**Software Installation**

LOG INTO THE VIRTUAL MACHINE AND INSTALLATION OF SOFTWARE

Using of SSH : <https://www.putty.org/>

**Software Installation**

# (note that yum and dnf are effectively interchangable commands)

# ensure software is up to date

sudo yum update

# install nano editor and git and net-tools (ifconfig)

sudo yum install -y nano

sudo yum install -y git

sudo yum install -y net-tools

# install java 11

sudo yum install -y java-11-openjdk java-11-openjdk-devel

# check java 11 installed using

java -version

javac -version

# you may need to select which version is being used using alternatives to select java 11

sudo update-alternatives --config java

sudo update-alternatives --config javac

# install maven

sudo yum install -y maven

# maven will install and prefer java 8 - we need to change this to java 11

# create and edit a new file /etc/java/maven.conf

sudo nano /etc/java/maven.conf

# and add the lines

JAVA\_HOME=/usr/lib/jvm/jre

# check that maven is now picking up the correct java. You may need to re-set the alternatives as above.

mvn -version

Apache Maven 3.5.4 (Red Hat 3.5.4-5)

Maven home: /usr/share/maven

Java version: 11.0.20, vendor: Red Hat, Inc., runtime: /usr/lib/jvm/java-11-openjdk-11.0.20.0.8-3.el8\_8.x86\_64