**AWS ADVANCE PROJECT 6:**

**Project Name: Installing and Configuring Apache tomcat server on Linux**

1. Install java

To install Java, use command;

* sudo su to change to root user.
* Use command; yum install java-1.8\*

Screenshot for java installation.

A screenshot of a computer

Description automatically generated

2. Install tomcat:

To install tomcat move, opt folders as below

* cd /opt
* wget https://mirrors.estointernet.in/apache/tomcat/tomcat-8/v8.5.61/bin/apache-tomcat-8.5.61.tar.gz

Screenshot of tomcat installation.

Text

Description automatically generated

* tar -zvxf apache-tomcat-8.5.61.tar.gz
* tar-zvxf command is for extracting files form the folder.

Screenshots

A screenshot of a computer

Description automatically generated with medium confidence

Modify permissions for startup.sh and shutdown.sh.

Before modifying, check on permissions allowed.

Ps -ef | grep filename command is used

* chmod +x startup.sh
* chmod +x shutdown.sh

Screenshots for modifA screenshot of a computer

Description automatically generated with medium confidenceying permissions.

Create a softlink; to enable access to folders and execution of commands from any folder.

Use echo $PATH command to find the path and find / -name startup.sh

* ln -s path /usr/bin/tomcatup
* ln -s path /usr/bin/tomcatdown

Screenshots

Text

Description automatically generated

Screenshot of restarting the tomcat after creating soflink:

Text

Description automatically generated

Screenshot of Apache tomcat page after creating softlink in port 8080

Graphical user interface, application, website

Description automatically generated

Change the port to 8090

* edit server.xml
* vi server.xml

Screen shot after editing server. xml by changing port from 8080 to 8090

Text

Description automatically generated

* check configuration in 8090
* Graphical user interface, text, application

  Description automatically generated

Edit context.xml to allow manager apps access

* vi context.xml
* comment Valve

Screenshot after commenting the Valve;

Text

Description automatically generated

Text

Description automatically generated

Screenshot of the manager html after editing context.xml

Graphical user interface, application

Description automatically generated

Add users and roles to tomcat-users.xml

* vi command is used for editing files.
* vi tomcat-users.xml

Screenshot of tomcat-users implementation:

Text

Description automatically generated

Add the following roles

* <role rolename="manager-gui"/>
* <role rolename="manager-script"/>
* <role rolename="manager-jmx"/>
* <role rolename="manager-status"/>
* <user username="admin" password="eve123"

roles="manager-gui,managescript,manager-jmx,manager-status"/>

* <user username="deployer" password="eve123" roles="manager-script"/>
* <user username="tomcat" password="eve123" roles="manager-gui"/>

Screenshot after editing the tomcat-users.xml:

Text

Description automatically generated

Give a restart and check for web application manager

Screenshot of refreshed page of tomcat web page manager:

Graphical user interface, application, table

Description automatically generated