Training
NEXT EXIT ↗

3 Days Course on
Linux Firewall & Security Administration

About the Course

The course will teach students how to use local and network security. This is a course for those responsible for the configuration, managing and setup of Linux system security e.g. kernel security, data security, file system security, password security, ACLs, SELinux, network services security, TCPWrappers, Linux-based firewall with iptables and Virtual Private Networking.

Goal

Upon completion of this course, students should be able to:

- Discuss network and local system security and place the firewall therein
- Install and harden Linux system
- System monitoring
- Understand PAM authentication
- Securing the kernel, file systems and data
- Manage TCPWrappers for securing services
- SELinux administration
- Configure iptables packet filtering and Network Address Translation
- Configure Virtual Private Networking
- Configure and use hacker's tools
- Detect and counter firewall intrusions

Pre-Requisites

Have an experience using Linux Operating System and have basic programming skills.

Who Should Attend

This course is designed for experienced Linux and networking professionals who are responsible for configuring and maintaining security for Linux systems. System / Network administrators & support people, programmers and prospective Linux power users, looking to harness the power of task automation through shell scripting.

Course Settings

Venue/Date	Refer to Training Calendar
Timings	0900-1700
Inclusive	Certificates and notes
Course Fees	Contact us at sales@2-sigma.com
Timings	0900-1700 (3 Days)
Audience	IT Officer, System and Network administrators
Level	Basic-to-Intermediate

Linux Firewall and Security Administration - Schedule

Day 1	
09.00am – 10.00am	**Introduction to Security and Firewall** • Definition of security • Security Policy • Type of attack • Principles of security • Security practices • Hackers, crackers and script kiddies • Motivation of hackers and crackers • What you have to lose • What is a firewall? • Position of a firewall • Virtual Private Networking • Network security techniques and usage
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	**PAM Authentication** • Authentication • PAM • Password security • Password policy • Utilities and authentication • PAM troubleshooting
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	**System Monitoring** • Introduction to system monitoring • File system analysis • System log file • Log file analysis • Monitoring process • Process monitoring utilities • System activity reporting • Limiting process • Process accounting tools **Installing and Securing Linux** • Installing Linux • Applying patches • Kernel recompilation • Hardening Linux • User account considerations • Disabling services • File system Hardening • Access Control Lists (ACLs) • Kernel tuning and configuration options

Day 2	
09.00am – 10.00am	**Securing Services** • System V startup control • Securing the services • TCPWrappers configuration • Securing xinetd • Securing DNS • Securing Mail
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	**Securing Data** • Fundamentals of encryption • The need for encryption • Symmetric encryption • Asymmetric encryption • Public Key Infrastructure (PKI) • Digital certificates
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	**SELinux Administration** • Security Enhanced Linux (SELinux) • SELinux targeted policy • SELinux installation options and control • Controlling SELinux • SELinux contexts • Troubleshooting SELinux
Day 3	
09.00am – 10.00am	**Securing Network** • Packet filtering overview • Network Address Translation • Kernel-level firewall implementation with iptables • Protection against spoofed addresses • IP masquerading • FWBuilder
10.00am – 10.30am	Breakfast
10.30am – 12.45pm	**Virtual Private Networking** • Virtual Private Network concepts • Virtual Private Network solutions • IPSec
12.45pm – 02.15pm	Lunch
02.15pm – 05.00pm	**Hacker's Tools** • Metasploit • Ethereal • Nmap • Nessus

More Information

Two Sigma Technologies
19-2, Jalan PGN 1A/1, Pinggiran Batu Caves,
68100 Batu Caves, Selangor
Tel: 03-61880601/Fax: 03-61880602

To register, please email to sales@2-sigma.com or fax the registration form to 03-61880602, we will contact you for further action.

Two Sigma Technologies
Suite B, 19-2, Jalan PGN 1A/1, Pinggiran Batu Caves,
68100 Batu Caves, Selangor
Tel : 03-61880601/Fax :03-61880602
sales@2-sigma.com
www.2-sigma.com