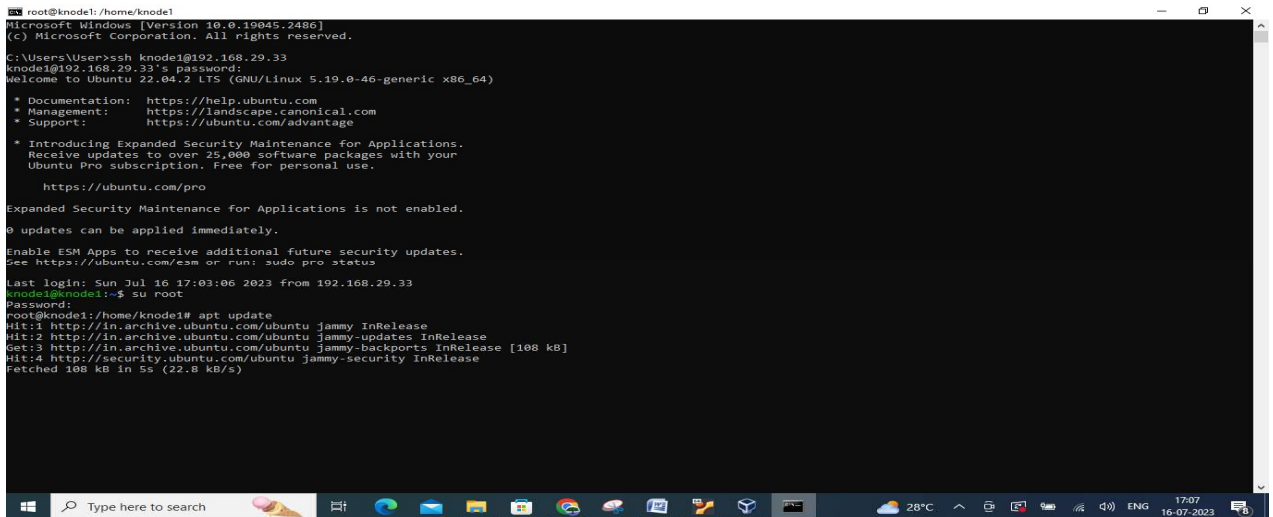


Assignment 4

Manual Cloning of the Sprint Pet Clinic Repo

1. Open a terminal or command prompt on your local machine.



```
root@knodel:/home/knodel
Microsoft Windows [Version 10.0.19045.2486]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User>ssh knodel@192.168.29.33
knodel@192.168.29.33's password:
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.19.0-46-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

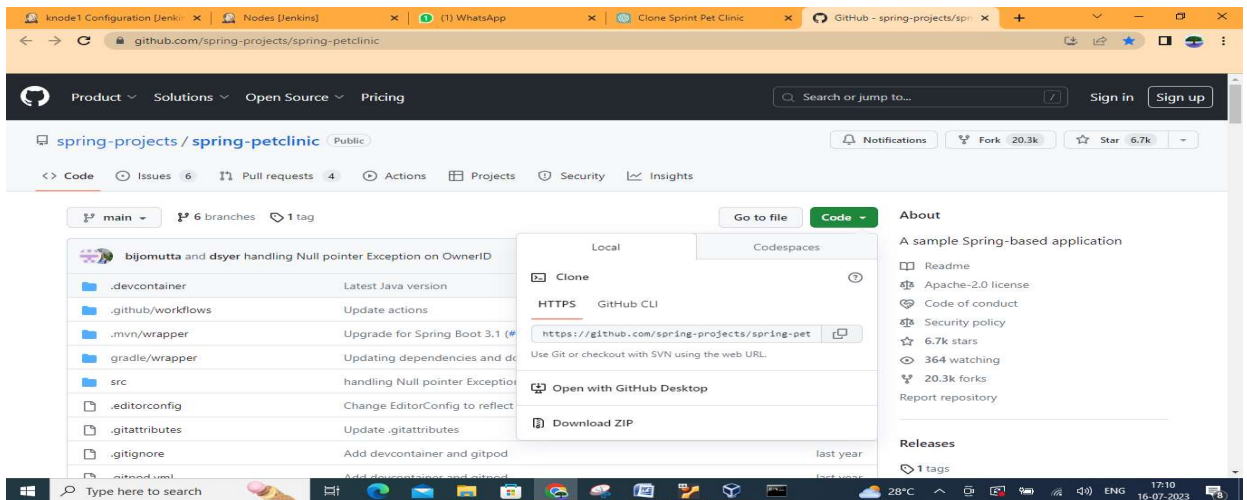
 * Introducing Expanded Security Maintenance for Applications.
   Receive updates to over 25,000 software packages with your
   Ubuntu Pro subscription. Free for personal use.
   https://ubuntu.com/pro

Expanded Security Maintenance for Applications is not enabled.
No updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Sun Jul 16 17:03:06 2023 from 192.168.29.33
knodel@knodel:~$ su root
Password:
root@knodel:~# apt update
Hit:1 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease
Get:3 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease [188 kB]
Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease
Fetched 108 kB in 5s (22.8 kB/s)
```

2. Navigate to the directory where you want to clone the repository.



3. Run the following command to clone the Sprint Pet Clinic repository from its remote URL:

git clone <https://github.com/spring-projects/spring-petclinic.git> .


```
root@knode1: /home/knode1/spring-petclinic
Setting up libmaven3-core-java (3.3.0-1) ...
Setting up maven (3.0.3-5) ...
update-alternatives: using /usr/share/maven/bin/mvn to provide /usr/bin/mvn (mvn) in auto mode
root@knode1: /home/knode1# whereis mvn
mvn: /usr/bin/mvn /usr/share/man/man1/mvn.1.gz
root@knode1: /home/knode1# ls -l
total 44
drwxr-xr-x 2 knode1 knode1 4096 Jul 16 13:34 Desktop
drwxr-xr-x 2 knode1 knode1 4096 Jul 16 13:34 Documents
drwxr-xr-x 2 knode1 knode1 4096 Jul 16 13:34 Downloads
drwxr-xr-x 2 knode1 knode1 4096 Jul 16 13:34 Music
drwxr-xr-x 2 knode1 knode1 4096 Jul 16 13:34 Pictures
drwxr-xr-x 2 knode1 knode1 4096 Jul 16 13:34 Public
drwxr-xr-x 3 knode1 knode1 4096 Jul 16 13:35 snap
drwxr-xr-x 8 root root 4096 Jul 16 17:27 spring-petclinic
drwxr-xr-x 2 knode1 knode1 4096 Jul 16 13:34 Templates
drwxr-xr-x 2 knode1 knode1 4096 Jul 16 13:34 Videos
root@knode1: /home/knode1# cd spring-petclinic
root@knode1: /home/knode1/spring-petclinic# ls -l
total 92
-rw-r--r-- 1 root root 1704 Jul 16 17:27 build.gradle
-rw-r--r-- 1 root root 559 Jul 16 17:27 docker-compose.yml
drwxr-xr-x 3 root root 4096 Jul 16 17:27 gradle
-rw-r-xr-x 1 root root 8188 Jul 16 17:27 gradlew
-rw-r-xr-x 1 root root 2838 Jul 16 17:27 gradlew.bat
-rw-r-xr-x 1 root root 11368 Jul 16 17:27 LICENSE.txt
-rw-r-xr-x 1 root root 11298 Jul 16 17:27 mvnw
-rw-r-xr-x 1 root root 7892 Jul 16 17:27 mvnw.cmd
-rw-r-xr-x 1 root root 15355 Jul 16 17:27 pom.xml
-rw-r-xr-x 1 root root 10299 Jul 16 17:27 readme.md
-rw-r-xr-x 1 root root 36 Jul 16 17:27 settings.gradle
drwxr-xr-x 5 root root 4096 Jul 16 17:27 src
root@knode1: /home/knode1/spring-petclinic#
```

4. Once the cloning process is complete, you will have a local copy of the Sprint Pet Clinic repository on your machine.

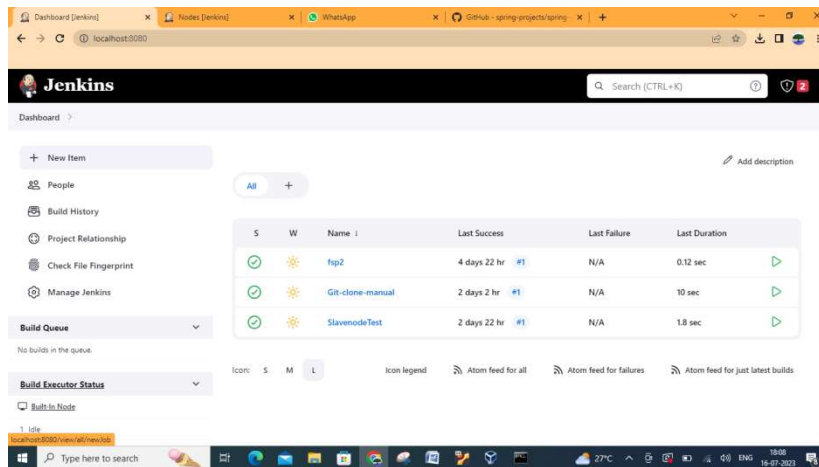
```
Select root@knode1: /home/knode1
root@knode1: /home/knode1# apt install maven
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libaopalliance-java libapache-pom-java libatinject-jsr330-api-java libcdi-api-java libcommons-cli-java libcommons-io-java libcommons-lang3-java
  libcommons-parent-java libgeronimo-annotation-1.3-spec-java libgeronimo-interceptor-3.0-spec-java libguava-java libguice-java libhawtjni-runtime-java libjansi-java
  libjansi-native-java libjsr305-java libmaven-parent-java libmaven-resolver-java libmaven-shared-utils-java libmaven3-core-java libplexus-cipher-java
  libplexus-classworlds-java libplexus-component-annotations-java libplexus-interpolation-java libplexus-sec-dispatcher-java libplexus-utils2-java libsisu-inject-java
  libsisu-plexus-java libslf4j-java libwagon-file-java libwagon-http-shaded-java libwagon-provider-api-java maven
Suggested packages:
  libaopalliance-java-doc libatinject-jsr330-api-java-doc libel-api-java libcommons-io-java-doc libcommons-lang3-java-doc libasm-java libcglib-java libjsr305-java-doc
  libmaven-shared-utils-java-doc liblogback-java libplexus-classworlds-java-doc libplexus-sec-dispatcher-java-doc libplexus-utils2-java-doc junit4 testing
The following NEW packages will be installed:
  libaopalliance-java libatinject-jsr330-api-java libcdi-api-java libcommons-cli-java libcommons-io-java libcommons-lang3-java
  libcommons-parent-java libgeronimo-annotation-1.3-spec-java libgeronimo-interceptor-3.0-spec-java libguava-java libguice-java libhawtjni-runtime-java libjansi-java
  libjansi-native-java libjsr305-java libmaven-parent-java libmaven-resolver-java libmaven-shared-utils-java libmaven3-core-java libplexus-cipher-java
  libplexus-classworlds-java libplexus-component-annotations-java libplexus-interpolation-java libplexus-sec-dispatcher-java libplexus-utils2-java libsisu-inject-java
  libsisu-plexus-java libslf4j-java libwagon-file-java libwagon-http-shaded-java libwagon-provider-api-java maven
0 upgraded, 33 newly installed, 0 to remove and 260 not upgraded.
Need to get 10.2 MB of archives.
After this operation, 11.3 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libapache-pom-java all 18-1 [4,720 B]
Get:2 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libatinject-jsr330-api-java all 1.0-4ds1-5 [5,348 B]
Get:3 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libgeronimo-interceptor-3.0-spec-java all 1.0-1-4fakesync [8,616 B]
Get:4 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libcdi-api-java all 1.2-3 [54.3 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libcommons-cli-java all 1.4-2 [55.8 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libcommons-parent-java all 43-1 [10.8 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libcommons-io-java all 2.11.0-2 [297 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libcommons-lang3-java all 3.11-1 [526 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libgeronimo-annotation-1.3-spec-java all 1.3-1 [11.2 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libjsr305-java all 0.1~svn49-11 [27.0 kB]
Get:11 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libguava-java all 29.0-6 [2,418 kB]
Get:12 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libaopalliance-java all 20070526-6 [9,084 B]
Get:13 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libguice-java all 4.2.3-2 [1,434 kB]
Get:14 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libhawtjni-runtime-java all 1.17-1 [28.8 kB]
Get:15 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libjansi-native-java all 1.8-1 [23.8 kB]
Get:16 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libjansi-java all 1.18-1 [56.8 kB]
Get:17 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libmaven-parent-java all 31-2 [5,140 B]
Get:18 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libplexus-utils2-java all 3.3.0-1 [250 kB]
Get:19 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libwagon-provider-api-java all 3.3.4-1 [48.5 kB]
Get:20 http://in.archive.ubuntu.com/ubuntu jammy/universe amd64 libmaven-resolver-java all 1.4.2-3build1 [555 kB]
```

apt install maven

Setting up Jenkins Job to Clone the Repo:

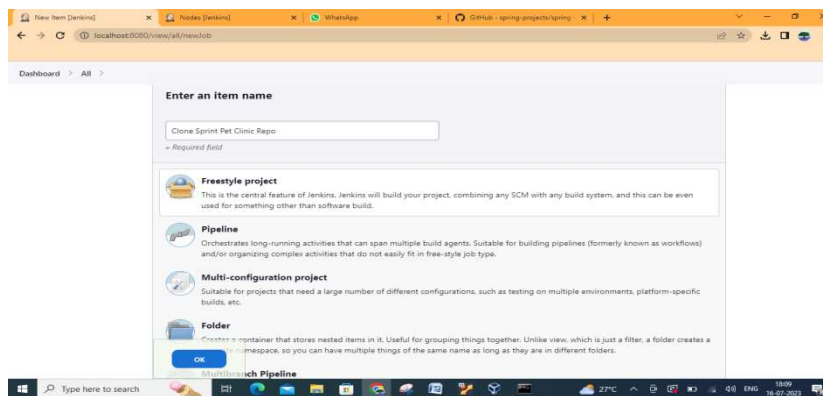
Now, let's automate the cloning process using Jenkins. Make sure you have Jenkins installed and running on your system before proceeding.

1. Open your Jenkins dashboard in a web browser and log in.



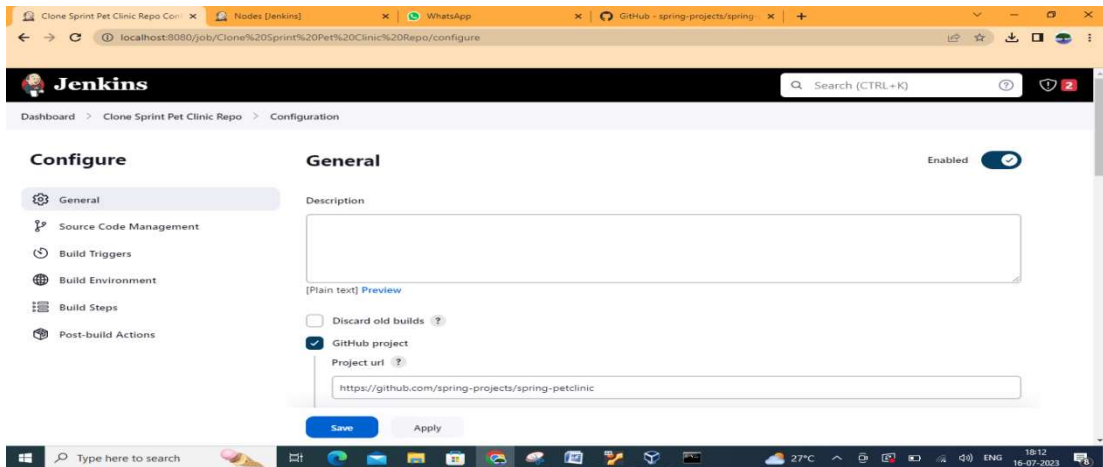
2. Create a new Jenkins job:

- Click on "New Item" on the left-hand side.
- Enter a name for your job (e.g., "Clone Sprint Pet Clinic Repo").
- Choose the "Freestyle project" option and click "OK."

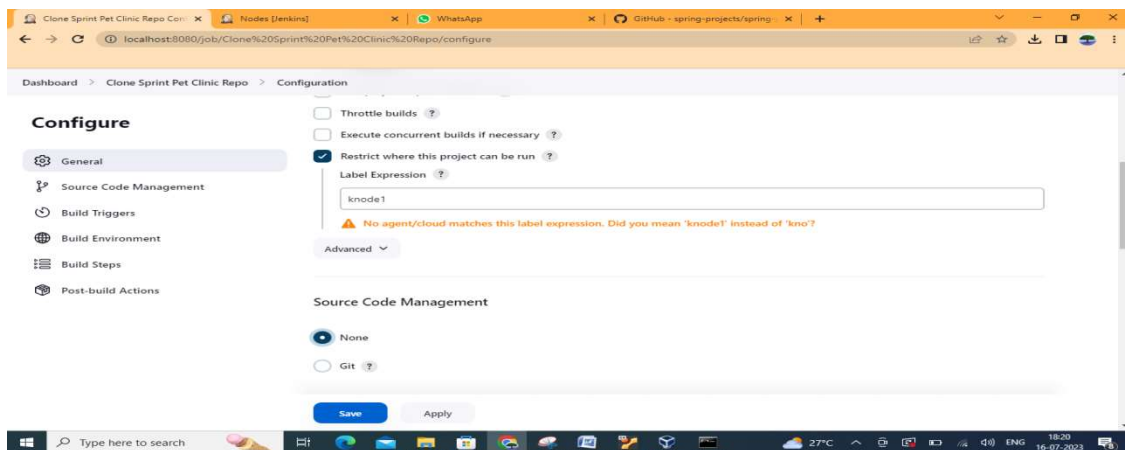


3. Configure the Jenkins job:

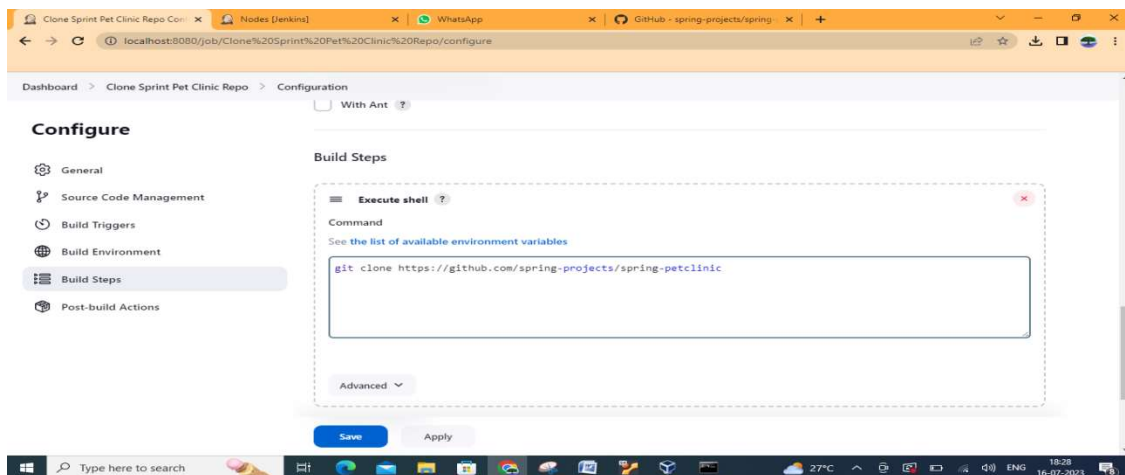
- Under the "General" section, check the option "GitHub project" and enter the URL of the Sprint Pet Clinic repository (<https://github.com/spring-projects/spring-petclinic>).



- Specify where the project should run: master or slave node (.e.g., knode1)



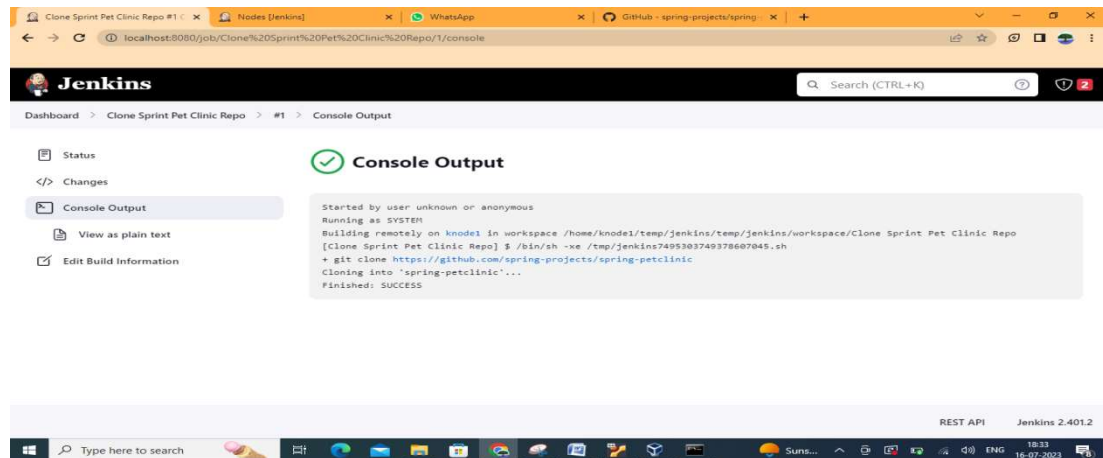
- In build steps menu select execute shell (linux vm) paste the petclinic link .



4. Save the Jenkins job configuration.

5. Build the Jenkins job:

- On the Jenkins dashboard, click on your newly created job.
- Click on "Build Now" to trigger the first build.



Jenkins will now automatically clone the Sprint Pet Clinic repository into its workspace every time the job is built.

Remember that this setup assumes that you have the necessary permissions to access the Sprint Pet Clinic repository. If the repository is private, you'll need to configure Jenkins with appropriate credentials to access it. Also, ensure that Jenkins is properly configured and can access the internet if it needs to reach the repository's remote URL.

That's it! You've now manually cloned the Sprint Pet Clinic repository.