**TICKETS FOR TUESDAY 5TH BY ENGINEERS MIMI, TJAY AND DAVID**

**MAVEN TWO**

1. Ticket\_saa\_tesla0014

Using your already installed mavenServer:

Create a project1 directory in the maven build server

Clone the code from github into the project1 directory

git clone <https://github.com/Landmark-Technologies/maven-standalone-application>

ls to verify cloning was successful

rename content to msa

use tree command to very if source code and test case exist

using mvn package, do a build to create .jar artifact

use tail command to verify success of build and time spent to run build

deploy the application using the java -jar command in target directory to see human readable content of the build

1. Secure your maven local repo by creating a custom maven local repo

* ls .m2/repository/ in home directory to locate repo to see content
* sudo into settings.xml file to create local repo using command;

sudo vi /opt/maven/conf/settings.xml (verify if you have one already, if yes, skip next step)

* add local repo in tmp directory

<localRepository>/tmp/mlr</localRepository>

* run mvn package again
* use sudo find command to search .jar artifact to verify custom maven local repo is valid (not seen)
* To upload packages to local repo, run mvn install
* Repeat sudo find command to search .jar artifact to verify custom maven local repo is valid
* Run mvn clean command to verify difference between default vs custom maven repos

**MAVEN THREE**

1. Ticket\_maven-002

Ensure you have an already installed mavenServer and a custom maven local repo ready then

Create project2 directory

Git clone into the directory this url <https://github.com/LandmakTechnology/maven-web-application>

ls to verify cloning was successful

rename content to mwa

use tree command to verify source code and pom.xml present

create web directory and copy src and pom.xml into it

modify pom.xml and make final name “dreamteam”

using mvn package, do a build to create .war artifact

use tail command to verify success of build and time spent to run build

run mvn install

verify difference between default vs custom maven repos using sudo find command to find .war artifact

1. In project2 directory created in task1, git clone this url <https://github.com/mylandmarktechs/maven-enterprise-application>

ls to verify cloning was successful

rename content to mea

use tree command to verify source code and pom.xml present for parent and child modules

using mvn package, do a build to create .ear artifact and verify in target directories

run mvn install

run a specific mvn package build on the MavenEnterpriseApp-web module alone

**INTERVIEW QUESTIONS TO DISCUSS**

**PREPARE ANSWER DOCUMENT TO SHARE WITH TEAM AT END OF DISCUSSION**

1. As a DevOps Engineer, what are your roles & responsibilities in Versioning with Git
2. What is the difference between git merge, git rebase and git cherry-pick
3. What is the difference between git fetch, git pull and git clone
4. What is the difference between git clean, git reset and git revert
5. What is the difference between tags and branches
6. What is the difference between Git & Github
7. Explain your branching strategy in LandmarkTechnology
8. How do you ensure branch security
9. What is your understanding of pull request
10. What kind of projects are you supporting in your environment (Landmark)
11. Can you explain what deployable packages from java consist of? Or how do you verify the developers have done their job with the code?
12. Explain the maven lifecycle
13. How are java-based web applications, java based standalone applications and java-based enterprise applications deployed
14. How can you trouble-shoot a fail build IN MAVEN