Build Tool assignment

• Write a shell script to automate Install git, install maven, install java, install tomcat pull repository which contains source

code, build java application using maven steps. And set tomcat server user configuration

setting. # Update package list sudo yum update -y # Install Git sudo yum install -y git # Install Java sudo yum install -y java # Install Maven sudo yum install -y maven #tomcat installation #download tomcat application using wget wget https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.91/bin/apache-tomcat-9.0.91.tar.gz #uzip the the downloaded file tar -xvzf apache-tomcat-9.0.91.tar.gz #remove compressed (tar.gz) file rm -rf apache-tomcat-9.0.91.tar.gz #rename the file mv apache-tomcat-9.0.91 tomcat #start the tomcat

sh /home/ec2-user/tomcat/bin/startup.sh

#clone source code to local repo

git clone https://github.com/sunilb66/java-hello-world-with-maven

cd java-hello-world-with-maven

mvn clean install

cd target

cp /home/ec2-user/java-hello-world-with-maven/target/jb-hello-world-maven-0.2.0.jar /home/ec2-

user/tomcat/webapps/

- Steps to configure tomcat server user configuration setting (server status/manger/host manager)
- 1) Add port number 8080 in inbound rules of EC2 instance
- 2) Navigate to path /home/ec2-user/tomcat/webapps/manager/META-INF
- 3) Vi context.xml
- 4) Comment out the value

<!-- <Valve className="org.apache.catalina.valves.RemoteAddrValve"

- 5) Navigate to path /home/ec2-user/tomcat/webapps/host-manager/META-INF
- 6) Vi context.xml
- 7) Comment out the value

<!-- <Valve className="org.apache.catalina.valves.RemoteAddrValve"

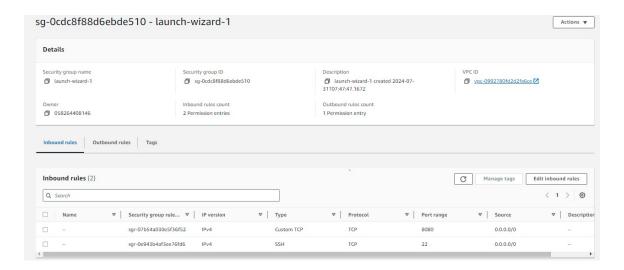
```
allow="127\.\d+\.\d+\.\d+|::1|0:0:0:0:0:0:0:1" />-->
```

- 8) Navigate the path cd tomcat/conf
- 9) vi tomcat-users.xml
- 10) add roles and set username, passwords (admin,admin-gui,manager,manager-gui)

11) Restart the tomcat sh tomcat/bin/startup.sh

```
© EC2
cat: scipt.sh: No such file or directory
[ec2-user@ip-172-31-35-77 ~]$ cat script.sh
#!/bin/bash
# Update package list
sudo yum update -y
# Install Git
sudo yum install -y git
# Install Java
sudo yum install -y java
# Install Maven
sudo yum install -y maven

#tomcat installation
#download tomcat application using wget
#uzip the the downloaded file
tar -xvzf apache-tomcat-9.0.91.tar.gz
#remove compressed (tar.gz) file
rm -rf apache-tomcat-9.0.91.tar.gz
#rename the file
mv apache-tomcat-9.0.91 tomcat
#start the tomcat
sh /home/ec2-user/tomcat/bin/startup.sh
#clone source code to local repo
git clone https://github.com/sunilb66/java-hello-world-with-maven
cd java-hello-world-with-maven
nvn clean install
d target
cp /home/ec2-user/java-hello-world-with-maven/target/jb-hello-world-maven-0.2.0.jar /home/ec2-
user/tomcat/webapps/
[ec2-user@ip-172-31-35-77 ~]$
```



--> sh script.sh

```
Tomcat started.
Cloning into 'java-hello-world-with-maven'...
remote: Enumerating objects: 81, done.
remote: Total 81 (delta 0), reused 0 (delta 0), pack-reused 81
Receiving objects: 100% (81/81), 15.12 KiB | 1.16 MiB/s, done.
Resolving deltas: 100% (27/27), done.
 ownloaded from central: https://repo.maven.apache.org/maven2/joda-time/joda-time/2.2/joda-time-2.2.jar (574 kB at 4.8 MB/s)
          - maven-clean-plugin:2.5:clean (default-clean) @ jb-hello-world-maven
[INFO] -
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom
Ownloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/2.0.6/maven-plugin-api-2.0.6.pom (1.5 kB at 132
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0/plexus-utils-3.0.jar (226 kB at 3.4 MB/s)
            maven-resources-plugin: 2.6: resources (default-resources) @ jb-hello-world-maven ---
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-project/2.0.6/maven-project-2.0.6.pom
                    entral: https://repo.mayen.apache.org/mayen2/backport-util-concurrent/backport-util-concurrent/3.1/backport-util-concurrent-3
l.jar (332 kB at 959 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/google/guava/guava/11.0.2/guava-11.0.2.jar (1.6 MB at 3.9 MB/s)
 INFO] Including joda-time:joda-time:jar:2.2 in the shaded jar.
INFO] Replacing original artifact with shaded artifact.
INFO] Replacing /home/ec2-user/java-hello-world-with-maven/target/jb-hello-world-maven-0.2.0.jar with /home/ec2-user/java-hello-world-with-ma
 n/target/jb-hello-world-maven-0.2.0-shaded.jar
INFO] Dependency-reduced POM written at: /home/ec2-user/java-hello-world-with-maven/dependency-reduced-pom.xml
 INFO] --- maven-install-plugin:2.4:install (default-install) @ jb-hello-world-maven ---
pwnloading from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-utils-3.0.5.pom
pwnloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.5/plexus-utils-3.0.5.pom (2.5 kB at 209 kB/s)
  NFO] Installing /home/ec2-user/java-hello-world-with-maven/target/jb-hello-world-maven-0.2.0.jar to /home/ec2-user/.m2/repository/org/springf
 amework/jb-hello-world-maven/0.2.0/jb-hello-world-maven-0.2.0.jar
INFO] Installing /home/ec2-user/java-hello-world-maven/dependency-reduced-pom.xml to /home/ec2-user/.m2/repository/org/springframework/jb-hello-world-maven/dependency-reduced-pom.xml to /home/ec2-user/.m2/repository/org/springframework/jb-hello-world-maven-0.2.0.pom
 INFO]
 INFO] Total time: 10.910 s
INFO] Finished at: 2024-08-06T05:48:202
```

```
<?xml version="1.0" encoding="UTF-8"?>
<!--
Licensed to the Apache Software Foundation (ASF) under one or more
contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "Licenses"); you may not use this file except in compliance with
the License. You may obtain a copy of the License at
    http://www.apache.org/licenses/LICENSE-2.0

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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANN XIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
->

Context antiResourceLocking="false" privileged="true" >

Context antiResourceLocking="false" privileged="true" >

</pr>

<
```

```
The users below are wrapped in a comment and are therefore ignored. If you
 wish to configure one or more of these users for use with the manager web
 application, do not forget to remove the <!... > that surrounds them. You
 will also need to set the passwords to something appropriate.
 ->
<!--
 <user username="admin" password="<must-be-changed>" roles="manager-gui"/>
 <user username="robot" password="<must-be-changed>" roles="manager-script"/>
<!--
 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 <!\dots> 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"/>
 <user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
 <user username="role1" password="<must-be-changed>" roles="role1"/>
 ->
 <role rolename="admin"/>
 <role rolename="manager"/>
 <role rolename="admin-gui"/>
 <role rolename="manager-qui"/>
 <user username="admin" password="1234" roles="admin,manager,admin-gui,manager-gui"/>
(/tomcat-users>
"tomcat-users.xml" 62L, 2964B
```

Home Documentation Configuration Examples Wiki Mailing Lists

Find Help

Apache Tomcat/9.0.91

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

Server Status Manager App Host Manager

APACHE SOFTWARE FOUNDATION http://www.apache.org/

Developer Quick Start

Tomcat Setup First Web Application Realms & AAA JDBC Data Sources Examples

Servlet Specifications Tomcat Versions

Managing Tomcat

For security, access to the $\underline{\text{manager webapp}}$ is restricted. Users are defined in:

\$CATALINA_HOME/conf/tomcat-users.xml

In Tomcat 9.0 access to the manager application is split between different users. Read more...

Release Notes

Changelog

Documentation

Tomcat 9.0 Documentation Tomcat 9.0 Configuration Tomcat Wiki

Find additional important configuration information in:

\$CATALINA_HOME/RUNNING.txt

Developers may be interested in:

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





None specified

Tomcat Host Manager Application





/host-manager

Tomcat Web Application Manager

Message: Manager List Applications HTML Manager Help Manager Help Server Status Applications Path Version Display Name Running Sessions Start Stop Reload Undeploy None specified Welcome to Tomcat 0 Expire sessions with idle ≥ 30 minutes Start Stop Reload Undeploy /docs None specified Tomcat Documentation 0 Expire sessions with idle ≥ 30 Start Stop Reload Undeploy None specified Servlet and JSP Examples 0 /examples true Expire sessions | with idle ≥ | 30 Start Stop Reload Undeploy









Tomcat Virtual Host Manager

| Message: OK | | | <u></u> | |
|----------------------------------|--------------|--|-------------------|---------------|
| | | | | |
| Host Manager | | | | |
| <u>List Virtual Hosts</u> HTML H | | ost Manager Help | Host Manager Help | Server Status |
| | | | | |
| Host name | | | | |
| Host name | Host aliases | | Commands | |
| localhost | | Host Manager installed - commands disabled | | |
| | , | | | |
| Add Virtual Host | | | | |
| Host | | | | |