1. Download and Install Universal Forwarder (Linux):

wget -O splunkforwarder.tgz 'https://download.splunk.com/...'

tar -xvzf splunkforwarder.tgz

sudo ./splunkforwarder/bin/splunk start --accept-license

2. Enable Boot Start:

sudo ./splunkforwarder/bin/splunk enable boot-start

3. Check Forwarder Status:

sudo /opt/splunkforwarder/bin/splunk status

4. Create output.conf (to connect to indexer):

sudo nano /opt/splunkforwarder/etc/system/local/output.conf

[tcpout]

defaultGroup = default-autolb-group

[tcpout:default-autolb-group]

server = <indexer-ip>:9997

5. Create inputs.conf (to specify log sources):

sudo nano /opt/splunkforwarder/etc/system/local/inputs.conf

[monitor:///var/log/auth.log]

disabled = false

index = linux\_logs

sourcetype = linux\_secure

6. Restart Splunk Forwarder:

sudo /opt/splunkforwarder/bin/splunk restart

7. Use journalctl for modern system logs:

sudo journalctl -u ssh.service

sudo journalctl \_SYSTEMD\_UNIT=systemd-logind.service

```
sudo journalctl -xe | grep sshd
sudo journalctl -f -u sshd
```

8. Extract logs from journalctl into files:

sudo journalctl \_COMM=sshd > /var/log/ssh\_journal.log

9. Check if Splunk is listening on port 9997 (Windows):

netstat -an | findstr 9997

10. Verify connectivity from Linux to Indexer (Windows):

telnet <windows-ip> 9997

11. Deployment Client Config:

sudo nano /opt/splunkforwarder/etc/system/local/deploymentclient.conf

[deployment-client]

[target-broker:deploymentServer]

targetUri = <windows-ip>:8089

12. On Splunk Indexer: Create app folder (Windows):

mkdir C:\Program Files\Splunk\etc\deployment-apps\linux\_log\_inputs\local

Create inputs.conf inside it

13. Restart Splunk Services (Windows):

Restart via Services.msc or CMD: net stop splunkd && net start splunkd

14. Check Deployment Clients on Web UI:

Settings > Forwarder Management

15. Troubleshooting Useful Commands:

tail -f /opt/splunkforwarder/var/log/splunk/splunkd.log

sudo less /var/log/syslog

sudo less /var/log/auth.log

sudo less /var/log/kern.log

16. Example Search in Splunk:

index=linux\_logs sourcetype=linux\_secure