**Steps to follow**

**1.Installing Jenkins**

**2.Configuring ssh key**

**3.Adding ssh key to github**

**4.Adding ssh credentials to jenkis**

1. **Installing Jenkins**

| **Step** | **Command / Action** |
| --- | --- |
| **Install Jenkins (LTS)** | brew install jenkins-lts |
| **Start Jenkins Service** | brew services start jenkins-lts |
| **Check Running Services** | brew services list |
| **Access Jenkins** | http://localhost:8080 |
| **Get Admin Password** | cat ~/.jenkins/secrets/initialAdminPassword |
| **Install Plugins** | Git, Pipeline, Maven |
| **Add Git to Jenkins** | /usr/bin/git |
| **Add Maven to Jenkins** | /opt/homebrew/Cellar/maven/3.9.9/libexec |
| **Restart Jenkins** | brew services restart jenkins-lts |

**2/3/4**

| **Step** | **Command / Action** |
| --- | --- |
| **Check for existing SSH key** | ls -la ~/.ssh |
| **Generate a new SSH key** | ssh-keygen -t rsa -b 4096 -C "your-email@example.com" |
| **Add SSH key to agent** | eval "$(ssh-agent -s)" → ssh-add ~/.ssh/id\_rsa |
| **Copy SSH public key** | cat ~/.ssh/id\_rsa.pub |
| **Add key to GitHub** | **GitHub Settings → SSH Keys → Add New** |
| **Test SSH connection** | ssh -T git@github.com |
| **Add SSH credentials in Jenkins** | **Manage Jenkins → Manage Credentials → Add SSH Key** |
| **Use SSH in Jenkins Job** | **Change repo URL to git@github.com:your-repo.git** |