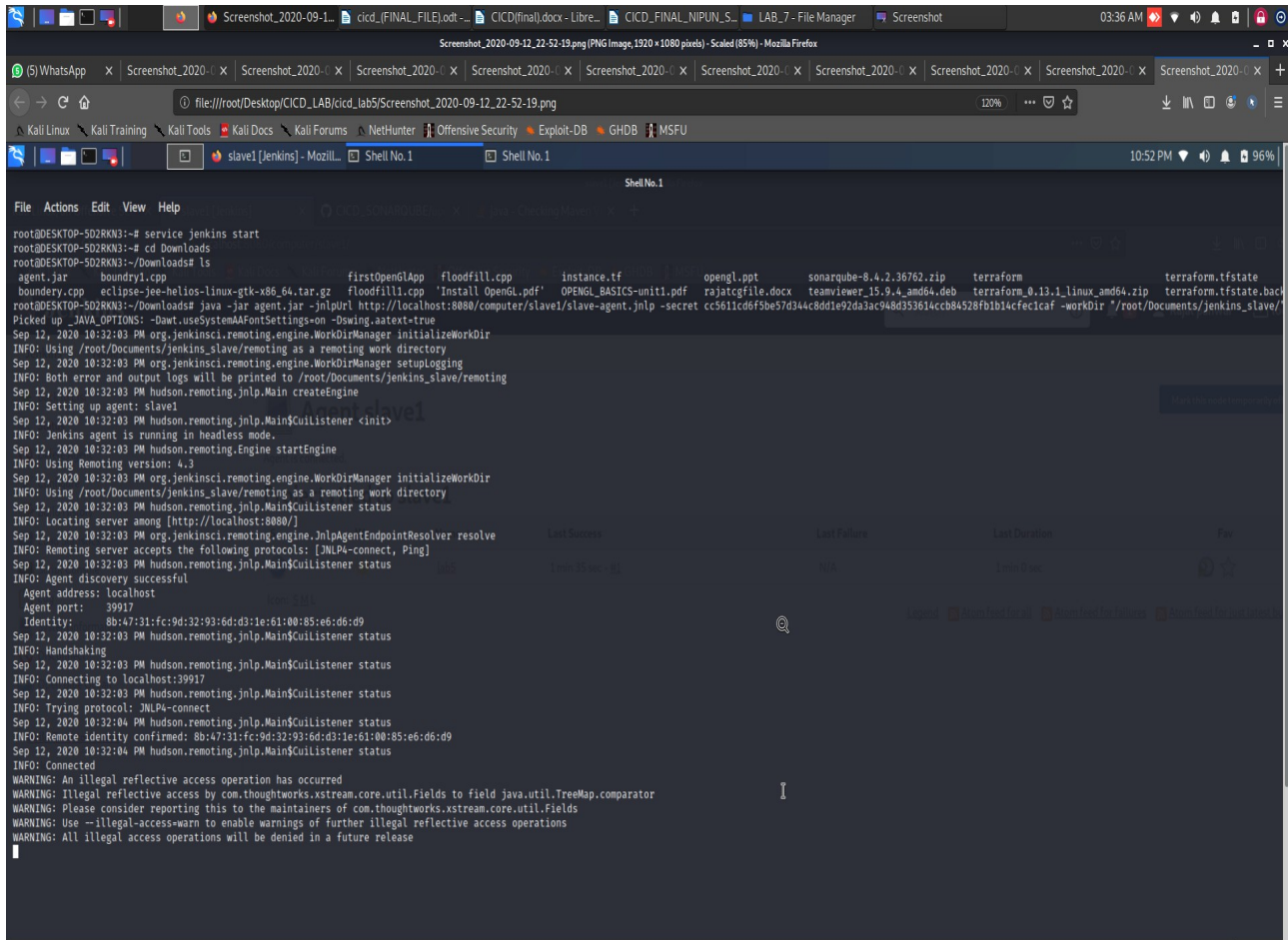


RAJAT PANWAR  
ROLL NO- R171218080  
SAP ID- 500069414

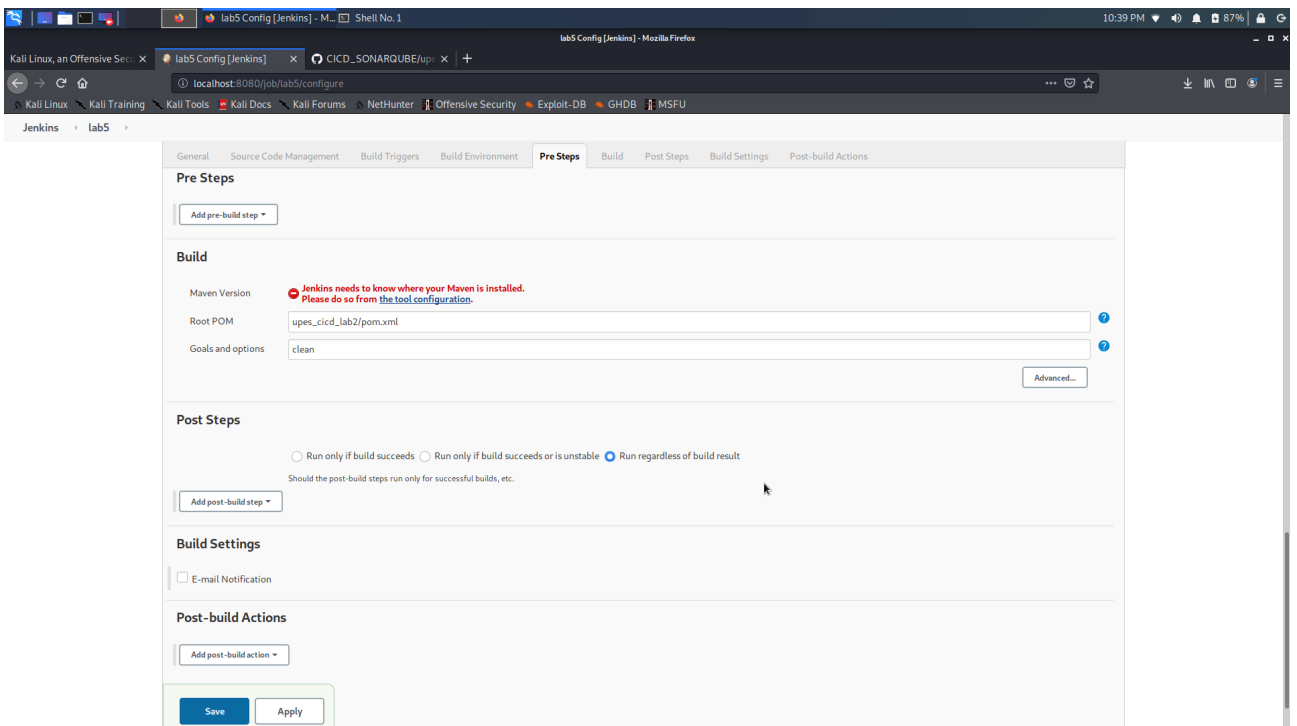
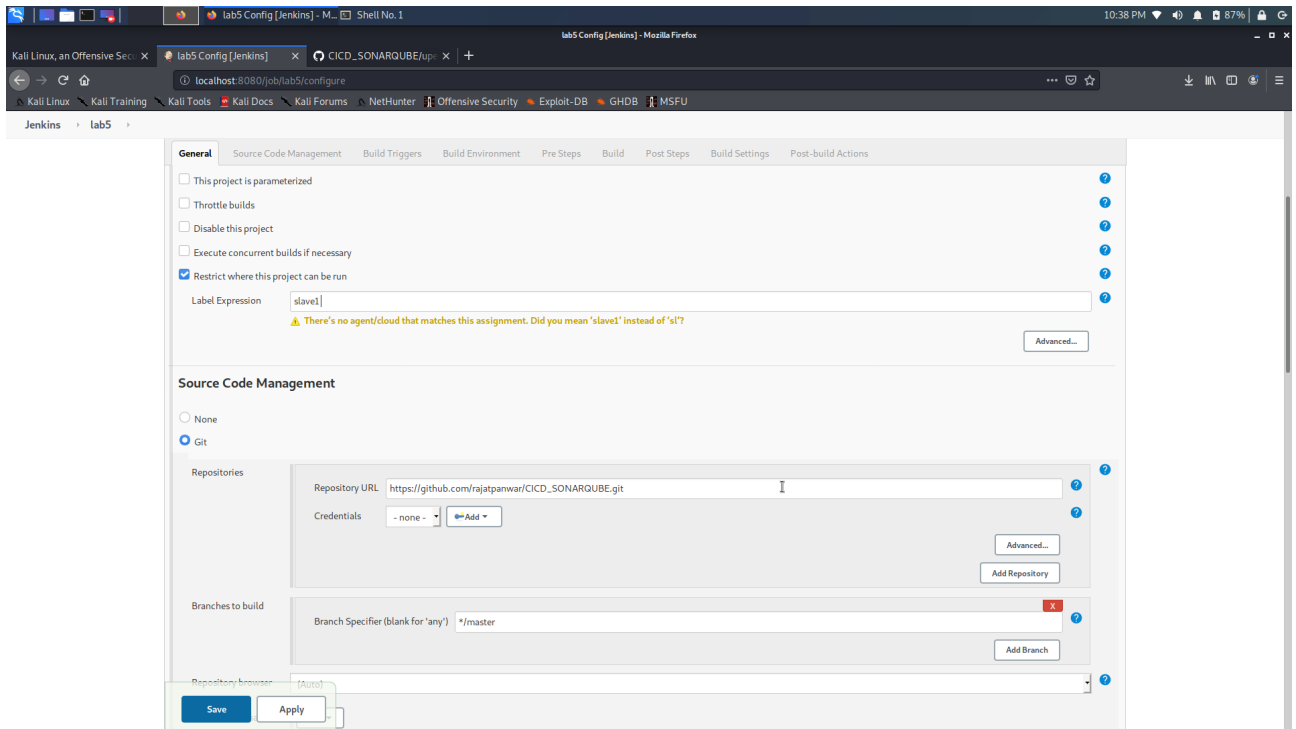
## EXPERIMENT-8

**AIM:-**Implementation Master/Slave Architecture in jenkins



The screenshot shows a terminal window titled "slave1 [Jenkins] - Mozilla" with a shell prompt. The terminal displays the output of the command `service jenkins start` and subsequent log messages from the Jenkins master. The logs indicate that the Jenkins agent is running in headless mode and that the master is attempting to connect to the slave. The slave's IP address is 10.10.10.10 and its port is 39917. The logs also show the slave's identity and the master's response to the slave's connection attempt.

```
root@DESKTOP-502RKN3:~# service jenkins start
root@DESKTOP-502RKN3:~# cd Downloads
root@DESKTOP-502RKN3:~/Downloads# ls
agent.jar  boundary1.cpp  firstOpenGlApp  floodfill.cpp  instance.tf  opengl.ppt  sonarqube-8.4.2.36762.zip  terraform  terraform.tfstate
boundary.cpp  eclipse-jee-helios-linux-gtk-x86_64.tar.gz  floodfill1.cpp  'Install OpenGL.pdf'  'OPENGL-BASICS-unit1.pdf'  rajatcgfile.docx  teamviewer_15.9.4_and64.deb  terraform_0.13.1_linux_amd64.zip  terraform.tfstate.back
root@DESKTOP-502RKN3:~/Downloads# java -jar agent.jar -jnlpUrl http://localhost:8080/computer/slave/slave-agent.jnlp -secret cc5611cd6f5be57d344c8dd1e9d3ac948d33614ccb84528fb1b14cfec1caf -workDir "/root/Documents/jenkins_slave/"
Picked up _JAVA_OPTIONS: -Dawt.useSystemAAFontSettings=on -Dswing.aatext=true
Sep 12, 2020 10:32:03 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /root/Documents/jenkins_slave/remoting as a remoting work directory
Sep 12, 2020 10:32:03 PM org.jenkinsci.remoting.engine.WorkDirManager setupLogging
INFO: Both error and output logs will be printed to /root/Documents/jenkins_slave/remoting
Sep 12, 2020 10:32:03 PM hudson.remoting.jnlp.Main createEngine
INFO: Setting up agent: slave1
Sep 12, 2020 10:32:03 PM hudson.remoting.jnlp.Main$CuiListener cinit
INFO: Jenkins agent is running in headless mode.
Sep 12, 2020 10:32:03 PM hudson.remoting.Engine startEngine
INFO: Using Remoting version: 4.3
Sep 12, 2020 10:32:03 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /root/Documents/jenkins_slave/remoting as a remoting work directory
Sep 12, 2020 10:32:03 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Locating server among [http://localhost:8080/]
Sep 12, 2020 10:32:03 PM org.jenkinsci.remoting.engine.JnlpAgentEndpointResolver resolve
INFO: Remoting server accepts the following protocols: [JNLP-connect, Ping]
Sep 12, 2020 10:32:03 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Agent discovery successful
Agent address: localhost
Agent port: 39917
Identity: 8b:47:31:fc:9d:32:93:6d:d3:1e:61:00:05:e6:d6:d9
Sep 12, 2020 10:32:03 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Handshaking
Sep 12, 2020 10:32:03 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connecting to localhost:39917
Sep 12, 2020 10:32:03 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Trying protocol: JNLP-connect
Sep 12, 2020 10:32:04 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Remote identity confirmed: 8b:47:31:fc:9d:32:93:6d:d3:1e:61:00:05:e6:d6:d9
Sep 12, 2020 10:32:04 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connected
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.thoughtworks.xstream.core.util.Fields to field java.util.TreeMap.comparator
WARNING: Please consider reporting this to the maintainers of com.thoughtworks.xstream.core.util.Fields
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
```



Back to Dashboard

Manage Jenkins

New Node

Configure Clouds

Node Monitoring

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

Name

slave1

Description

# of executors

1

Remote root directory

/root/Documents/jenkins\_slave/

Labels

Usage

Use this node as much as possible

Launch method

Launch agent by connecting it to the master

Disable WorkDir

Custom WorkDir path

/root/Documents/jenkins\_slave/

Internal data directory

remoting

Fail if workspace is missing

Use WebSocket

Availability

Keep this agent online as much as possible

Node Properties

Disable deferred wipeout on this node

Environment variables

Tool Locations

Save

Advanced...

Page generated:  
Sep 12, 2020, 10:24:37 PM IST

REST API

Jenkins 2.235.5

Back to Dashboard

Manage Jenkins

New Node

Configure Clouds

Node Monitoring

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

Node name

slave1

Permanent Agent

Adds a plain, permanent agent to Jenkins. This is called "permanent" because Jenkins doesn't provide higher level of integration with these agents, such as dynamic provisioning. Select this type if no other agent types apply — for example such as when you are adding a physical computer, virtual machines managed outside Jenkins, etc.

OK

Page generated:  
Sep 12, 2020, 10:24:07 PM IST

REST API

Jenkins 2.235.5

Configure Global Security [Jenkins] - Mozilla Firefox

localhost:8080/configureSecurity/

Kali Linux, an Offensive Security... Configure Global Security

☐ Matrix-based security

☐ Project-based Matrix Authorization Strategy

**Markup Formatter**

Markup Formatter: Plain text

Treats all input as plain text. HTML unsafe characters like < and & are escaped to their respective character entities.

**Agents**

TCP port for inbound agents: ☐ Fixed:  ☒ Random ☐ Disable

[Agent protocols...](#)

**CSRF Protection**

Crumb issuer: Default Crumb Issuer

☐ Enable proxy compatibility

**Hidden security warnings**

[Security warnings...](#)

**API Token**

☐ Generate a legacy API token for each newly created user (Not recommended)

☐ Allow users to manually create a legacy API token (Not recommended)

☒ Enable API Token usage statistics

**Agent + Master Security**

☒ Enable Agent + Master Access Control

[Rules can be tweaked here](#)

**SSH Server**

SSH Port: ☐ Fixed:  ☐ Random ☒ Disable

[Save](#) [Apply](#)

slave1 [Jenkins] - Mozilla Firefox

localhost:8080/computer/slave1/

Jenkins

search

Rajat panwar log out

Jenkins > Nodes > slave1

[Back to List](#)

[Status](#)

[Delete Agent](#)

[Configure](#)

[Build History](#)

[Load Statistics](#)

[Script Console](#)

[Log](#)

[System Information](#)

[Disconnect](#)

[Open Blue Ocean](#)

**Agent slave1**

Agent is connected.

**Projects tied to slave1**

None

[Mark this node temporarily offline](#)

**Build Executor Status**

1 Idle

