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Kumar

Case Study

GitHub

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# Case Study

Purpose of this case study to understand DevOps tools like git or github or gitlab or bitbucket or any other tools which can be used as a repository tool.

Requirements:

We want to have our own public/private repository where we can store our code base and use in all SDLC phases DevOps (CI/CD).

## Software / Hardware requirements:

1. Github account <https://github.com/>
2. Gitbash Install https://git-scm.com/downloads
3. git client installs
4. A VM with 1 CPU and 1 GB RAM
5. Port 22 and 443 opens
6. Note: you can use your VM

## Hints

1. Create new repository in github as casestudy.

Note casestudy = casestudy+yourfirstname, which will give unique for tracking purpose

2. Login into VM and open the Git Bash

3. Create new folder as case-study-code

4. cd case-study-code

5. git clone casestudy URL (which created in step 1 above)

6. cd casestudy

7. Create new file as Dockerfile (vi Dockerfile) with below contents

FROM centos

RUN mkdir /opt/tomcat/

WORKDIR /opt/tomcat

RUN yum -y install java

RUN java -version

RUN curl -O https://downloads.apache.org/tomcat/tomcat-8/v8.5.59/bin/apache-tomcat-8.5.59.tar.gz

RUN tar xvfz apache\*.tar.gz

RUN mv apache-tomcat-8.5.59/\* /opt/tomcat/.

#https://tomcat.apache.org/tomcat-8.0-doc/appdev/sample/

COPY ./sample.war /opt/tomcat/webapps

EXPOSE 8080

CMD ["/opt/tomcat/bin/catalina.sh", "run"]

7.1 Save and exit :wq!

8. git status

9. git add Dockerfile

10. git commit -m "Dockerfile for case study"

11. git push

12. Enter User name and Password for github.

13. Go to the Github GUI and select the repository and capture it as image and pest it in word file name with emp id and your name. e.g. 10000-kumar and share into case study folder