Module 6: Automated and Continuous Deployment

Demo Document - 4

edureka!

Demo: Horizontal scaling of jenkins

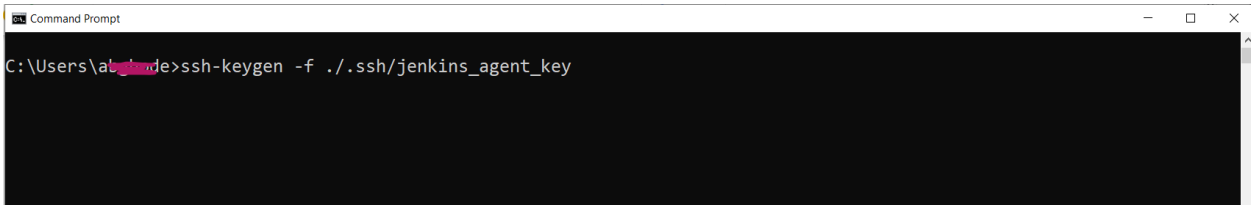
Problem statement: Execute commands to show horizontal scaling of Jenkins

Solution:

Step 1: Please ensure that you have GIT installed in your windows environment.

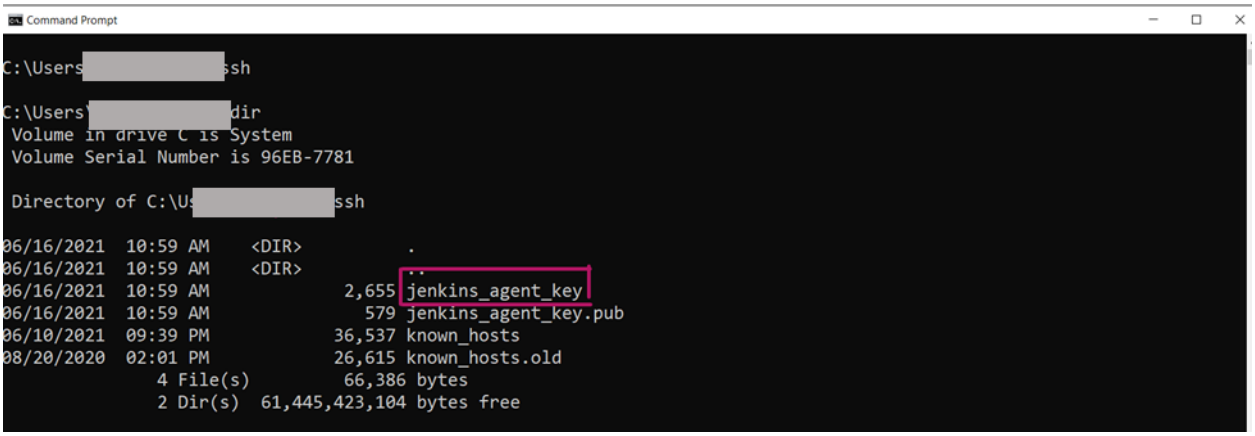
Command to run on cmd: ssh-keygen -f ./.ssh/jenkins_agent_key

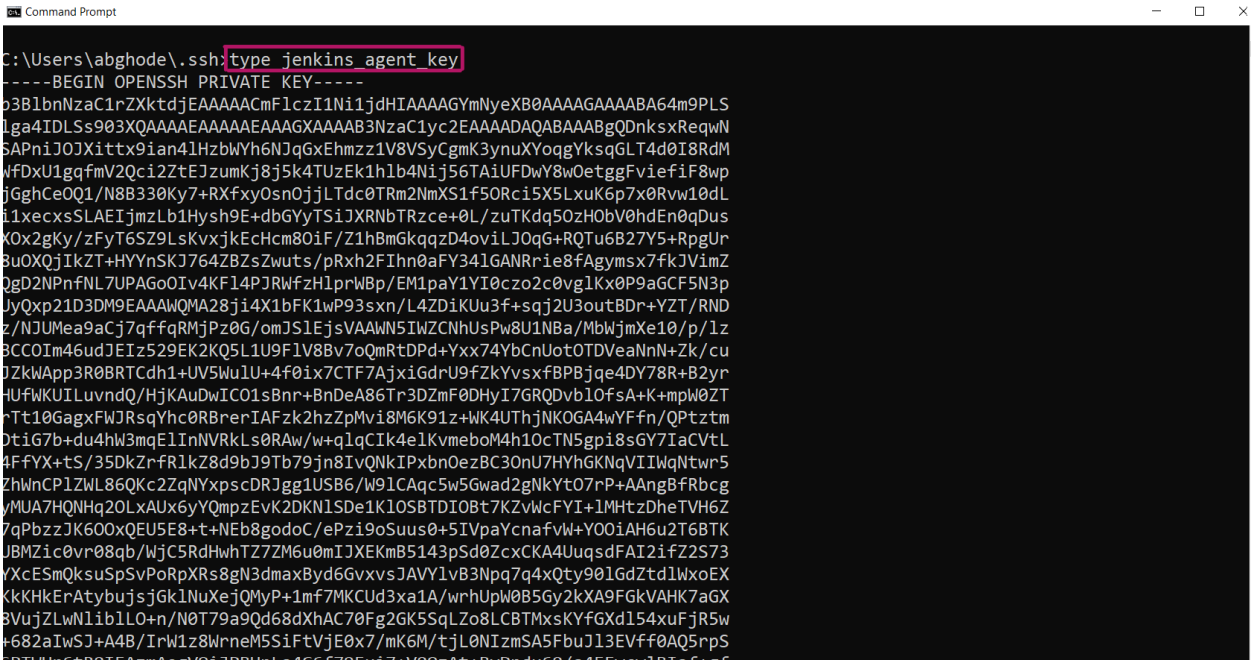
Please run the command in your user directory (c:\users\<user-name>)



Commands to run: cd .ssh

type jenkins_agent_key





Above set of commands will generate an SSH key pair. Please remember passphrase entered while generating the key pair. We will be using key pair and passphrase in Jenkins configuration.

Step 2: Enable PORT 22 for your windows workstation

Commands to run on cmd: cd "c:\Program Files\Git\etc\ssh"

notepad sshd_config

We need to edit /etc/ssh/sshd_config inside GIT installation directory and enter below line

Port 22.

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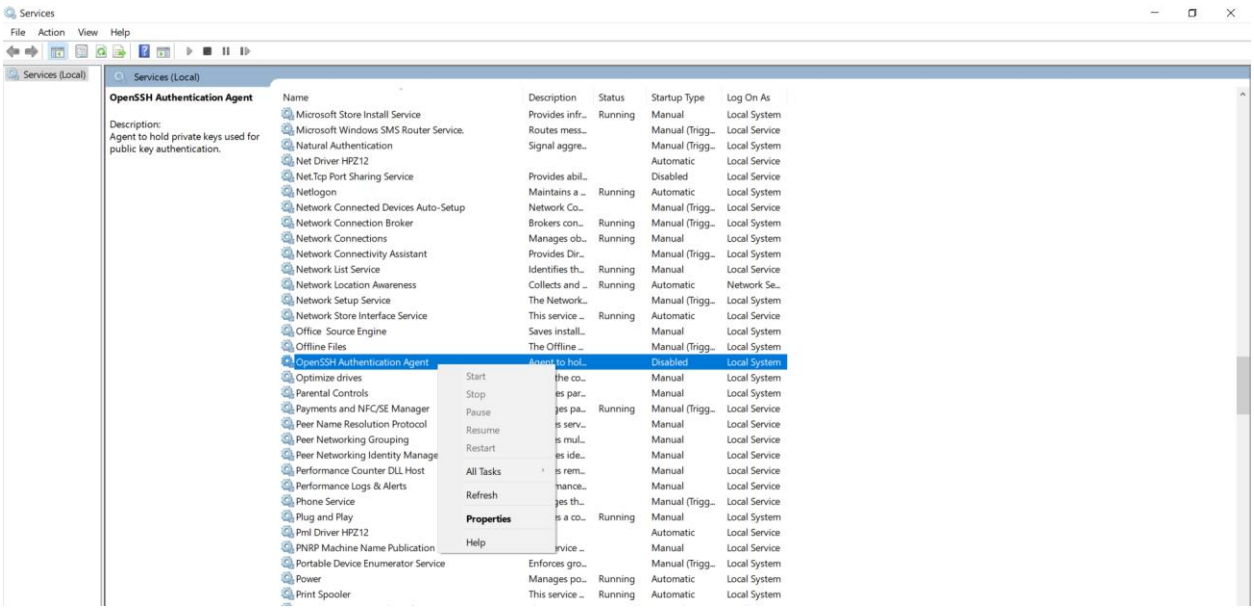
Step 3: Please use keyboard shortcut (Windows Key + R) and run services.msc.

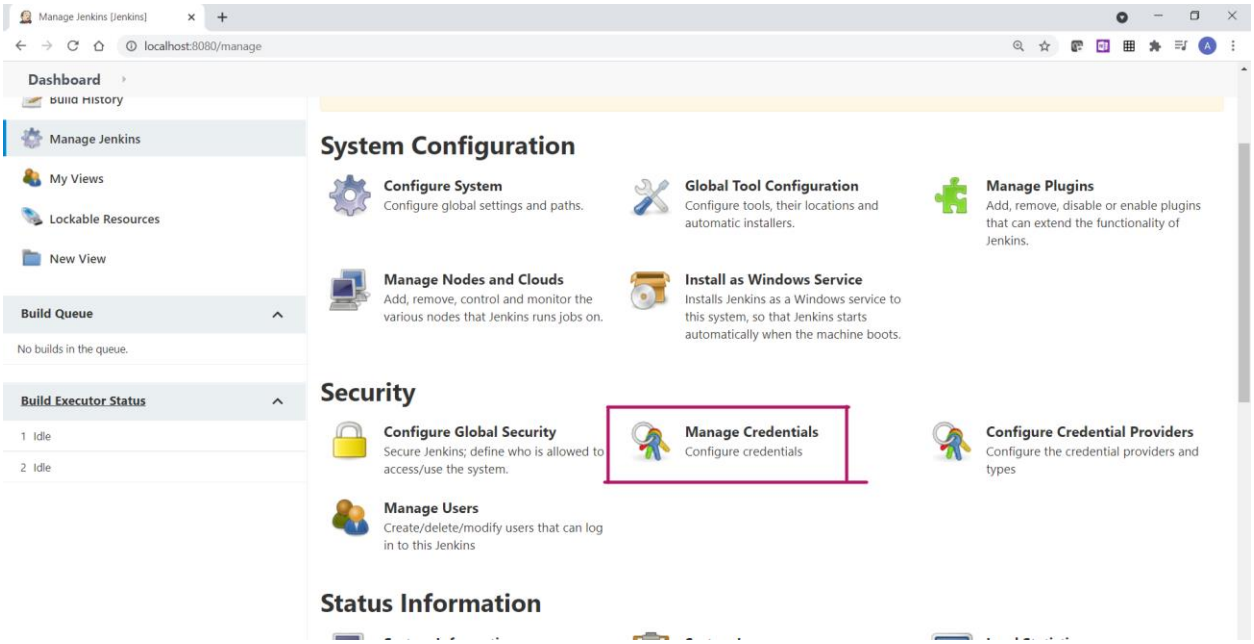
Please restart openssh service by right click and restart.



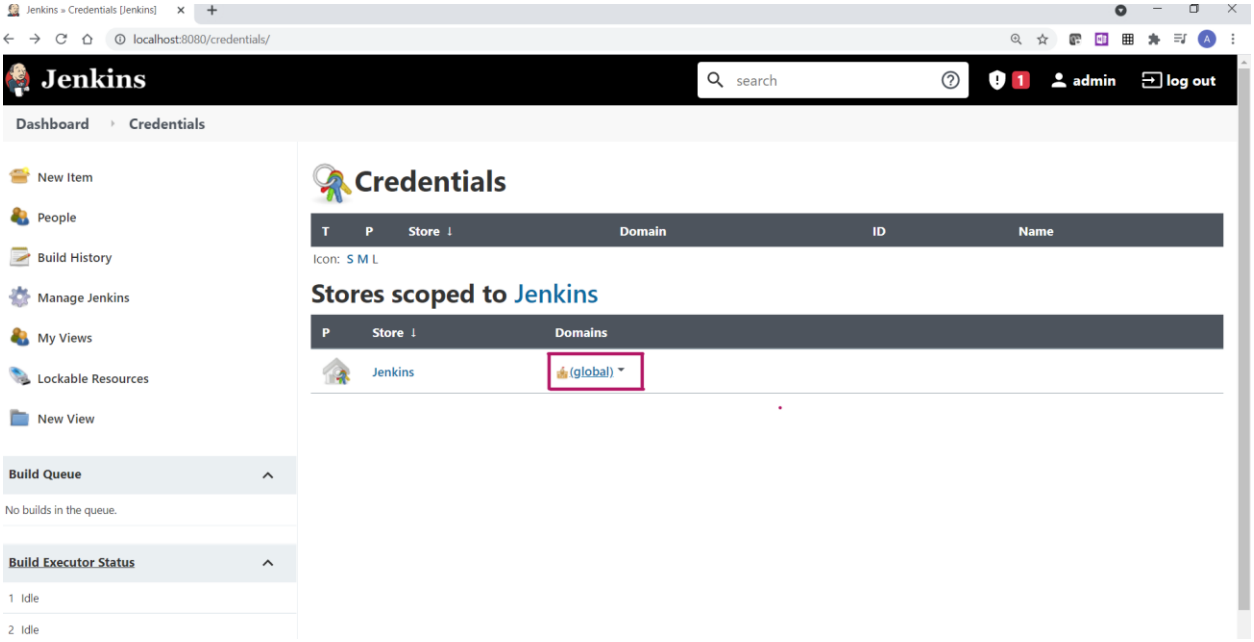
Step 4: Create Jenkins SSH credentials

URL to access: http://localhost:8080/manage

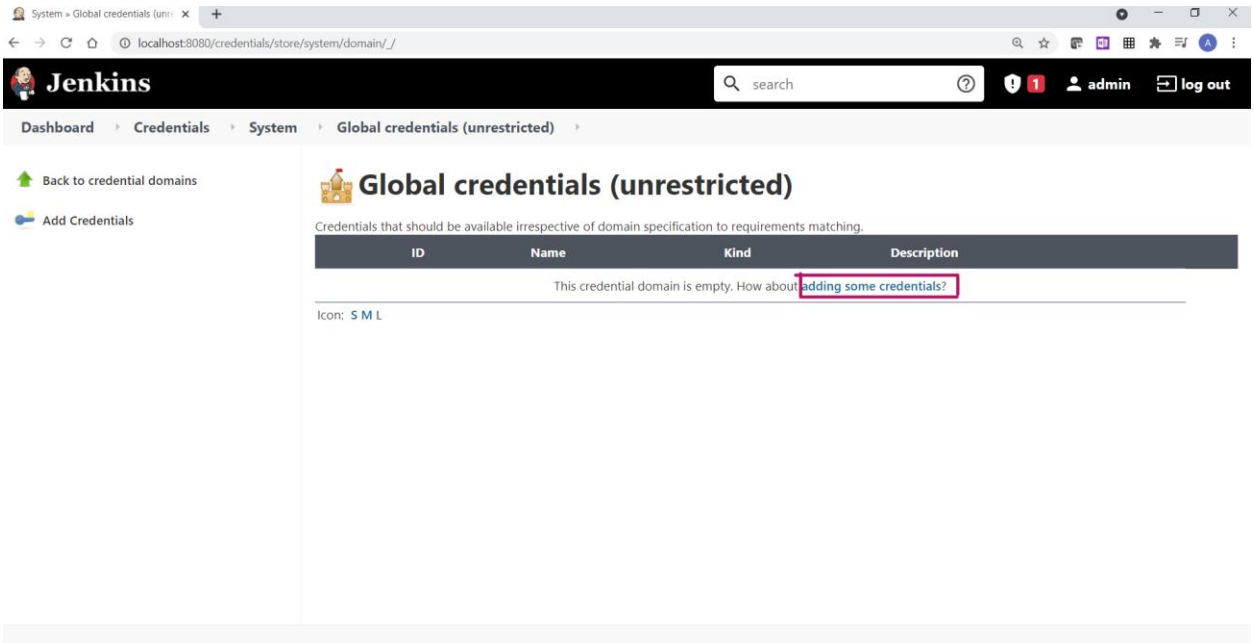
Click on ‘Manage credentials’



Click on ‘(global)’



Click on ‘Adding some credentials’



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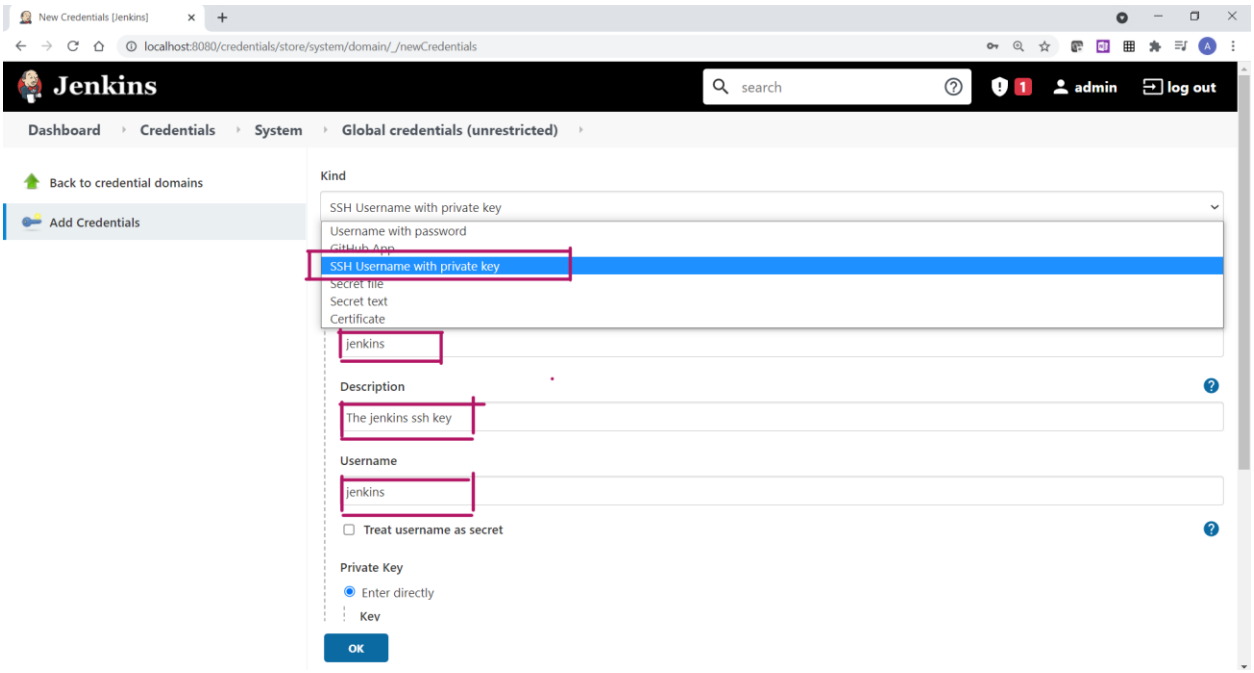
Step 5: Adding credentials from Global item

URL to access: http://localhost:8080/credentials/store/system/domain/_/newCredentials

This step is divided into 2 sub steps. Please also look at the next step to complete creation of new credentials.

Press add button in Private key section to insert your private key from c:\Users\<user-name>\.ssh



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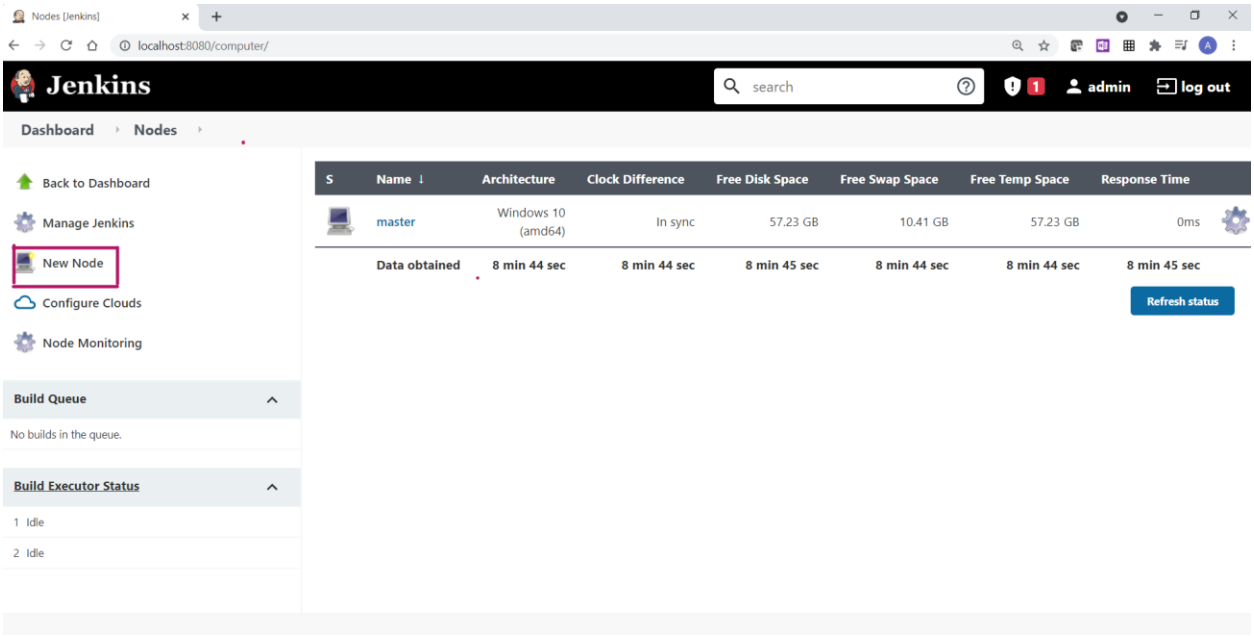
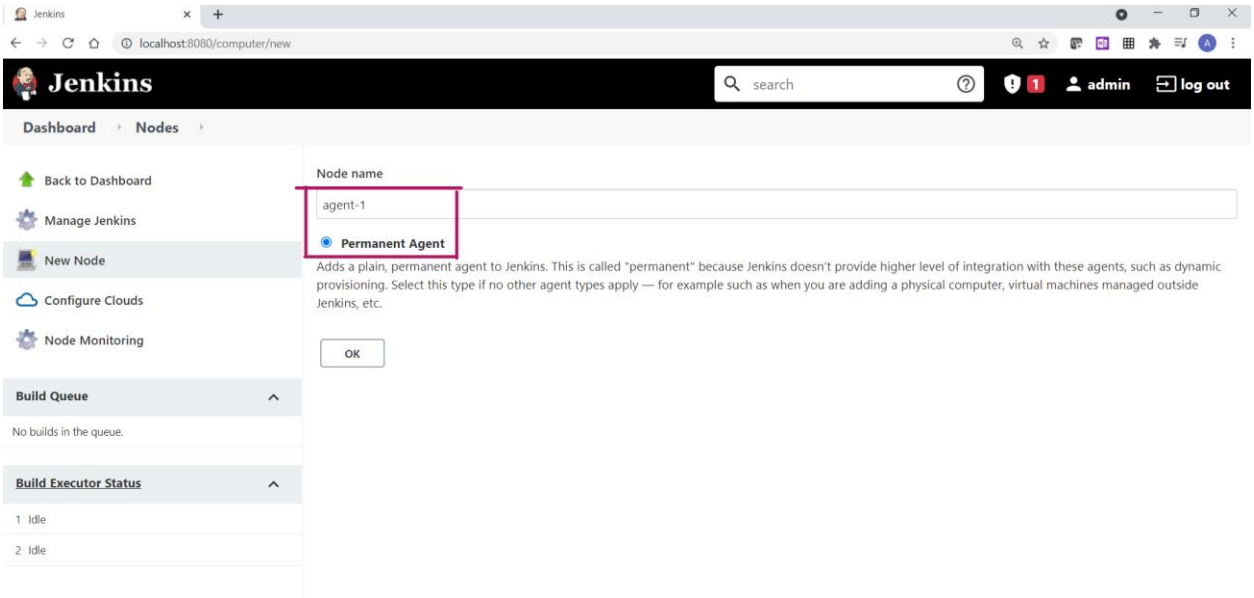
Step 6: Setting up an agent on Jenkins

URL to access: http://localhost:8080/computer/

Click on ‘New Node’





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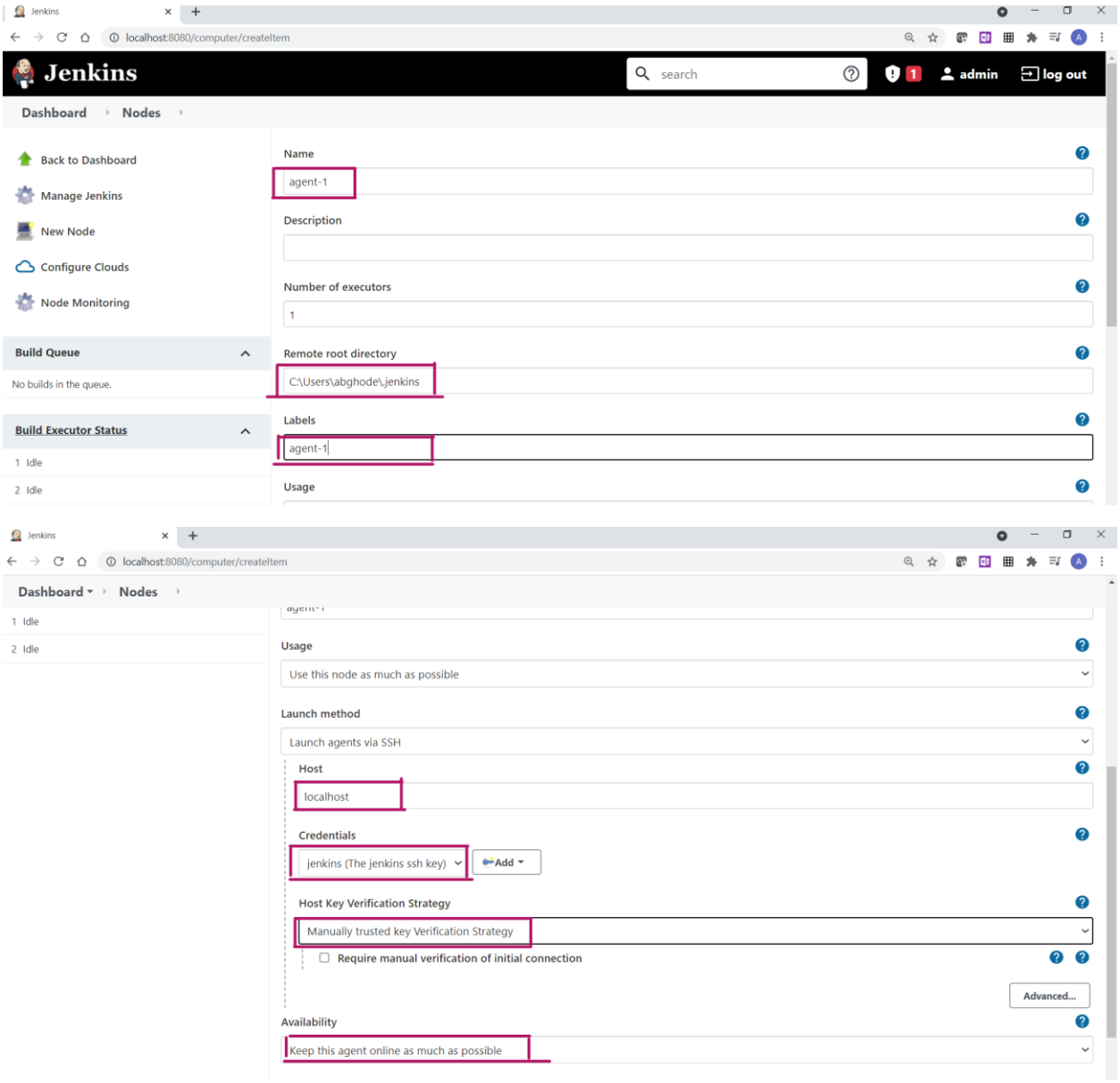
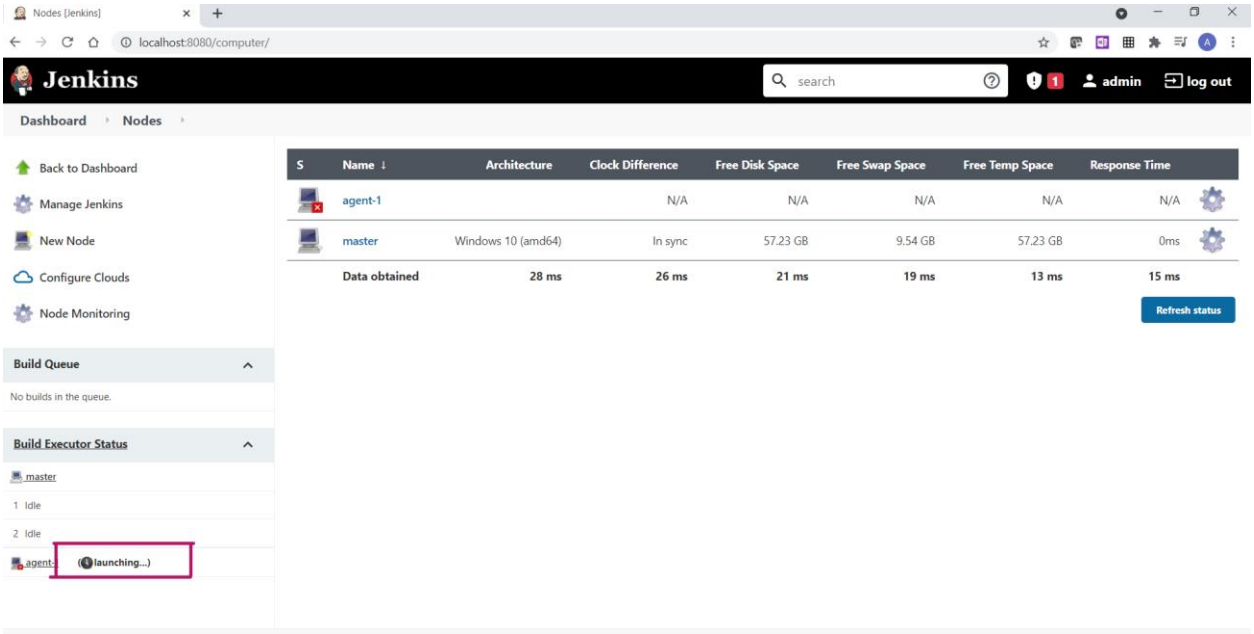
Please enter below details for adding a Jenkins agent

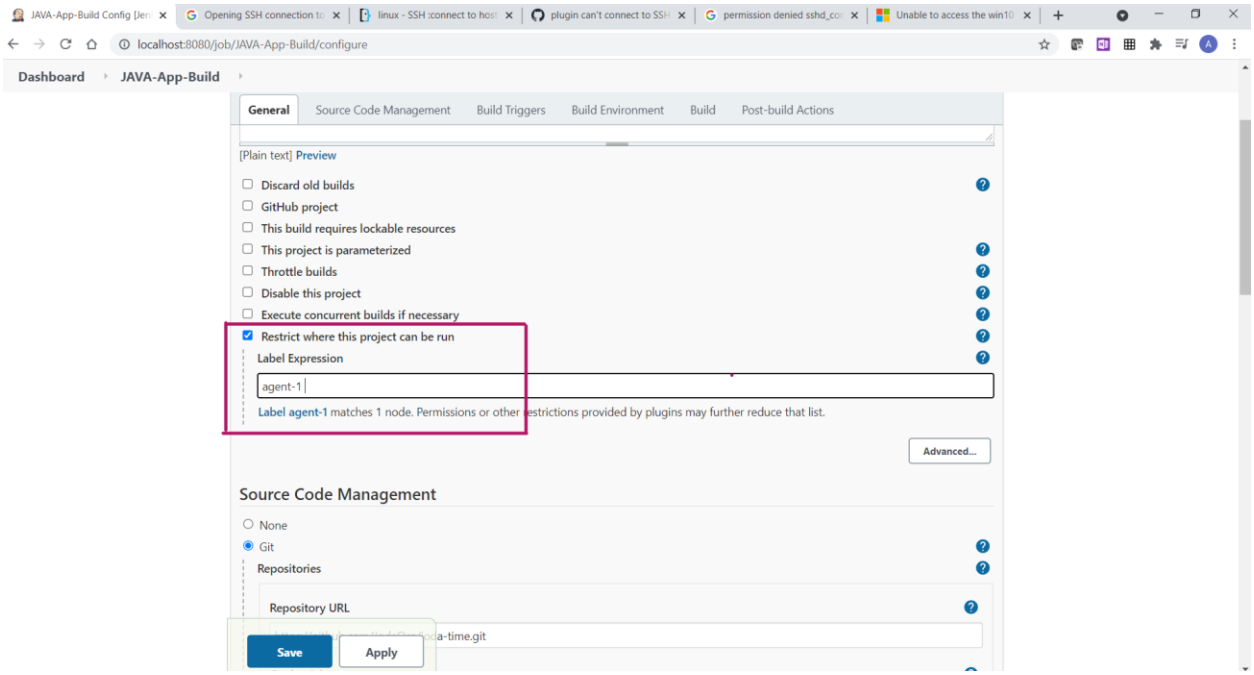




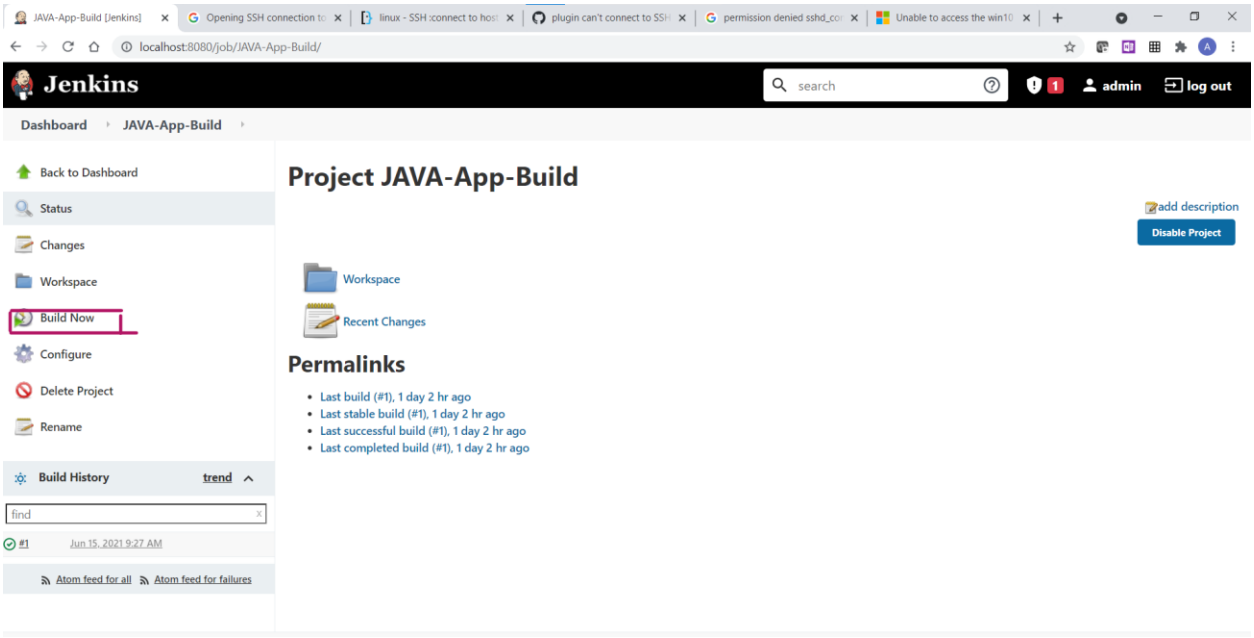
Step 7: Configure an existing freestyle project to build on Jenkins agent

URL to access: http://localhost:8080/job/JAVA-App-Build/configure

Please use ‘restrict where the project can be run’ checkbox and update ‘agent-1’ label.



Save and Click on “build now’



So now your new build will be executed on Jenkins agent. This build will not use master node.