--------07/08/17------------

---------Day 1--------------

We created linux machine

We connected to linux machine in the cloud

We installed apache webserver

We created a sample webpage

We are able to access it

Note: Linux is case sensitive use all small letters in commands

https://www.tecmint.com/useful-linux-commands-for-newbies/

cd - change directory

pwd- present working directory

ls -list

cd .. one path back

ls -ll

Mkdir — to make new directory

Ex: mkir nameoffolder

Touch— to create new file

Ex: touch filename

Vim — text editor

http://www.radford.edu/~mhtay/CPSC120/VIM\_Editor\_Commands.htm

yum install nameofthesoftware

Jira — ticket assigning tool in companies

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--------Day2--------------

GIT :

Dailynotes:

https://github.com/raghu4a4/dailynotes.git

**GIT Cheat Sheet :**

https://services.github.com/on-demand/downloads/github-git-cheat-sheet.pdf

GIT Download URL

<https://git-scm.com/downloads>

type : git –version

main commands in GIT:

git config --global user.name “username”

git config --global user.email [you@example.com](mailto:you@example.com)

git status

git add . – for adding files

git commit -m "sample file"

git push – to push into remote git repository

git pull – from remote repository to local repository

--MAVEN --

Prerequisites for Maven installation:

Install JRE/JDK:

Install Java for mac -- <https://www.java.com/en/download/mac_download.jsp>

Set JAVA\_HOME

<https://www.mkyong.com/java/how-to-set-java_home-environment-variable-on-mac-os-x/>

Download Maven

<https://maven.apache.org/download.cgi>

**Set Maven PATH**

export M2\_HOME="/Users/johndoe/Development/apache-maven-3.0.5"

export PATH=${PATH}:${M2\_HOME}/bin

**Sample Maven Project:**

https://github.com/raghu4a4/time-tracker.git

Maven POM expalanation:

POM – project object model

<https://maven.apache.org/guides/introduction/introduction-to-the-pom.html>

**HW:**

Difference between webserver and application server

Ex for webserver: apache or httpd, windows IIS

Ex for application server: apache-tomcat, websphere, weblogic

Maven Lifecycle

Install Maven and set home path

**----Day3------**

Deploy created war file into tomcat app server

**Tomcat:**

Download URL:

<http://tomcat.apache.org/download-90.cgi>

start the server in bin – ./startup.sh

**Add role authentication:**

In tomcat-users.xml

<role rolename="manager-gui"/>

<user username="admin" password="admin" roles="manager-gui"/>

Host the webapplication in webapps folder:

Restart tomcat

<http://localhost:8080/time-tracker-web-0.3.1-SNAPSHOT/>

Change the source code and rebuild and redeploy the server

Check the changes in the home page

**Jenkins Installation:**

[**https://jenkins.io/download/**](https://jenkins.io/download/)

**----Class 4--------**

**Jenkins workspace in Mac:**

/Users/Shared/Jenkins/Home/workspace

Jenkins Plugins walkthrough

Jenkins slave configurations

Workspace – shared workspace

Upstream and downstream jobs

Step1: I want to run Job A

Step2: I want to run Job B

Parametrized builds:

<https://wiki.jenkins.io/display/JENKINS/Building+a+software+project>

Log history

Jenkins system variables

Running shell commands in Jenkins

**Jenkins Installation on Ubuntu:**

**https://www.digitalocean.com/community/tutorials/how-to-install-jenkins-on-ubuntu-16-04**