

Rondus Technologies

Name:

LAB - Maven

=====

Install Java | maven | git

Script for Installation:

+++++

++

sudo hostname maven

sudo su

cd /opt

yum install wget nano tree unzip git-all -y

yum install java-11-openjdk-devel java-1.8.0-openjdk-devel -y

java -version

git --version

#2. Install Maven.sh

#-----

#Step1) Download the Maven Software

```
wget https://dlcdn.apache.org/maven/maven-3/3.8.7/binaries/apache-maven-3.8.7-bin.zip
```

```
unzip apache-maven-3.8.7-bin.zip
```

```
rm -rf apache-maven-3.8.7-bin.zip
```

```
mv apache-maven-3.8.7/ maven
```

Step3) Set Environmental Variable - For Specific User

```
vi ~/.bash_profile
```

```
echo "export M2_HOME=/opt/maven" >>
```

```
~/.bash_profile
```

```
echo "export PATH=$PATH:$M2_HOME/bin" >>
```

```
~/.bash_profile
```

step4) Activate the maven home and mvn by running

```
source ~/.bash_profile
```

```
mvn -version
```

```
+++++
```

Maven can also be installed using this command:

#yum install maven -y

this installs the latest version of maven found in the yum repository

#mvn -version -- 3.6.0

Next:

Clone the maven-standalone-application

cd maven-standalone-application

Run maven commands

mvn clean

mvn validate

mvn compile

mvn test

mvn package

mvn install

Lab: Questions on Maven

- 1. What is Maven and what is it used for?**
- 2. What is the Maven's buildscript?**
- 3. What do you understand as opensource software?**
- 4. What is build?**
- 5. What packages does maven create?**
- 6. What is maven's home directory?**

- 7. What is maven's lifecycles?**
- 8. What does mvn clean do?**
- 9. What does mvn validate do?**
- 10. What does mvn compile do?**
- 11. What does mvn package do?**
- 12. What does mvn install do?**
- 13. What does mvn deploy do?**
- 14. Explain what problem you faced in your maven project.**
- 15. Assuming that 699 test cases passed and 1 fails, what can be done for maven to still do a build?**
- 16. Some projects are taking too long to build, how can we resolve the issue?**
- 17. What is the difference between mvn package and mvn install?**
- 18. How can a specific module be built in a maven-enterprise-applications?**
- 19. How can we troubleshoot a failed build?**