

# Module 1: Overview of Linux

---

## Case Study III

edureka!

**edureka!**

© Brain4ce Education Solutions Pvt. Ltd.

## Case Study

### Problem Statement

**Domain: Networking**

**OS: Linux**

**Focus: Development**

#### Networking

Tina brought her own laptop.

- Please help them to build a private network between her and Tom's laptops.
- Sometime, Tom and Tina like to work on each other's system from their own laptop. Please guide them about remote log-in. Please explain them about pros and cons of SSH and Telnet.
- Sometimes they want to share their files with each other over network. Please provide them various alternatives like FTP, TFTP, SCP and SFTP etc with their relative advantages
- They noticed that none of the alternatives worked for them. Please introduce them about various troubleshooting tools at Linux. It can be, wireshark, tcpdump, netstat command etc.
- Also explain them, the relevance and importance of opening of a specific port at firewall to run any server.
- Now they got Internet connectivity and they are about to connect both laptop to Internet. Explain them about possible DoS attack (and its remedy) if any port is open in the system.

Approach to solve:

- Connect Tom and Tina by lan cable or by wireless.
- Run command "ifconfig" to find if they are in same subnet.
- Try ping to other machines.
- If ping is successful then a connection is established.
- Let the communicate via ftp, scp , ssh, etc.