cd /opt/

tar xzf jdk-8u192-linux-x64.tar.gz ---- Syntax: tar xzf[source.tar.gz] --- extract a gzipped archive in the current directory.

create an archive from the files---- tar cf [target.tar] [file1][file2]

extract files matching pattern : tar xf [source.tar] - - wildcards[“\*.html”]

tar is an archiving utility which helps in storing multiple files into singlefile(archive) --archive may be DB, tape, file. Archive can stored on local and remote machine. The tar command on Linux is often used to create .tar.gz or .tgz archive files, also called “tarballs.”

Install JDK with below steps:

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cd /opt/

wget --no-cookies --no-check-certificate --header "Cookie: gpw\_e24=http%3A%2F%2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie" "https://download.oracle.com/otn-pub/java/jdk/8u192-b12/750e1c8617c5452694857ad95c3ee230/jdk-8u192-linux-x64.tar.gz"

**wget – is the command used to download the contents of the given URL**

tar -xvf jdk-8u192-linux-x64.tar.gz --x –execute b –Display verbose information

tar xzf jdk-8u192-linux-x64.tar.gz ---- Syntax: tar xzf[source.tar.gz] --- extract a gzipped archive in the current directory.

**Extracting files from Archive using option -xvf :**This command extracts files from Archives.

$ tar xvf file.tar

cd /opt/jdk1.8.0\_192/

# Setting up the environment variables with the below parameters. We have to set up the env. variables permanently using **.bash\_profile by navigating to root directory check with ls –lart command will show the hidden commands .bash\_profile is hidden**

#If we do **export** we can able to access the java from anywhere in the path.

vi .bash\_profile ----- make the below changes and save it. Each time when you change the bashprofile we have to source it.

export JAVA\_HOME=/opt/jdk1.8.0\_192

export PATH=$PATH:/opt/jdk1.8.0\_192/bin

source .bash\_profile

echo $PATH ---- will helpful in checking whether the has been set correctly

alternatives --install /usr/bin/java java /opt/jdk1.8.0\_192/bin/java 2

alternatives --config java

**alternatives is helpful in change the java environment from one to other. --- already I have other version installed, I will have to use the update one with the help of above version.**

There are 1 programs which provide 'java'.

Selection Command

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\* 1 /opt/jdk1.8.0\_192/bin/java

Enter to keep the current selection[+], or type selection number: 1

Install Maven

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cd /opt

wget https://www-eu.apache.org/dist/maven/maven-3/3.6.0/binaries/apache-maven-3.6.0-bin.zip

unzip apache-maven-3.6.0-bin.zip

export PATH=$PATH:/opt/apache-maven-3.6.0/bin

mvn -v

create a maven project

cd /opt

mkdir my\_maven\_projects

cd my\_maven\_projects

mvn archetype:generate -DgroupId=com.mycompany.app -DartifactId=my-app -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false

cd my-app

mvn clean

mvn compile

mvn package

JDK specific errors may occur, check and resolve