



# **Experiment No. 3.2**

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Subject Name: CI/CD Pipelines Subject Code: 22CAP-781

## 1. Aim/Overview of the practical:

Create a build node and assign maven based job to that build node.

### 2. Code for practical:

- Open Jenkins on localhost.
- Click on Manage Jenkins > Credentials > System > Add
- Create a new Credentials using SSH
- Save ssh path to ~/.ssh/jenkins\_agent\_key
- Create SSH Key using command

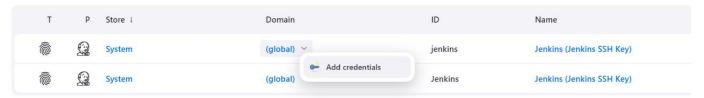
### ssh-keygen -f ~/.ssh/jenkins agent key

```
ish@Arkay MINGW64 ~
$ ssh-keygen -f ~/.ssh/jenkins_agent_key
Generating public/private rsa key pair.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/krish/.ssh/jenkins_agent_key
Your public key has been saved in /c/Users/krish/.ssh/jenkins_agent_key.pub
The key fingerprint is:
SHA256:Quhy6WEt3JymzNwL/8o0YTQ0TnXUiBsCpFsYKCsft8M krish@Arkay
The key's randomart image is:
   -[RSA 3072]--
   0 0 =. 0
   .=.B o.
  .o+0.X S
   .OEB o
    B.+
      = 0
      =0.
    -[SHA256]--
 rish@Arkay MINGW64 ~
```

- You can open it using nano ~/.ssh/Jenkins\_agent\_key
- Copy the certificate ad Go to Manage Jenkins > Credentials > System > Add credentials and paste certificate.







### Stores scoped to Jenkins

Run command

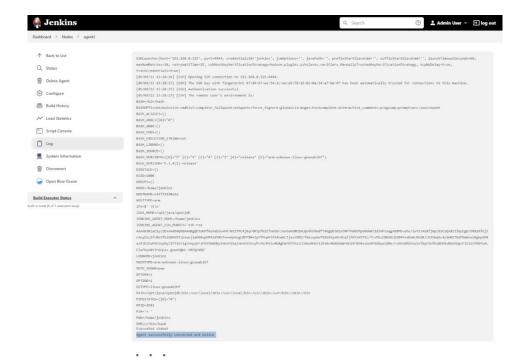
docker run -d --rm --name=agent1 --network jenkins -p 22:22 `

>> -e ''JENKINS\_AGENT\_SSH\_PUBKEY=[your-public-key]'' `

>> jenkins/ssh-agent:jdk17

```
PS C:\Users\krish> docker run -d --rm --name=agent1 --network jenkins -p 22:22 `
>> -e "JENKINS_AGENT_SSH_PUBKEY=[your-public-key]" `
>> jenkins/ssh-agent:jdk17
Unable to find image 'jenkins/ssh-agent:jdk17' locally
jdk17: Pulling from jenkins/ssh-agent
609c73876867: Pull complete
1e712917ca50: Pull complete
1b39dbb8d182: Pull complete
56926186b05c: Pull complete
4f4fb700ef54: Pull complete
b26656bb0999: Pull complete
61f05062a490: Pull complete
9c3aee06ddc7: Pull complete
Digest: sha256:c156e30a1a4e98d93ef045f03689375a160297112861907450c510be54f32fbd
```

- Click on Manage Jenkins > Nodes.
- Create a node and select Connect with SSH and select Jenkins SSH.







• After creating node, Create a job to node and click on Build.



• Build will be completed in few moments.