root@ip-172-31-10-89 conf]# tomcatstart
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

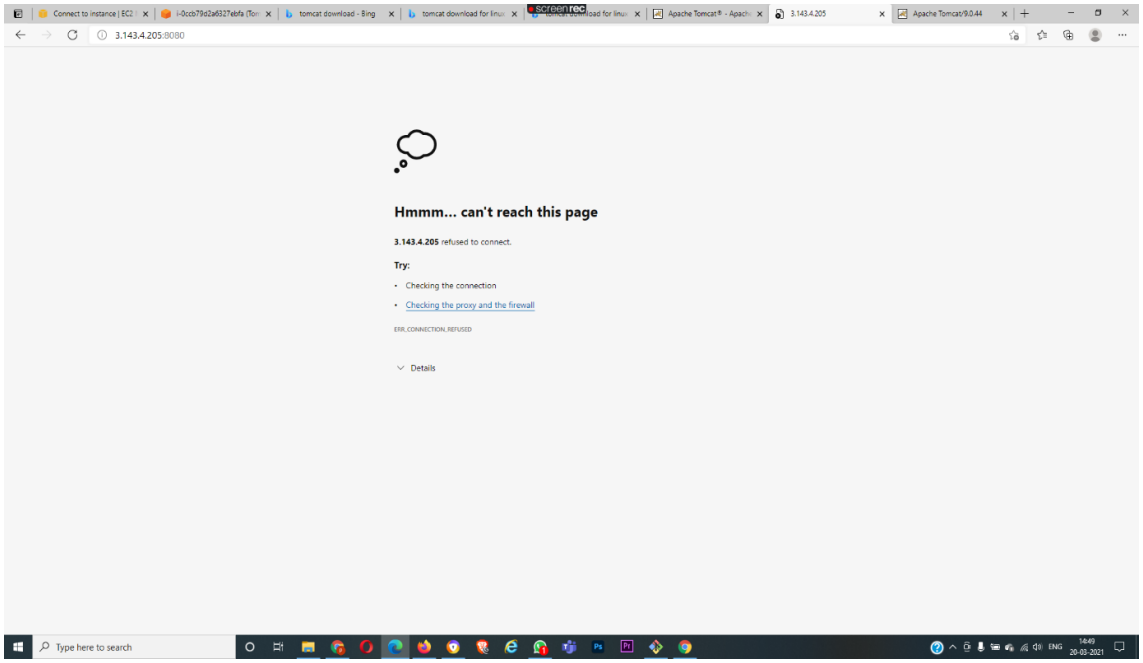
```
    <!--
    <Executor name="tomcatThreadPool" namePrefix="catalina-exec-"
        maxThreads="150" minSpareThreads="4"/>
    -->


    <!-- A "Connector" represents an endpoint by which requests are received
         and responses are returned. Documentation at :
         Java HTTP Connector: /docs/config/http.html
         Java AJP  Connector: /docs/config/ajp.html
         APR (HTTP/AJP) Connector: /docs/apr.html
         Define a non-SSL/TLS HTTP/1.1 Connector on port 8080
    -->
    <Connector port="8090" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443" />
    <!-- A "Connector" using the shared thread pool-->
    <!--
    <Connector executor="tomcatThreadPool"
               port="8080" protocol="HTTP/1.1"
               connectionTimeout="20000"
               redirectPort="8443" />
    -->
    <!-- Define an SSL/TLS HTTP/1.1 Connector on port 8443
"server.xml" 171L, 7588C written
[root@ip-172-31-10-89 conf]# tomcatstop
Using CATALINA_BASE:   /opt/apache-tomcat-9.0.44
Using CATALINA_HOME:   /opt/apache-tomcat-9.0.44
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.44/temp
Using JRE_HOME:        /
Using CLASSPATH:       /opt/apache-tomcat-9.0.44/bin/bootstrap.jar:/opt/apache-tomcat-9.0.44/bin/tomcat-juli.jar
Using CATALINA_OPTS:
[root@ip-172-31-10-89 conf]# tomcatstart
Using CATALINA_BASE:   /opt/apache-tomcat-9.0.44
Using CATALINA_HOME:   /opt/apache-tomcat-9.0.44
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.44/temp
Using JRE_HOME:        /
Using CLASSPATH:       /opt/apache-tomcat-9.0.44/bin/bootstrap.jar:/opt/apache-tomcat-9.0.44/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
[root@ip-172-31-10-89 conf]#
```

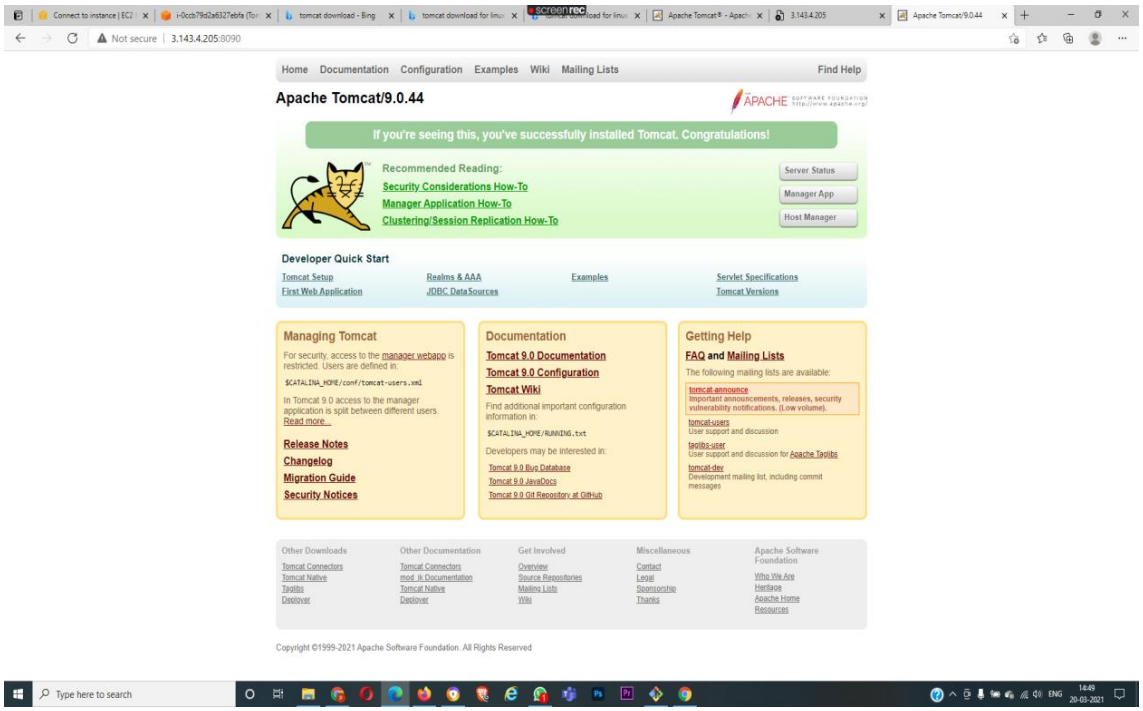
i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

AFTER SHUTDOWN AND STARTUP FOR PORT 8080



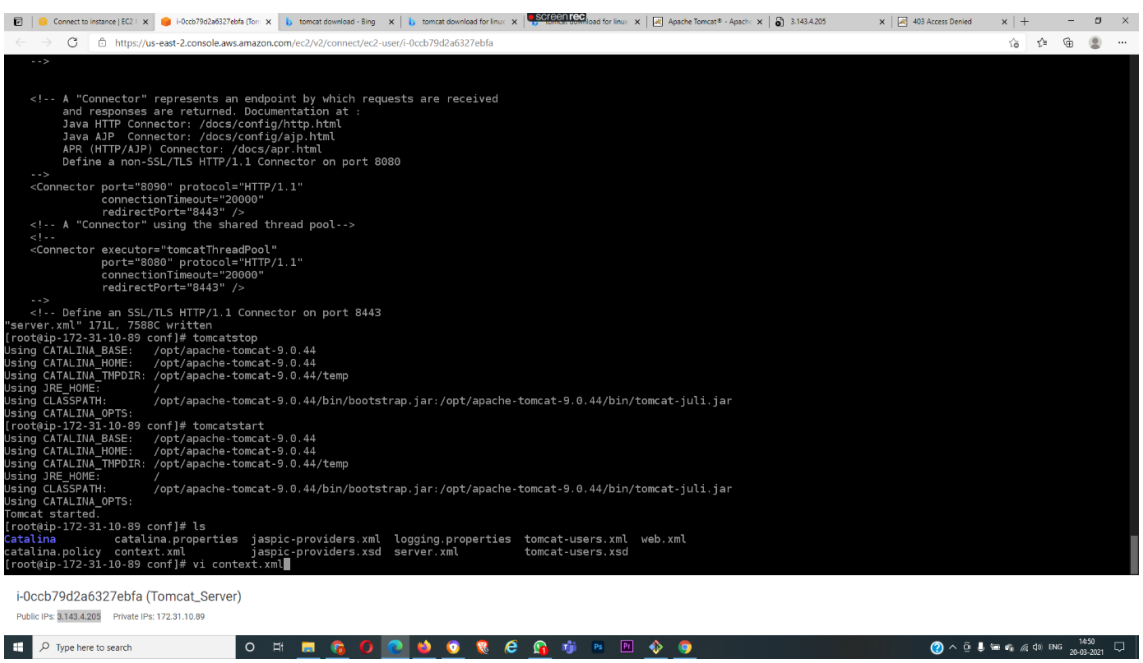
IN PORT 8090



INITIALLY WE CANT ACCESS THE MANAGER PAGE

EDITING CONTEXT FILE

COMMENTING THE VALUE



https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0ccb79d2a6327ebfa

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
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  this work for additional information regarding copyright ownership.
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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.
-->
<!-- The contents of this file will be loaded for each web application -->
<Context>

    <!-- Default set of monitored resources. If one of these changes, the    -->
    <!-- web application will be reloaded.                                   -->
    <WatchedResource>WEB-INF/web.xml</WatchedResource>
    <WatchedResource>WEB-INF/tomcat-web.xml</WatchedResource>
    <WatchedResource>${catalina.base}/conf/web.xml</WatchedResource>

    <!-- Uncomment this to disable session persistence across Tomcat restarts -->
    <!--
    <Manager pathname="" />
    -->
</Context>
~
~
~
~
~
~
~
~
"context.xml" 31L, 1400C
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-0ccb79d2a6327ebfa

```
<!--
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  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.
-->
<!-- The contents of this file will be loaded for each web application -->
<Context>

    <!-- Default set of monitored resources. If one of these changes, the    -->
    <!-- web application will be reloaded.                                   -->
    <WatchedResource>WEB-INF/web.xml</WatchedResource>
    <WatchedResource>WEB-INF/tomcat-web.xml</WatchedResource>
    <WatchedResource>${catalina.base}/conf/web.xml</WatchedResource>

    <!-- Uncomment this to disable session persistence across Tomcat restarts -->
    <!--
    <Manager pathname="" />
    -->
</Context>
~
~
~
~
~
~
~
~
~
"context.xml" 31L, 1400C written
[root@ip-172-31-10-89 conf]# find / -name context.xml
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

```
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 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.
-->
<!-- The contents of this file will be loaded for each web application -->
<Context>

    <!-- Default set of monitored resources. If one of these changes, the    -->
    <!-- web application will be reloaded.                                   -->
    <WatchedResource>WEB-INF/web.xml</WatchedResource>
    <WatchedResource>WEB-INF/tomcat-web.xml</WatchedResource>
    <WatchedResource>${catalina.base}/conf/web.xml</WatchedResource>

    <!-- Uncomment this to disable session persistence across Tomcat restarts -->
    <!--
    <Manager pathname="" />
     -->
</Context>
~
~
~
~
~
~
~
~
~
"context.xml" 31L, 1400C written
[root@ip-172-31-10-89 conf]# find / -name context.xml
/opt/apache-tomcat-9.0.44/conf/context.xml
/opt/apache-tomcat-9.0.44/webapps/examples/META-INF/context.xml
/opt/apache-tomcat-9.0.44/webapps/host-manager/META-INF/context.xml
/opt/apache-tomcat-9.0.44/webapps/manager/META-INF/context.xml
[root@ip-172-31-10-89 conf]# vi /opt/apache-tomcat-9.0.44/webapps/manager/META-INF/context.xml
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
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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+\.\d+|::1|0:0:0:0:0:0:0:1" />
  <Manager sessionAttributeValueClassNameFilter="java\.lang\.(?:Boolean|Integer|Long|Number|String)|org\.apache\.catalina\.filters\.CsrfPreventionFilter\$LruCache(?:\$1)?|ja
va\.util\.(?:Linked)?HashMap"/>
</Context>
~
~
~
~
~
~
~
~
~
~
~
~
~
~
-- INSERT --
```
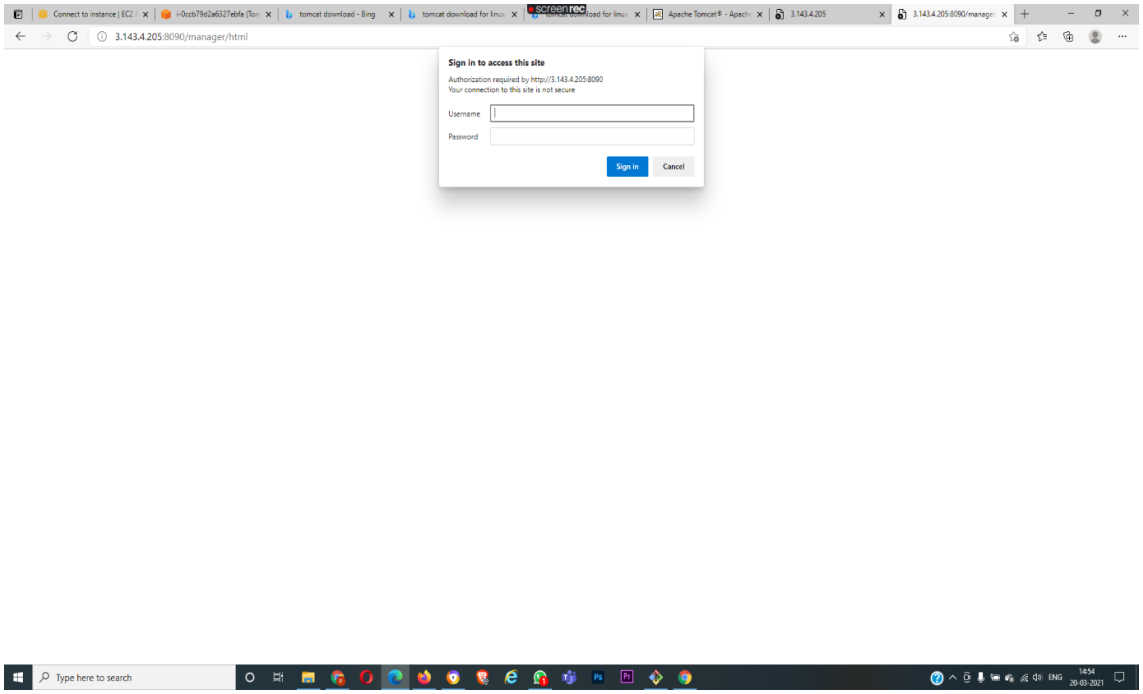
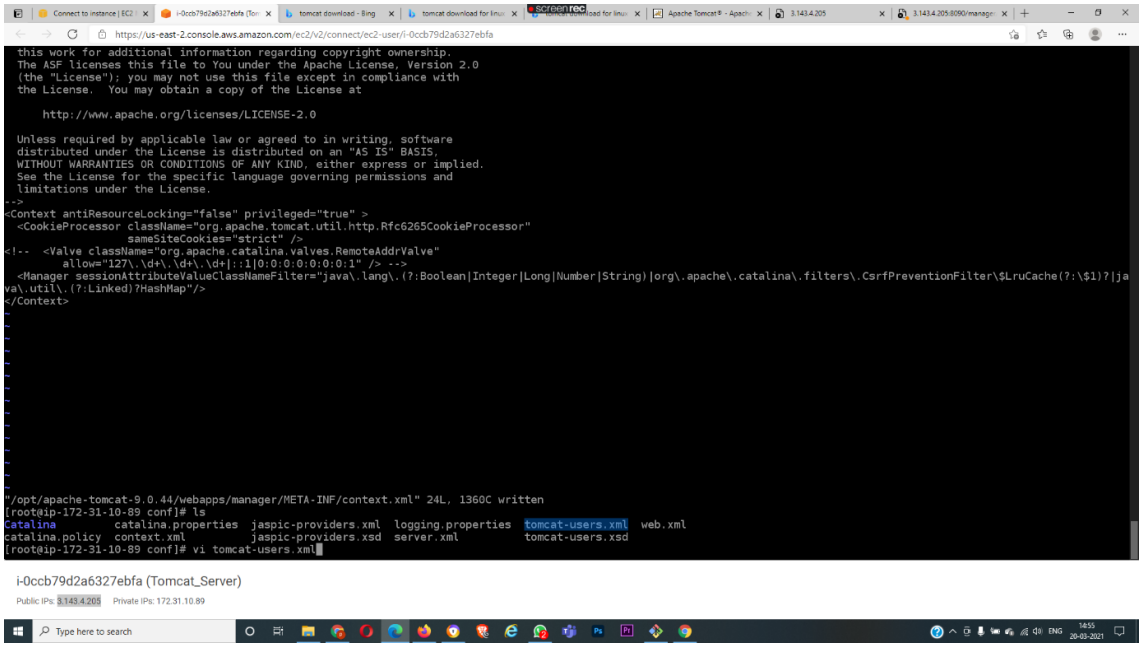

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

NEED USERNAME AND PASSWORD



CREATING USER AND ROLES



```
<?xml version="1.0" encoding="UTF-8"?>
<!--
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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">
<!--
  NOTE:  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. It is
  strongly recommended that you do NOT use one of the users in the commented out
  section below since they are intended for use with the examples web
  application.
-->
<!--
  NOTE:  The sample user and role entries below are intended for use with the
  examples web application. They are wrapped in a comment and thus are ignored
  when reading this file. If you wish to configure these users for use with the
  examples web application, do not forget to remove the <!.. ..> that surrounds
  them. You will also need to set the passwords to something appropriate.
-->
<!--
  <role rolename="tomcat"/>
  <role rolename="role1"/>
  <user username="tomcat" password="<must-be-changed>" roles="tomcat"/>
"tomcat-users.xml" 44L, 2164C
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

```
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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">
<!--
  NOTE:  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. It is
  strongly recommended that you do NOT use one of the users in the commented out
  section below since they are intended for use with the examples web
  application.
-->
<!--
  NOTE:  The sample user and role entries below are intended for use with the
  examples web application. They are wrapped in a comment and thus are ignored
  when reading this file. If you wish to configure these users for use with the
  examples web application, do not forget to remove the <!.. ..> that surrounds
  them. You will also need to set the passwords to something appropriate.
-->
<role rolename="manager-gui"/>
<role rolename="manager-script"/>
<role rolename="manager-jmx"/>
<role rolename="manager-status"/>
<user username="admin" password="vino123"roles="manager-gui,manager-script,manager-jmx,manager-status"/>
<user username="deployer" password="vino123" roles="manager-script"/>
<user username="tomcat" password="<vino123>" roles="manager-gui"/>
<!--
  <role rolename="tomcat"/>
  <role rolename="role1"/>
  <user username="tomcat" password="<must-be-changed>" roles="tomcat"/>
  <user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

RESTARTING THE TOMCAT SERVER

```
  you must define such a user - the username and password are arbitrary. It is
  strongly recommended that you do NOT use one of the users in the commented out
  section below since they are intended for use with the examples web
  application.
-->
<!--
  NOTE:  The sample user and role entries below are intended for use with the
  examples web application. They are wrapped in a comment and thus are ignored
  when reading this file. If you wish to configure these users for use with the
  examples web application, do not forget to remove the <!.. ..> that surrounds
  them. You will also need to set the passwords to something appropriate.
-->
<role rolename="manager-gui"/>
<role rolename="manager-script"/>
<role rolename="manager-jmx"/>
<role rolename="manager-status"/>
<user username="admin" password="vino123"roles="manager-gui,manager-script,manager-jmx,manager-status"/>
<user username="deployer" password="vino123" roles="manager-script"/>
<user username="tomcat" password="<vino123>" roles="manager-gui"/>
<!--
  <role rolename="tomcat"/>
  <role rolename="role1"/>
  <user username="tomcat" password="<must-be-changed>" roles="tomcat"/>
  <user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
"tomcat-users.xml" 51L, 2536C written
[root@ip-172-31-10-89 conf]# tomcatstop
Using CATALINA_BASE:   /opt/apache-tomcat-9.0.44
Using CATALINA_HOME:   /opt/apache-tomcat-9.0.44
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.44/temp
Using JRE_HOME:        /
Using CLASSPATH:       /opt/apache-tomcat-9.0.44/bin/bootstrap.jar:/opt/apache-tomcat-9.0.44/bin/tomcat-juli.jar
Using CATALINA_OPTS:
[root@ip-172-31-10-89 conf]# tomcatstart
Using CATALINA_BASE:   /opt/apache-tomcat-9.0.44
Using CATALINA_HOME:   /opt/apache-tomcat-9.0.44
Using CATALINA_TMPDIR: /opt/apache-tomcat-9.0.44/temp
Using JRE_HOME:        /
Using CLASSPATH:       /opt/apache-tomcat-9.0.44/bin/bootstrap.jar:/opt/apache-tomcat-9.0.44/bin/tomcat-juli.jar
Using CATALINA_OPTS:
Tomcat started.
[root@ip-172-31-10-89 conf]#
```

i-0ccb79d2a6327ebfa (Tomcat_Server)

Public IPs: 3.143.4.205 Private IPs: 172.31.10.89

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 (required):
XML Configuration file path:
WAR or Directory path:
Deploy

WAR file to deploy

Select WAR file to upload Choose File No file chosen
Deploy

Configuration

THANK YOU