

SYSTEM AND NETWORK ADMINISTRATION LAB

Paper Code: ETIT-459(ELECTIVE)

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Paper: System and Network Administration Lab

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List of Experiments:

System Administration:

1. To install two or more operating systems on a computer.
2. Installation of Red Hat Linux using Graphical mode.
3. Installation of Red Hat Linux using command prompt
4. Creating a user in Linux server and assigning rights
 - i. Configuring and Troubleshooting of /etc/inittab.
 - ii. Configuring and Troubleshooting of /etc/passwd
5. Configuring and Troubleshooting of /etc/grub.conf

Network Administration:

Linux TCP/IP Network Configuration

Practical Examples of Nmap Commands for Linux System/Network Administrators

The Nmap aka Network Mapper is an open source and a very versatile tool for Linux system/network administrators. Nmap is used for exploring networks, perform security scans, network audit and finding open ports on remote machine. It scans for Live hosts, Operating systems, packet filters and open ports running on remote hosts.

1. Scan a System with Hostname and IP Address
2. Scan Multiple Hosts
3. Scan a whole Subnet
4. Scan Multiple Servers using last octet of IP address
5. Enable OS Detection with Nmap
6. Scan a Host to Detect Firewall
7. Scan a Host to check its protected by Firewall
8. Scan Ports Consecutively
9. Print Host interfaces and Routes
10. Scan a TCP Port
11. Scan a UDP Port