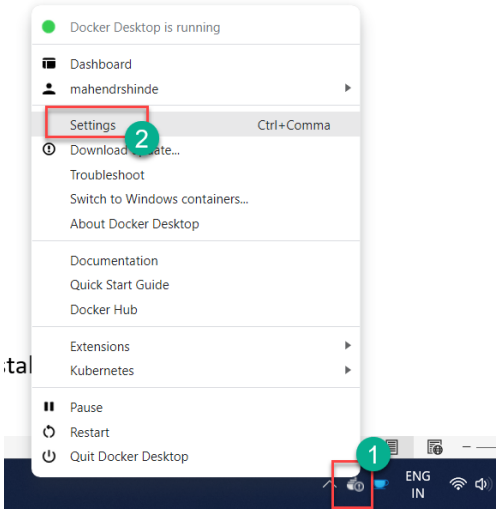
Jenkins with Docker Containers as Build Agents

Pre-requisites:

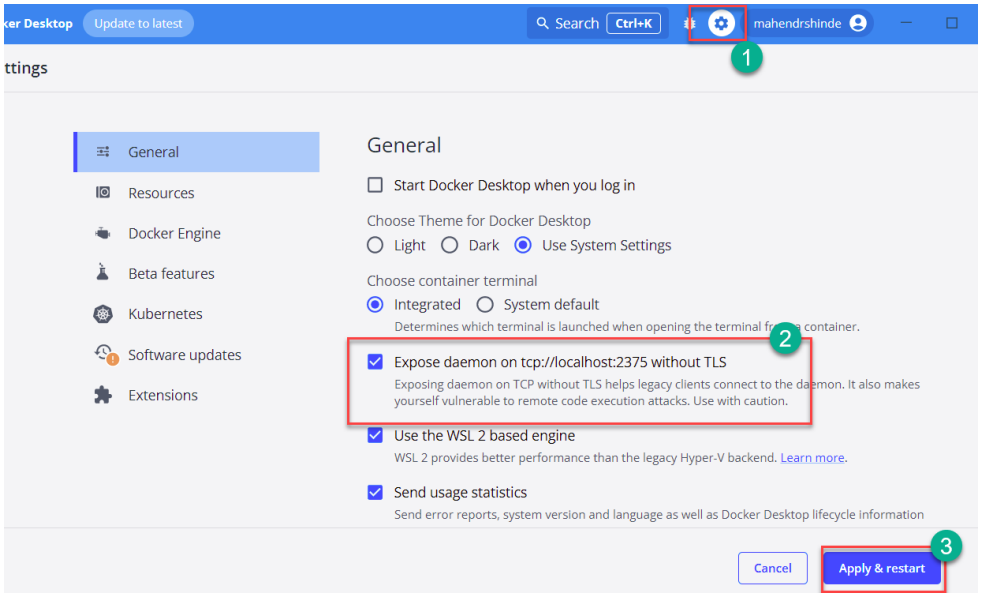
1. Docker Desktop
2. Jenkins CI

Part 1 : Configuration

1. Launch Docker Desktop Settings (Use Docker Icon in System Tray)
   Docker Desktop Must be installed on your System



2. Switch the feature “Expose Daemon on tcp://localhost:2375 without TLS”

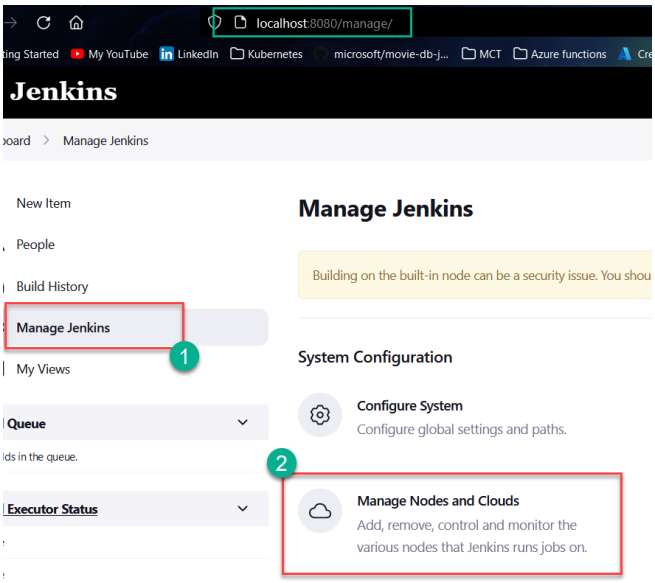


3. Click “Apply And Restart” button.
4. Launch Jenkins, from Manage Jenkins > Plugin Manager install following Plugins (Without Restart)

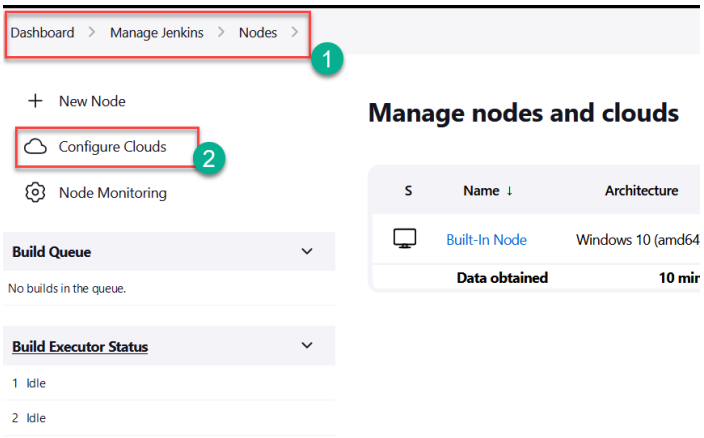
   a. Git

b. Docker Pipeline
c. Pipeline Plugin (Suite of plugins)

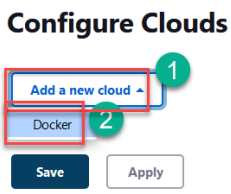
3. From “Manage Jenkins” click on “Manage Nodes and Clouds”



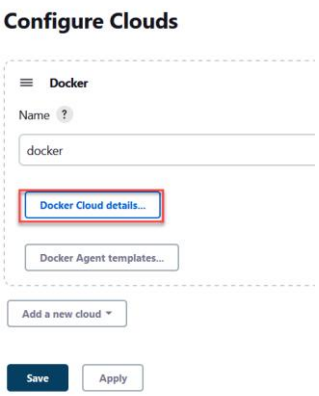
4. Then click on “ Configure Cloud” button.



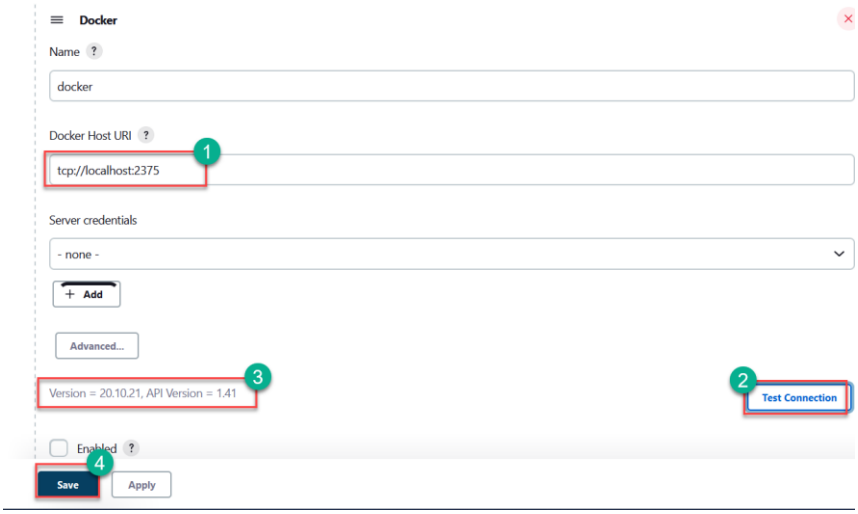
5. Click on “Add new cloud” drop-down and then choose “docker” (It should be only choice)



6. Click on “Cloud Details” button

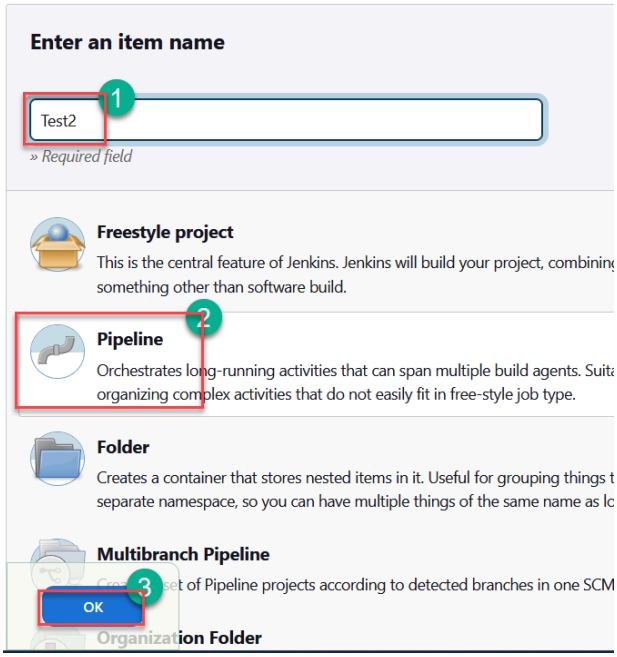


7. Now, Enter docker host URI which should be “tcp://localhost:2375” and then click “Test Connection” button, It should display docker API and Daemon version. Click “Save “

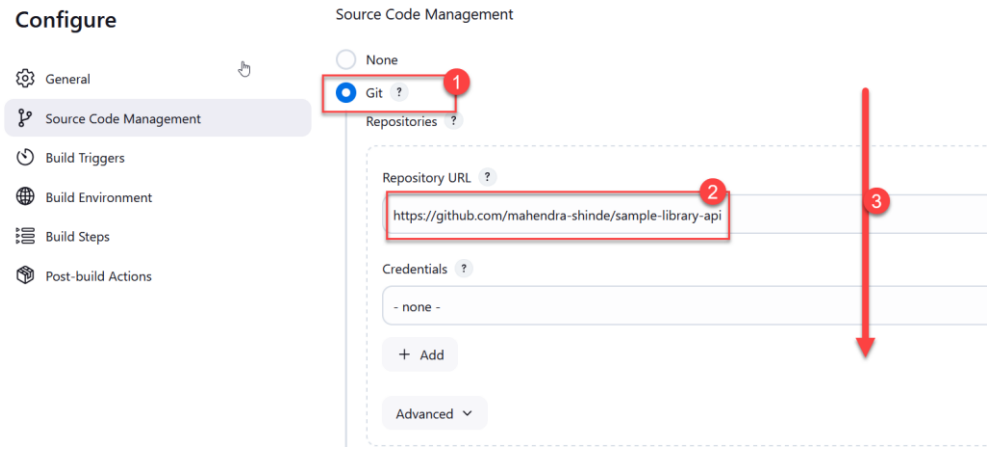


Part 2 : The Project

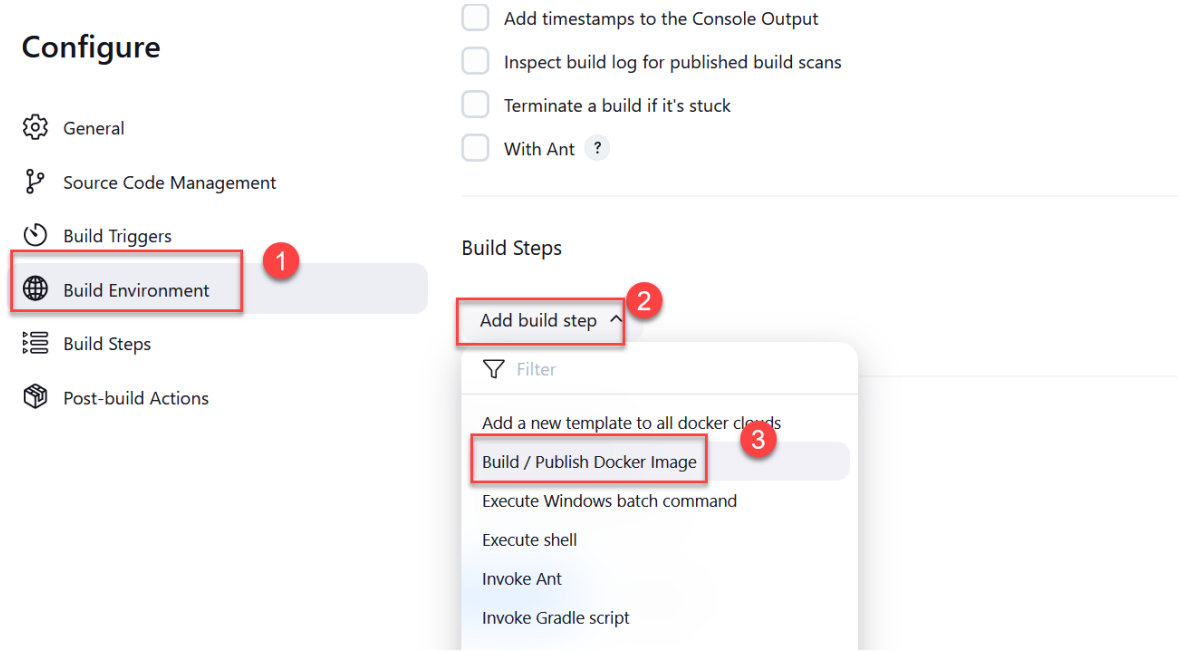
1. Create a new Project with Kind “Pipeline”



2. Set the Git Repository in “Source Code Management”



3. Now, add a new “Build Step” -> Build / Publish Docker Image



4. Choose “Docker” from dropdown and then enter new image name. Click Save to finish creating new job.