DEVOPS PROFESSIONAL CERTIFICATION PROGRAM

Lab – 3: Jenkins + SCM

- Create Freestyle job and perform build process - Java code

Explore

- Perform integrating multiple repository / branches

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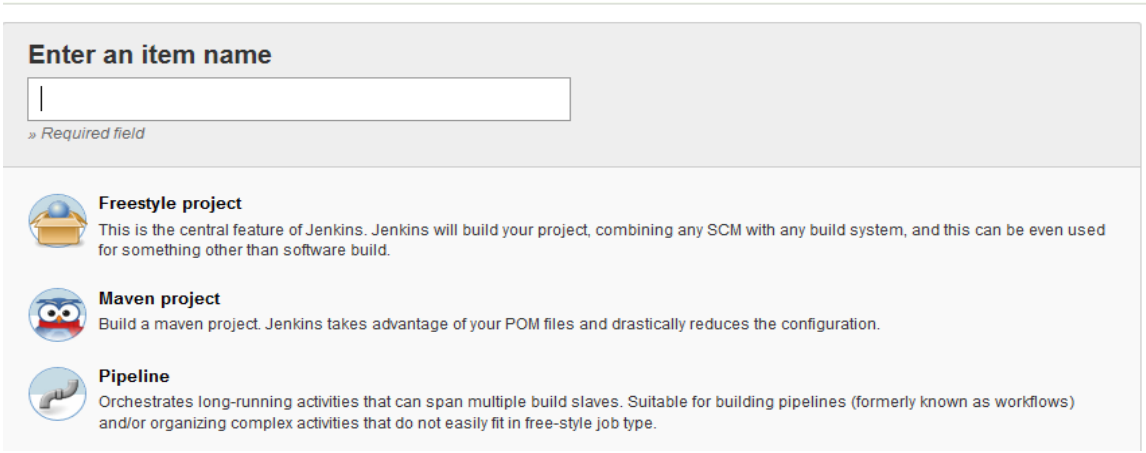
Create Jenkins Job (Freestyle)

Assumptions

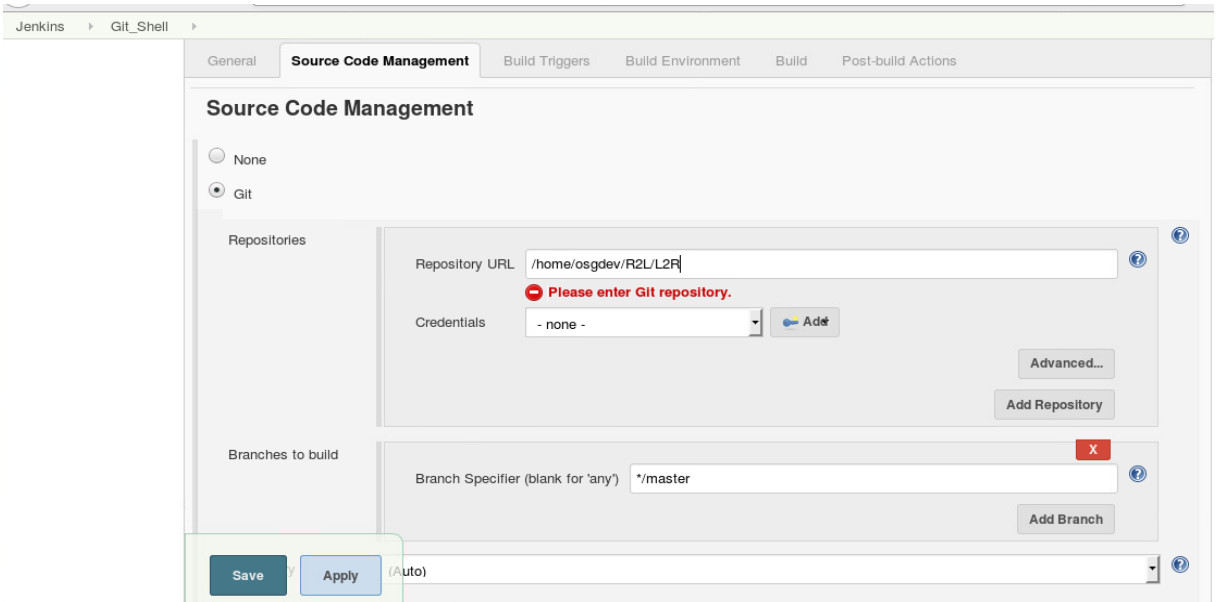
- Jenkins is Up & Running
- Necessary plugins are installed and configured

✓ Create Freestyle Jenkins Job
✓ Configure SCM (Git/Gitlab)
✓ Construct Build processing steps within "Build" section
  - Construct shell commands to do build process (Java project)
✓ Run with "Build Now"
✓ Observe Build History and console output

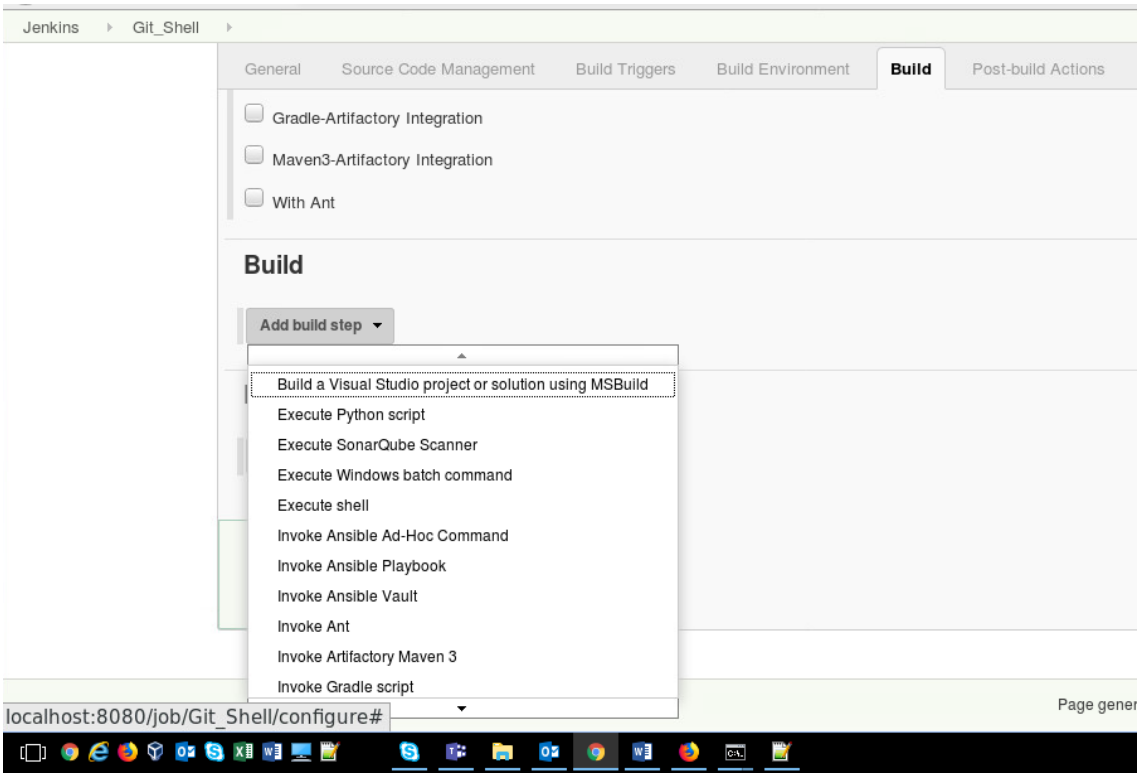
1. Create application (As explained in Lab1 – Welcome.java)

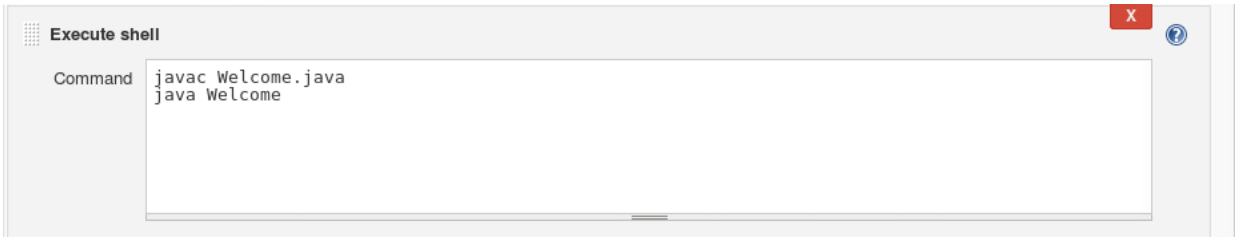


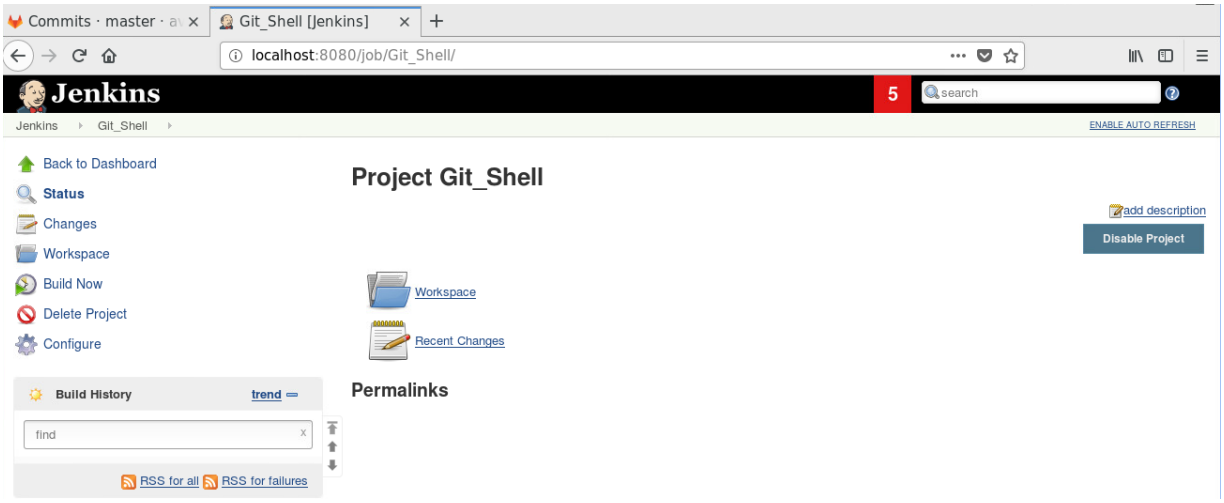
2. Configure Git Repository Path (Local repository path)



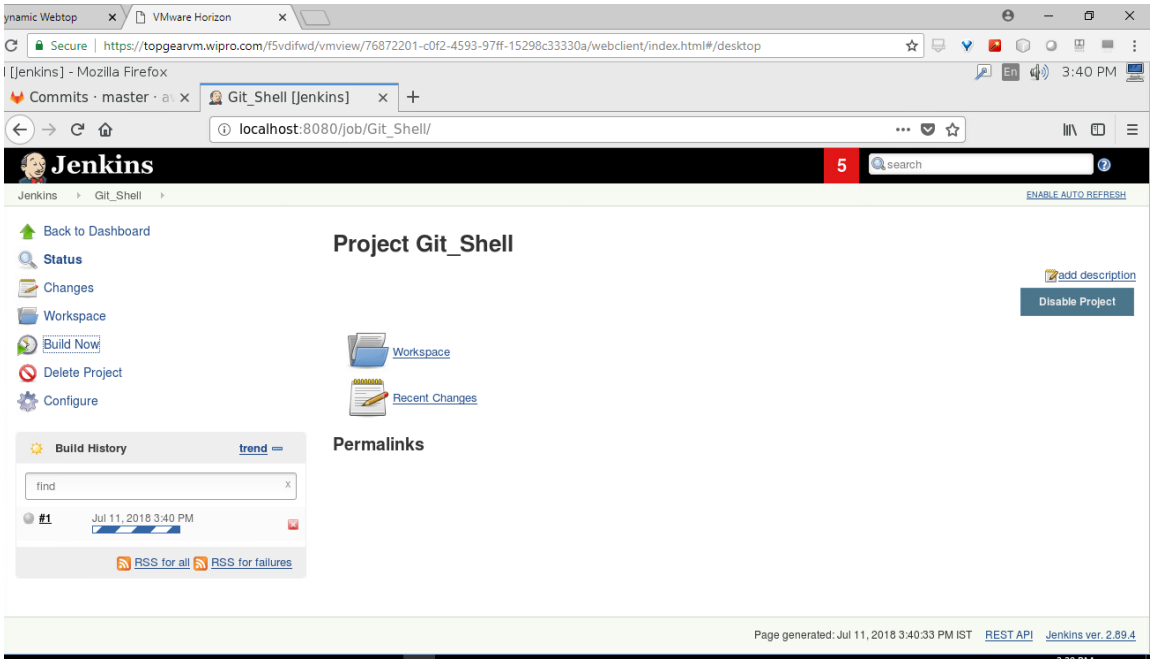
3. Configure Build – Execute Shell with commands – Apply and Save

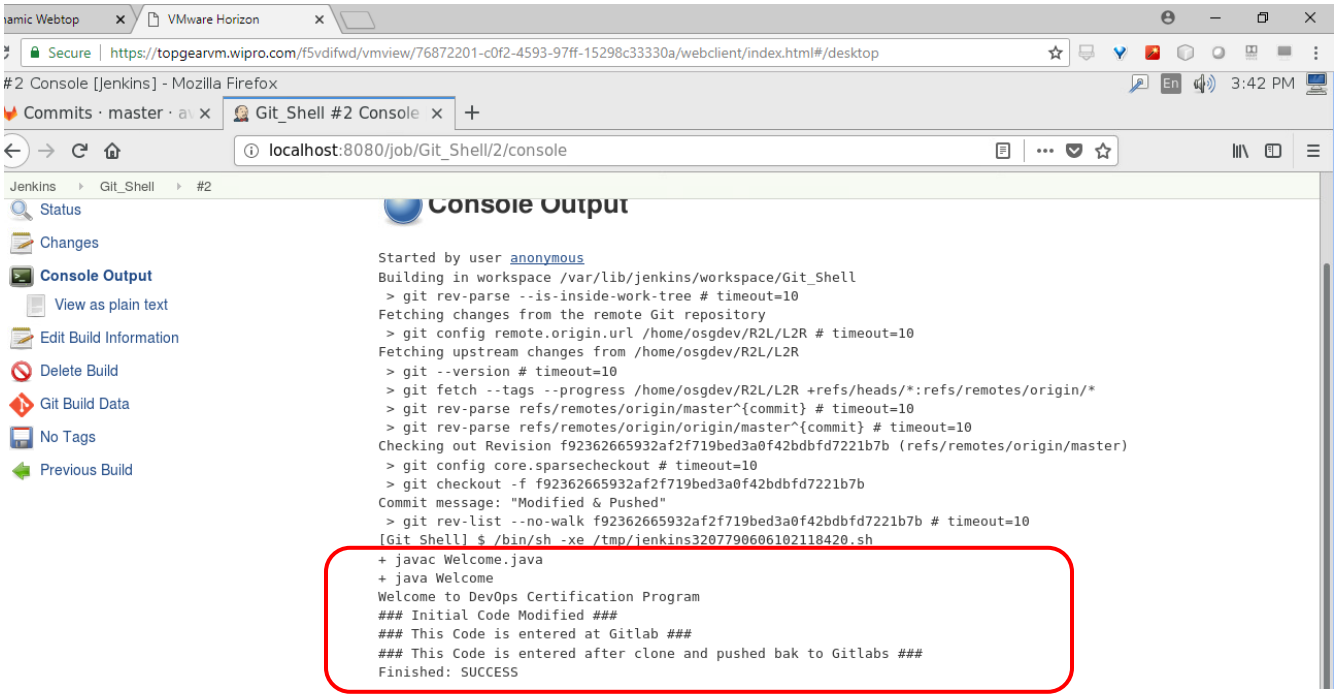


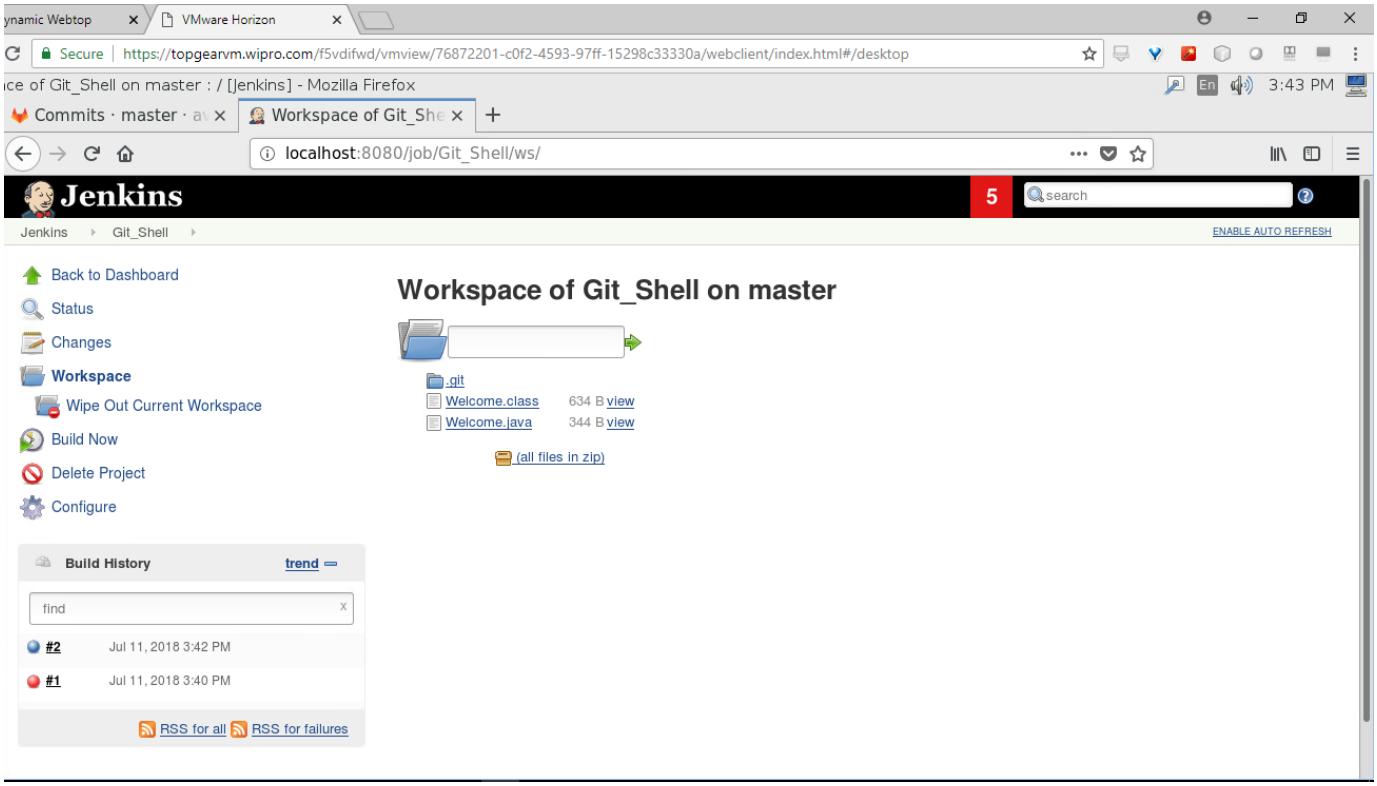




4. Select Build Now to initiate the process – View Console Output & Workspace







Note:

- Change SCM configuration to access central repository URL (Gitlab) and observe execution
- Configure more than on Repository and construct build command accordingly to observe execution

Tips:

- Compile & Run java program (With package)
  - javac <package>/<FileName>.java
  - java -classpath "FolderPath" <package.FileName>

- Create jar file and execute it
  - create Jar=> jar -cvf <JarName>.jar < FileName>.class
  - execute jar=> java -cp <JarName>.jar <MainClassName>