Auxilo CI/CD setup

1. Install jenkins on linux:-

<https://www.virtualizationhowto.com/2021/09/install-jenkins-on-ubuntu-21-04-with-self-signed-ssl-certificate/>

1. Install prometheus on linux:-

<https://www.vultr.com/docs/install-prometheus-server-on-ubuntu-20-04>

1. Install Sonarqube on linux:-

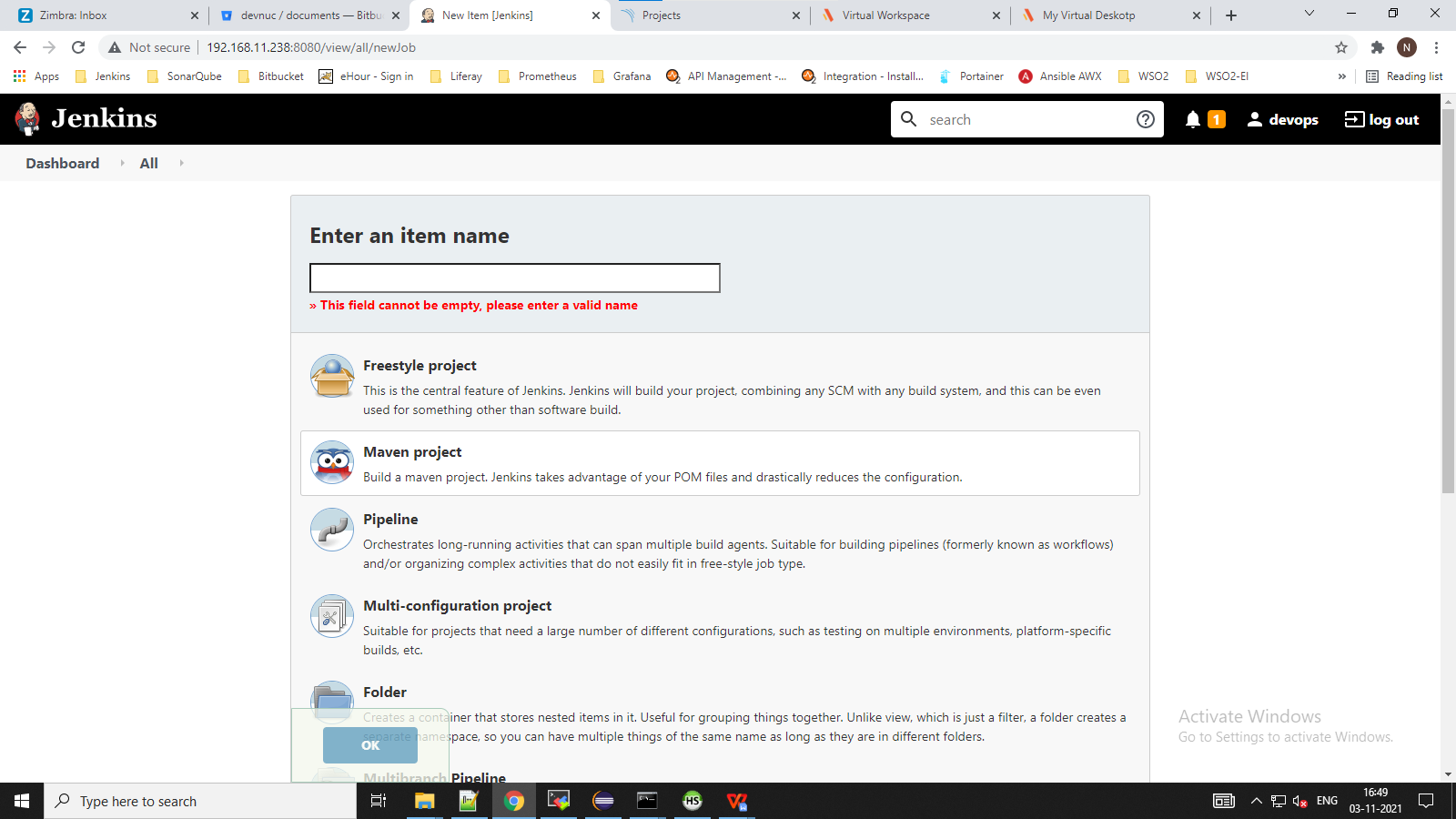
[Install SonarQube on Ubuntu 20.04 LTS - Vultr.com](https://www.vultr.com/docs/install-sonarqube-on-ubuntu-20-04-lts)

1. Install Sonar-scanner on linux:-

[Tutorial - Sonarqube Scanner Installation on Ubuntu Linux [ Step by Step ]](https://techexpert.tips/sonarqube/sonarqube-scanner-installation-ubuntu-linux/)

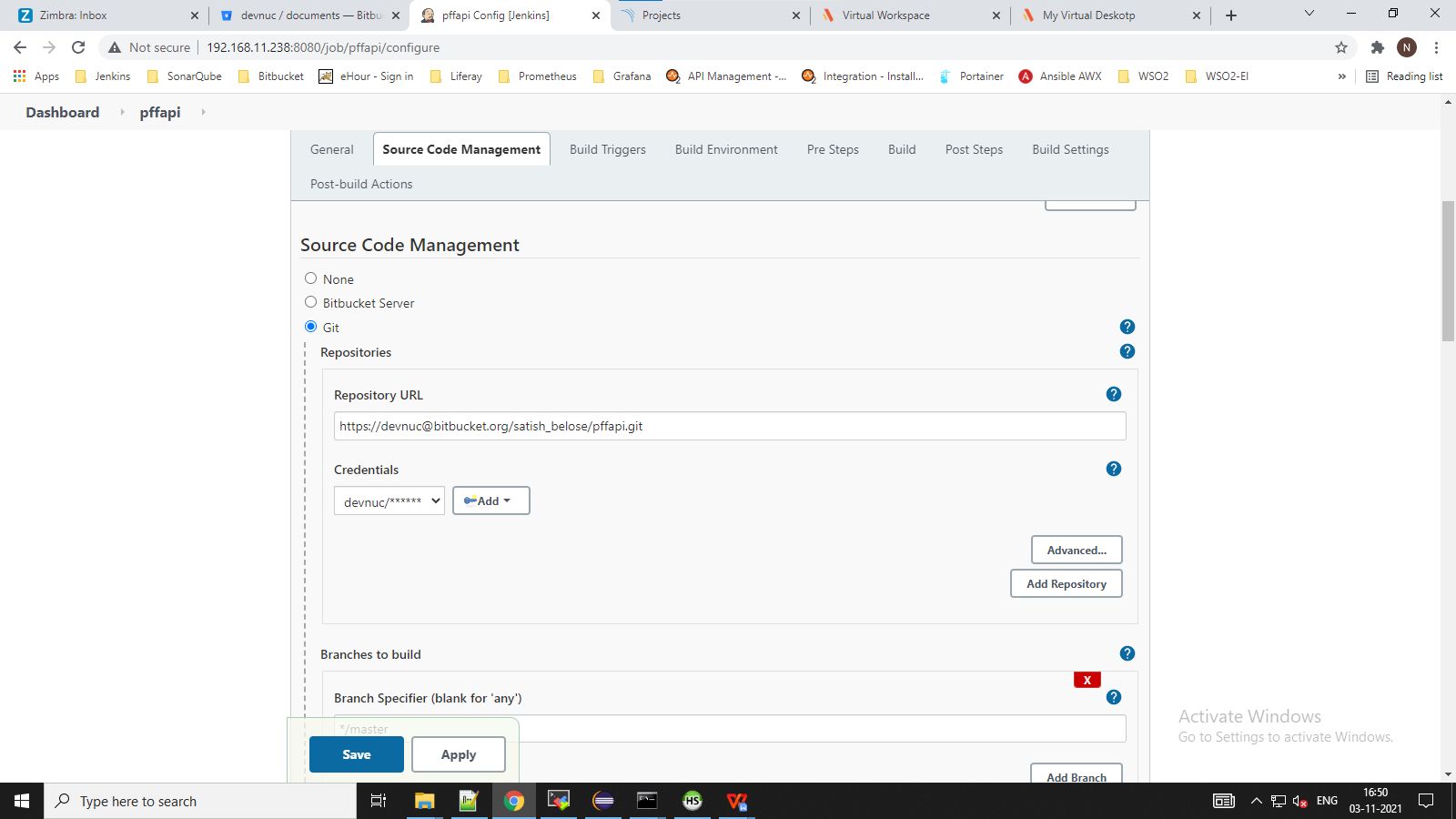
Step1:- Create Maven Project with specific API Name

Example:-**pffapi**



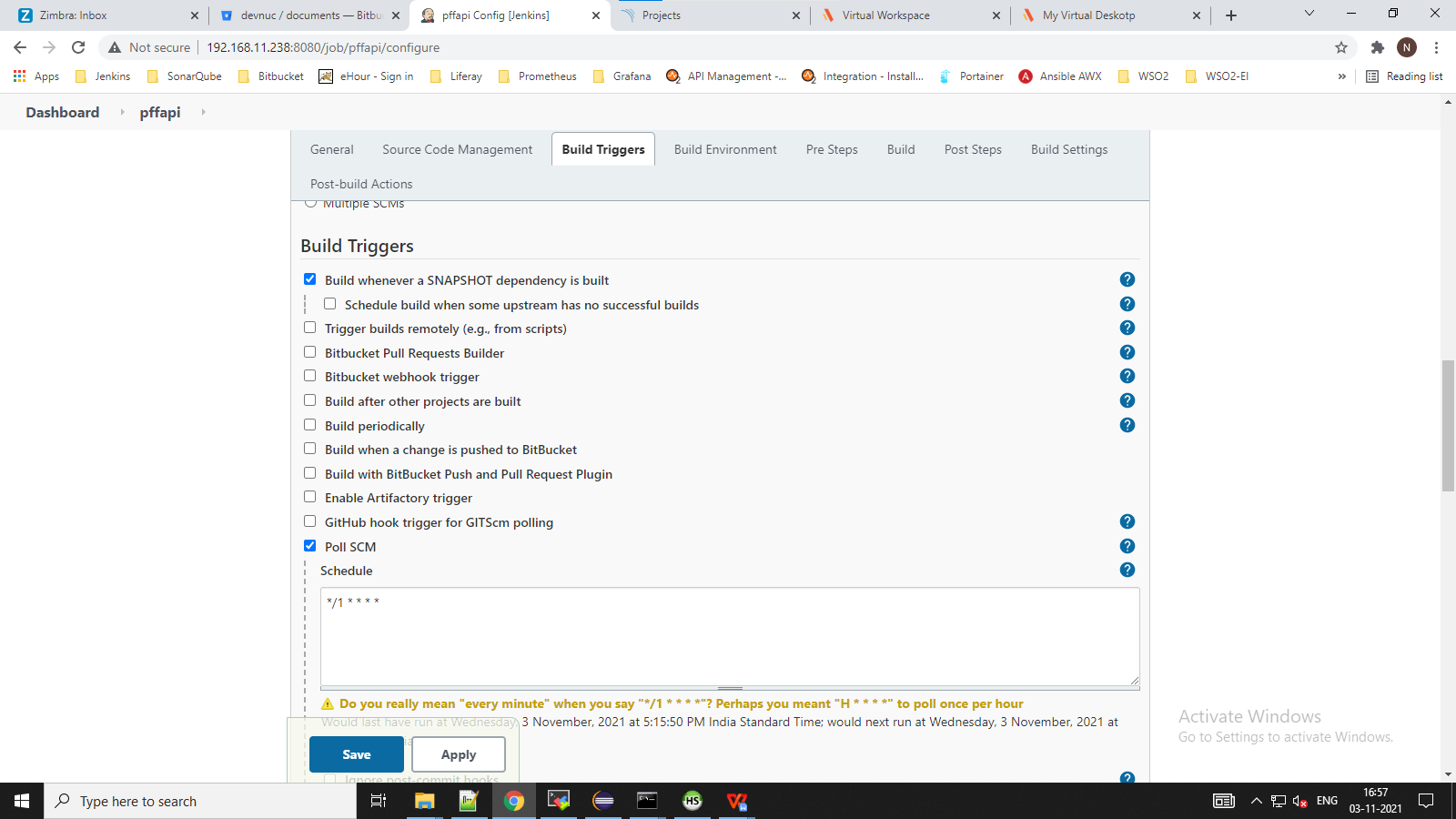
Step 2:- for bitbucket repository we select git as Source Code Management

**Provide repository URL and Credentials**



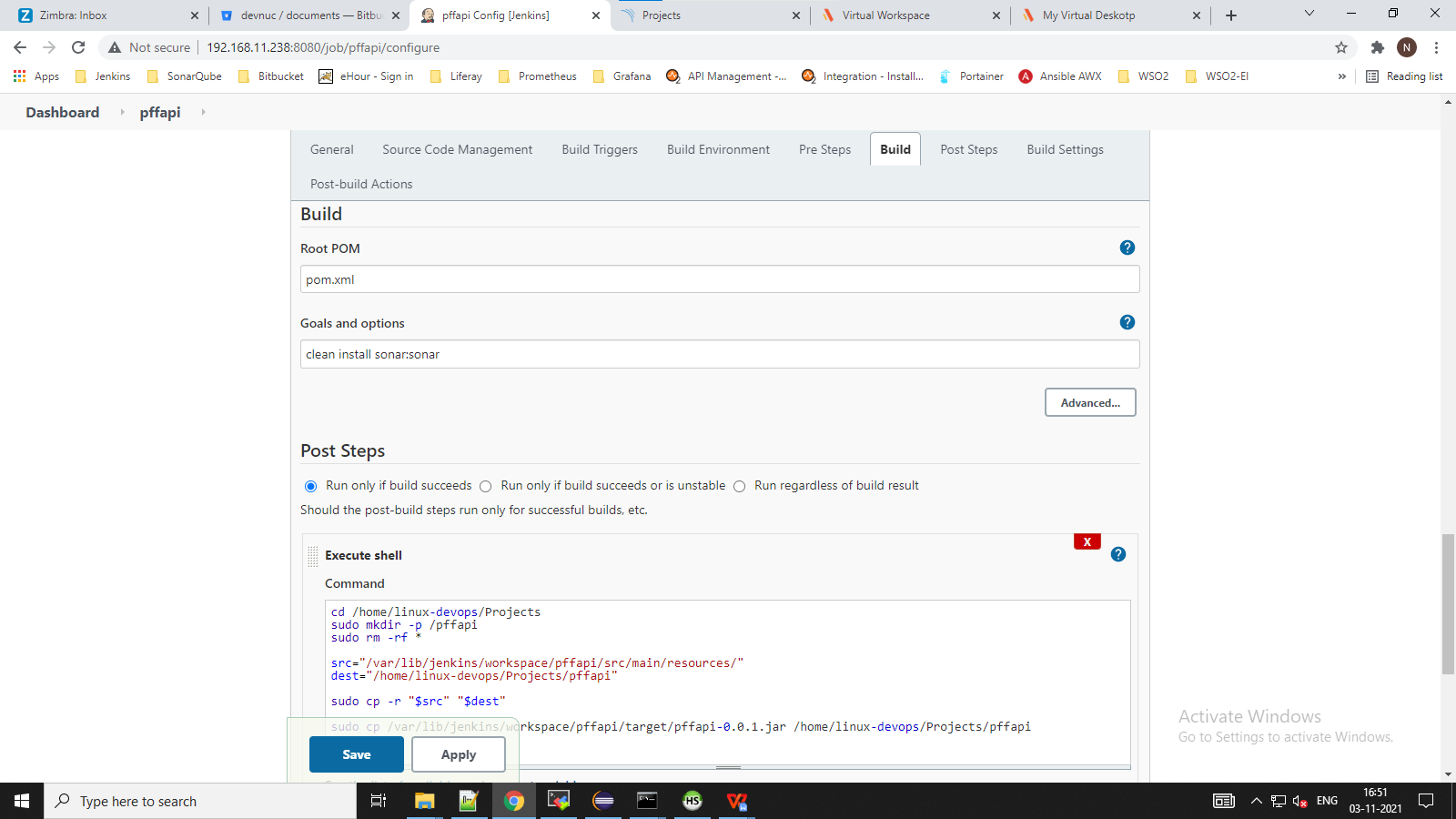
Step 3:- select Build Triggers as **Build whenever a SNAPSHOT dependency is built**

And Poll SCM schedule as \*/1 \* \* \* \* (whenever anything push to master repository it will trigger the build)



Step 4:- In build section

Root POM as **pom.xml** and Goals and options as **clean install sonar:sonar** (Build jar file and execute sonar scan analysis)



Step 5:- In Post Steps select **Run only if build succeeds** and select execute shell script as below:-

cd /home/linux-devops/Projects //change directory to desired location

sudo mkdir -p /pffapi //(create folder as API name for example:- pffapi )

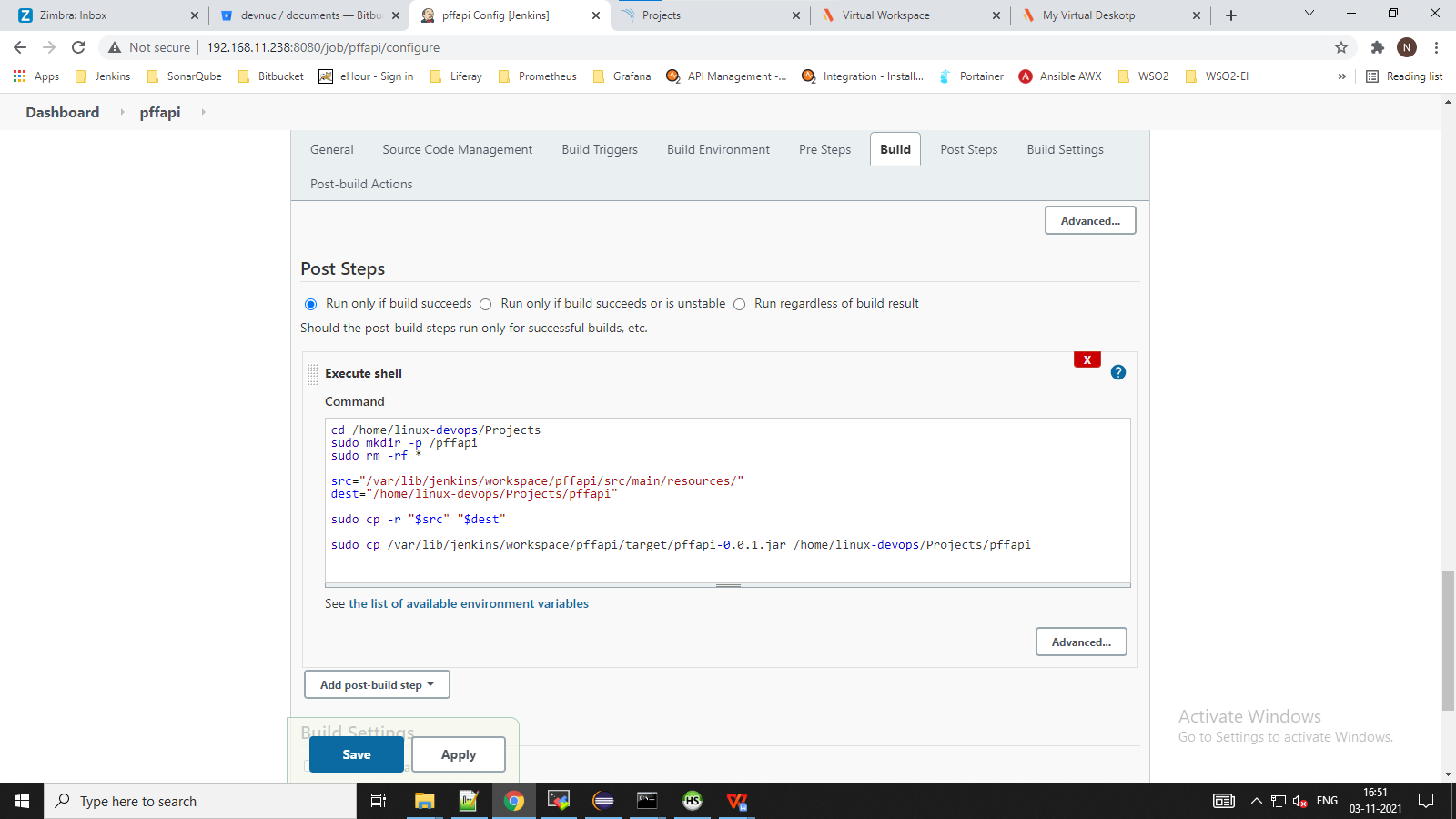
sudo rm -rf \* //(clean everything from pffapi folder before copying from jenkins workspace)

src="/var/lib/jenkins/workspace/pffapi/src/main/resources/" //(create source path variable as src)

dest="/home/linux-devops/Projects/pffapi" //(create destination path variable as dest)

sudo cp -r "$src" "$dest" //(copy folders/file from source to destination)

sudo cp /var/lib/jenkins/workspace/pffapi/target/pffapi-0.0.1.jar /home/linux-devops/Projects/pffapi (Copy jar file from source to destination)



Install Tomcat 9 on linux:-

https://tutorialforlinux.com/2021/03/30/step-by-step-tomcat-9-ubuntu-21-04-installation/2/