Contents:

- GIT
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GIT

Location: D:\Notes

Linux Command:

- > git -version
- > cd d:/ ----- Using git bash

General Git Command

- > git config --global user.name "Bimal1993"
- > git config --global user.email <u>arbimalkumar.1993@gmail.com</u>
- > git init
- > git status
- > git add src / git add -all --- Can use any add command add all or specific
- > git commit -m "First commit"

Create a repo:

Push Local Repository to GitHub:

- > git remote add origin https://github.com/Bimal1993/gitdemo.git
- > git push --set-upstream origin master

To generate Token:

Settings => Developer Settings => Personal Access Token => Generate New Token => Fillup the form => click Generate token => Copy the generated Token,

Add or make changes to the file:

- > git add src
- > git commit -m "Second commit"
- > git push --set-upstream origin master
- > git log //To check git logs

Git Branch:

- > git branch developer1
- > git branch
- developer1
- * master

\$ git checkout developer1

Git Merge:

- \$ git branch
- * developer1

Master

\$ git checkout master

\$ git merge developer1

\$ git add src

\$ git commit -m "new code from branch developer"

\$ git push --set-upstream origin master

Delete branch

\$ git push --delete origin developer1

Git conflicts:

<<<<< HEAD

open an issue

======

ask your question in IRC.

>>>>>

Docker

It include all dependency with version.

> docker -v

https://hub.docker.com/

- > docker images
- > docker pull bimal1993/docker-demo1
- > docker images
- > docker run bimal1993/java-docker-app

Create application:

Create a spring boot application

Dockerfile

FROM openjdk:8-jdk-alpine
EXPOSE 8080
ARG JAR_FILE=target/*.war
COPY \${JAR_FILE} app.war
ENTRYPOINT ["java","-jar","app.war"]

Option to build a docker file:

// build images.

20: docker build -f Dockerfile -t bimal1993/docker-demo1 .

//push images

21: docker push bimal1993/docker-demo1

//pull images

22: docker pull bimal1993/docker-demo1

// run image

23: docker run bimal1993/docker-demo1

```
// to remove image
24: docker rmi -f bimal1993/docker-demo1
1: create docker File.
DockerFile
FROM openjdk:8
ADD target/docker-spring-boot-.jar docker-spring-boot.jar
EXPOSE 8085
ENTRYPOINT ["java" "-jar" "docker-spring-boot.jar"]
$ docker -v
$ docker build -f docker -t docker-spring-boot .
$ docker images
$ docker run -p 8085:8085 docker-spring-boot
2: Docker run on background.
$ docker run -p 500:5000 -d bimal1993/java-docker-app2:firsttry
$ docker logs image-id (to check logs)
$ docker logs -f image-id (following logs)
3: Remove
$ docker images // to check docker images
$ docker container Is -a
$ docker container stop "container-id" //stop container.
$ docker container prune // remove all exited container.
$ docker image rm "image-d" // to remove an image " docker image rm 4bf278546754 7a9513ab1412 "
Plugin:
App.java
public class App {
public static void main(String[] args) {
System.out.println("Jenkins, docket automation");
AutomationDocker docker=new AutomationDocker();
System.out.println("Current Status: "+docker.getAutomationStatusInfo());
}
AutomationDocker.java
public class AutomationDocker {
public String getAutomationStatusInfo() {
return "Running";
```

}

Dockerfile
FROM openjdk:8-jdk-alpine
EXPOSE 8080
ARG JAR_FILE=target/*.jar
COPY \${JAR_FILE} app.jar
ENTRYPOINT ["java","-jar","app.jar"]

Steps to configure Genkins:

Sample console output:

Docker hub view:

Local machine view: