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# OSS Security Training Plan

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## Server Security

### Objectives

To protect the server and data from intentional and non-intentional attacks

### Prerequisites

Experience in System administration

Experience or some knowledge in setting Database server

Basic networking skill

### Training Outcomes

At the end of the courses the students should be able to perform the following:

One Day Course:

- O/S level security

Three Days Course:

- O/S level security
- Application level security

Ten Days Course:

- O/S level security
- Application level security
- Database level security
- Intrusion Detection

### Laboratory requirements

The lab should be able to provide hands-on training for the participants. The labs should also be able to support one, three or ten days courses.

### Hardware

Servers (minimum 2 units for possible clustering)

Terminals (individual participant)

### Software

O/S (that can support clustering)

## **Network**

Wired and Wireless LAN in its own separate segment

### **One Day Course**

#### **Basic O/S related security**

- Introduction to Linux Security Model
- Partitioning and File System Security
- Configure Security, Authentication and Access Settings
- Apply Security Updates
- Log Concept
- Understand Services and Protocols
- Introduction to secure remote administration
- Understand Firewall
- Simulated Attack

### **Three Day Course**

The first day would be “*Basic O/S related security*” (refer to above). The second and third day would cover:

- Managing Permissions
- Finding unsecured files
- Packet filtering
- IPTables
- Cryptography Basics
- SSL and VPN
- Securing Remote Access into the server
- Securing Apache with SSL
- Application-Level Gateway Basics
- Configure and Use of Proxy
- The Basic of Securing Services
- Audit and Log

### **Ten Day Course**

The first three days would cover the topics in the three day course. The other topics related to:

- Database level security
- Intrusion Detection

Will be covered in detail

- Introduction to Ethical Hacking
- Analysing your server security (e.g.: detecting/preventing Trojans, backdoors, bruteforce attack)
- DDoS attack
- IDS and IPS