Architect Academy Talent Transformation

# DEVOPS PROFESSIONAL CERTIFICATION PROGRAM

## Lab -3: Getting Started with Jenkins

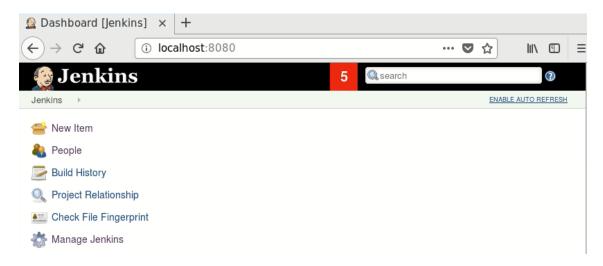
- > Start Jenkins Service & Setup basic tools
- ➤ Manage Jenkins Plugins, Proxy Setting & Tool Configurations (Java & Git)
- Create Jenkins Job (Freestyle)
  - o Integrate SCM (Git/Gitlab)
  - o Perform build process using shell commands
  - o Explore configure one or more Repositories/branches



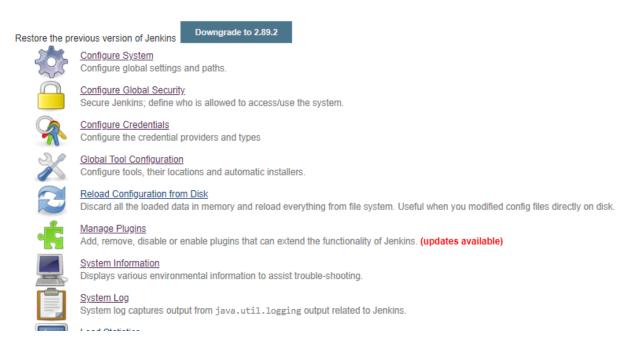
#### 1. Start Jenkins Service & Setup basic tools

osgdev@TG-DevOps-OS004:~\$ service jenkins status 
â-U jenkins.service - LSB: Start Jenkins at boot time 
Loaded: loaded (/etc/init.d/jenkins; bad; vendor preset: enabled) 
Active: active (exited) since Thu 2018-03-29 13:21:06 IST; 2 weeks 6 days ago 
Docs: man:systemd-sysv-generator(8) 
Process: 1665 ExecStart=/etc/init.d/jenkins start (code=exited, status=0/SUCCE 
Tasks: 0 
Memory: 0B 
CPU: 0

You can access Jenkins on the browser using the URL: http://localhost:8080/



#### 2. Manage Jenkins – Plugins, Proxy Setting & Tool Configurations (Java & Git)



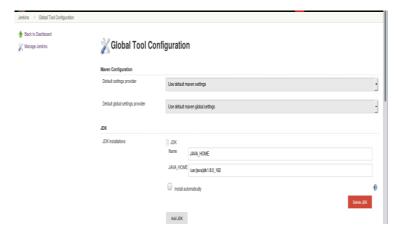
## ✓ Manage Plugins (Updates | installed | Available | Advanced)

- Select required plugins and install
- Set proxy details (if required)



#### **✓** Global Tool Configuration

- o Configure Git, JDK, Maven, Sonar Server...
- 1. JDK Configuration



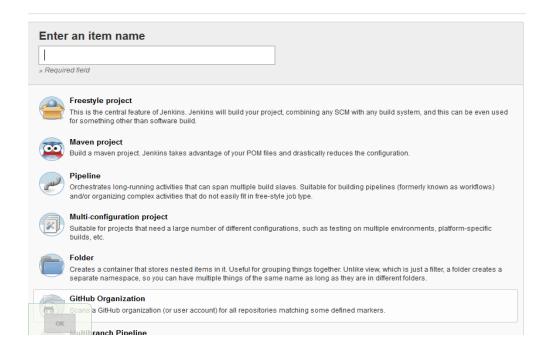
2. Git Configuration



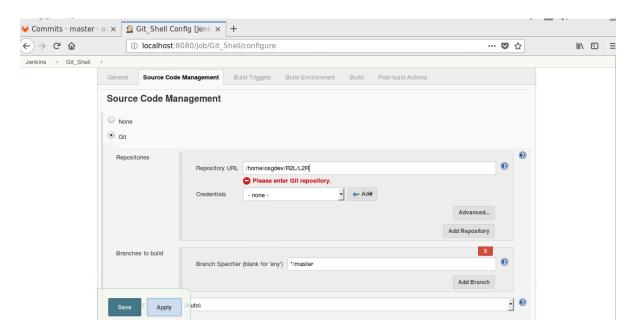
#### 3. Create Jenkins Job (Freestyle)

Once Jenkins is Up & Running

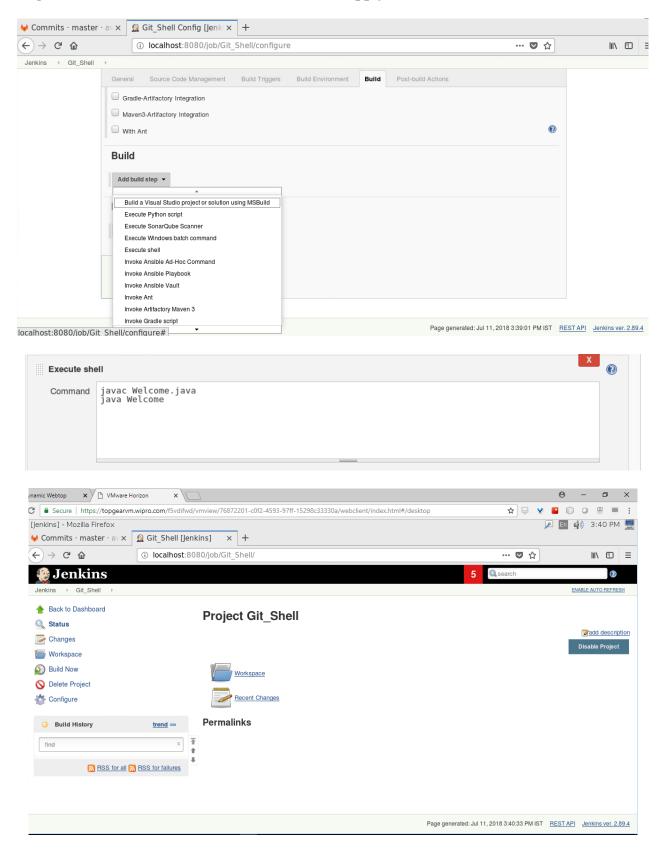
- ✓ Create Freestyle Jenkins Job
- ✓ Configure SCM (Git/Gitlab)
- ✓ Construct Build processing steps within "Build" section
  - o Construct shell commands to do build process (Java project)
- ✓ Run with "Build Now"
- ✓ Observe Build History and console output



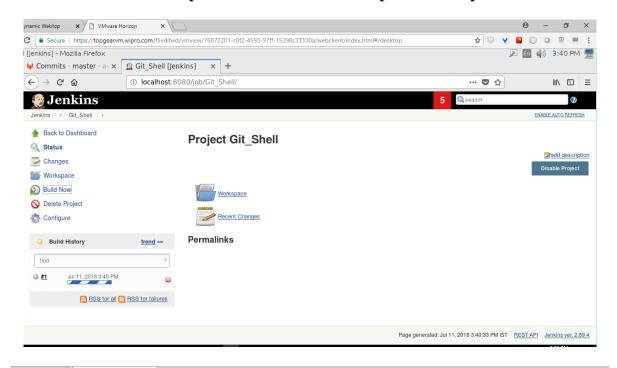
#### **Configure Git Repository Path**

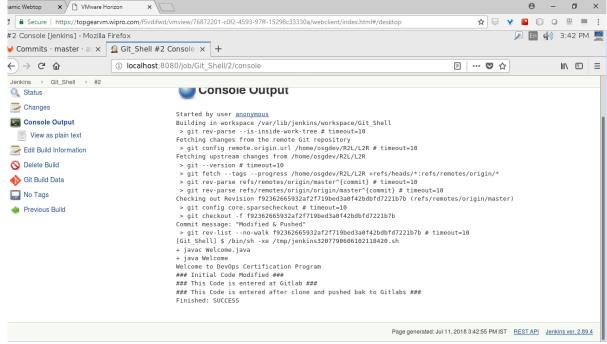


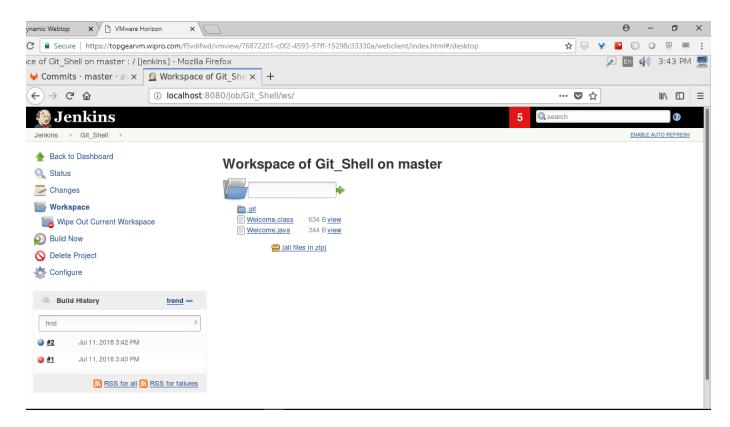
### Configure Build - Execute Shell with commands - Apply and Save



#### 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