Test Drive and Development:

BDD- Behavior drive and development

Development->Build->Test->Deploy

Clubbing Build Test and Deploy—DevopS

Unit test- Junittesting---Part of development code and team

After this Testing team work comes—Manual/Automation/Regression Testing

Devops is not IT problem but a business problem (minimizing time of “Build-Test-Deploy” duration)

Adoption of devops:

1. Agile
2. Increased rate of production releases
3. Virtualized and cloud infrastructure
4. Automations

Devops vs Agile:

Agile-software development

Devops is software development and management

Devops- Continuous Integration, Continuous Delivery, Continuous Deployment

Rpm -uvh filename.rpm

How to do docker installation:

Docker file

FROM jenkins

EXPOSE 8080

go to that folder

docker build . -t Jenkins

docker run --name jenkins-sm -p 8086:8080 -v /Users/sowmiyanmorri/Documents/Devops:/var/jenkins\_home Jenkins

This is mapping Jenkins server path to my local folder path

Use the proxies from docker preferences

Jenkins option:

U can add git, maven,jdk path in Global tool configuration

**Maven:**

M**aven** is an open source tool that you may not have thought of as a '**DevOps** tool', but that's pretty much what it is for the development department. It's used in development, project standardization and automation which ties nicely into other open source tools like Puppet and Chef for the Operations side.

**Tomcat:**

Jenkins Build Jobs:

Jenkins Distributed Architecture:

Groovy scripting for Jenkins-Jenkins understand Groovy scripting

Build Pipeline Plugin