

CONTACT US

www.opensource.sa

P.O.Box: 5382
Dhahran 31311
Saudi Arabia
Fax: 03 891 3923
Mobile: 00966 547737747

Support :
support@opensource.sa

Sales:
sales@opensource.sa

Training :
training@opensource.sa

Course Title: Introduction to Linux Administration Course

Course Code: LINUX101

Duration: Four (4) days, seven (7) hours a day.

Course Description: LINUX101 (Introduction to Linux Administration) Course is designed for IT professionals who are new to Linux and require core Linux/UNIX skills. This course focuses on essential administration tasks that will be encountered in the workplace, including installing the operating system, establishing network connectivity, managing physical storage, and performing basic security administration.

Course Outline:

- Linux variants / Why Linux?
- In-depth step-by-step installation and configuration
- The Graphical User Interface (X Window)
- The Graphical User Interface (Wayland)
- Productivity tools in Linux
- Practice common UNIX commands using the command line interface (CLI)
- Windows ⇔ Linux commands
- Using Linux text editors
- Using the RedHat Package Manager (RPM), YUM, DNF and AppStreams
- Manipulating files and directories hierarchy in Linux
- Understanding Linux file system Hierarchical Structure (FHS)
- Linux file system Types
- Setting file and directory permissions
- Using CD-ROMs and USB flash memories in Linux
- Linux Disk Partitioning using fdisk
- Linux Logical Volume Manager (LVM)
- Stratis Volume Manager
- Disk Deduplication and Compression using VDO
- Understanding the startup and shutdown processes
- Understanding the Linux boot sequence
- Understanding the Linux boot loader (GRUB)
- Administering user accounts and groups
- Working with local authentication in Linux (passwd and shadow files)
- Working with elevated privileges (sudo and sudoers)
- Modules and drivers in Linux
- Basic system monitoring and troubleshooting
- Understanding issues related to System recovery
- System Recovery Techniques
- CPU performance Manipulation in Linux
- Using Performance Co-Pilot
- Administering Linux from the Web (Webmin and Cockpit)
- Basic Shell scripting in Linux
- Important reference sites

CONTACT US

www.opensource.sa

P.O.Box: 5382
Dhahran 31311
Saudi Arabia
Fax: 03 891 3923
Mobile: 00966 547737747

Support :
support@opensource.sa

Sales:
sales@opensource.sa

Training :
training@opensource.sa

Course Title: Advance Linux Administration Course

Course Code: LINUX102

Duration: Four (4) days, seven (7) hours a day.

Course Description: LINUX102 (Advance Linux Administration) Course is designed for experienced Linux administrators who require Linux networking administration skills. With a heavy emphasis on practical, hands-on labs, focus is placed on enhancing automation skills to securely configure, deploy, and manage network services including Apache, NIS, FTP, SAMBA, Firewalls and network file sharing.

Course Outline:

- Understanding System Administration Concepts
- Configuring Linux Networks
- Remote System Access and File Handling
- Virtual Computing Environment (VNC) in Linux
- Linux Service Management (System V, and systemd services)
- Manipulating systemd Units and Targets
- Understanding journald Logs
- Linux System Backup (using tar, dump and restore)
- Automating repeated tasks using Crontab and Systemd Timer
- Linux to Windows File Sharing (SAMBA)
- Configuring Network File System (NFS) servers
- Configuring the Automount Service
- Configuring Microsoft Windows CIFS shares in Linux
- Configuring FTP service
- Configure Control Access to FTP service
- Configuring Network Time Protocol (NTP)
- Configuring Chrony Time Protocol
- Configuring Apache Web Server
- Setting up Virtual Hosts with Apache
- Installing and Configuring Linux Virtualization (using KVM)
- Controlling VMs using Cockpit web console
- Understanding Linux Containers
- Working with Docker containers
- Working with Podman, Skopeo and Buildah
- Network Monitoring and Performance Tuning
- Measuring Network Performance
- Detecting Dropped Packets
- Analyzing Network Traffic
- Configuring Linux Firewalls (IPTables and nftables)
- Configuring Linux Firewalls (firewalld)
- Linux TCP Wrappers

CONTACT US

www.opensource.sa

P.O.Box: 5382
Dhahran 31311
Saudi Arabia
Fax: 03 891 3923
Mobile: 00966 547737747

Support :
support@opensource.sa

Sales:
sales@opensource.sa

Training :
training@opensource.sa

Course Title: Linux Identity Management

Course Code: LINUX201

Duration: Two (2) days, seven (7) hours a day.

Course Description: LINUX201 (Linux Identity Management) Course is designed for IT professionals to understand Light Weight Directory Access Protocol (LDAP) directories; deploy the Open Source IPA (or Red Hat IdM), and centralize Linux accounts management and authentication services across the enterprise.

Course Outline:

- Understanding Linux centralized authentication.
- Understanding and configuration Name Information Service (NIS)
- Understanding LDAP.
- Understanding Linux Identity Management (IdM).
- Installing an Identity Management (IdM) Server.
- Registering a Client System with Identity Management (IdM).
- Adding User and Group Entries to Identity Management (IdM).
- Controlling user accounts, groups and passwords policies in IdM.
- Using SUDO in IdM environment.
- Managing IdM through command Line.

CONTACT US

www.opensource.sa

P.O.Box: 5382
Dhahran 31311
Saudi Arabia
Fax: 03 891 3923
Mobile: 00966 547737747

Support :
support@opensource.sa

Sales:
sales@opensource.sa

Training :
training@opensource.sa

Course Title: Linux Security Hardening

Course Code: LINUX202

Duration: Three (3) days, seven (7) hours a day.

Course Description: LINUX202 (Linux Security Hardening) targets audience with Linux experience to understand, prevent, detect, and properly respond to sophisticated security threats aimed at enterprise Linux systems. The course equips Linux system administrators and security professionals with the skills and knowledge to harden their Linux systems against both internal and external attacks, providing in-depth analysis of the ever-changing threat models. The course builds on the security skills developed in other training courses so that administrators can design and implement an adequate security profile for critical enterprise systems.

Course Outline:

- Introduction to OS Security
- Understanding Users and User Accounts in Linux
- Users Accounts manipulation
- Pluggable Authentication Modules (PAM)
- Control Password Aging
- Global Password Expiration
- Elevating permissions with SUDO and SUDOers
- File System Encryption
- Mount File Systems with Secure Options
- Controlling File Permissions
- Files Special Permissions
- Access Control Lists (ACLs)
- Additional File Attributes in Linux
- Advanced Intrusion Detection Environment (AIDE)
- Auditing Linux Systems with Auditd
- Session Recording with tlog
- Linux Vulnerability Scanning with SCAP and OSCP
- Port Scanning for Network Services
- A Brief on Security Enhanced Linux (SELinux)
- Configuring Linux Firewalls (IPtables and nftables)
- Configuring Linux Firewalls (firewalld)
- Linux TCP Wrappers
- SSH Access Security
- Network Intrusion Detection using arpwat
- Linux Updates (*Red Hat Linux as an Example*)
- Further into Linux Security

CONTACT US

www.opensource.sa

P.O.Box: 5382
Dhahran 31311
Saudi Arabia
Fax: 03 891 3923
Mobile: 00966 547737747

Support :
support@opensource.sa

Sales:
sales@opensource.sa

Training :
training@opensource.sa

Official Red Hat Courses Offerings:

In addition to the in-house developed courses, Open Source Solutions offers all Red Hat official courses through partnering with other training centers:

Red Hat System Administration I (RH124)

Part 1 of the core system administration tasks needed for Red Hat Enterprise Linux. Red Hat System Administration I (RH124) is designed for IT professionals without previous Linux administration experience. The course focuses on providing students with Linux administration "survival skills" by focusing on core administration tasks.

Red Hat System Administration II with RHCSA exam (RH135)

Part 2 of the core system administration tasks needed for Red Hat Enterprise Linux. This course is specifically designed for students who have completed Red Hat System Administration I (RH124). This version of the course includes the Red Hat Certified System Administrator Exam (EX200).

Red Hat Enterprise Linux Automation with Ansible (RH294)

Red Hat Enterprise Linux Automation with Ansible (RH294) is designed for Linux system administrators and developers who need to automate provisioning, configuration, application deployment, and orchestration.

Red Hat Satellite Administration (RH403)

Red Hat Satellite Administration (RH403) explores the concepts and methods necessary for successful large-scale management of Red Hat Enterprise Linux systems. Participants will learn how to configure Red Hat Satellite on a server and populate it with software packages, manage the software development life cycle of a subscribed host, and learn how to provision hosts integrated with software and Ansible configuration management upon deployment.

Red Hat Enterprise Performance Tuning (RH442)

Red Hat Performance Tuning: Linux in Physical, Virtual, and Cloud (RH422) teaches senior Linux® system administrators the methodology of performance tuning. This course discusses system architecture with an emphasis on understanding its implications on system performance, performance adjustments, open source benchmarking utilities, networking performance, and tuning configurations for specific server use cases and workloads.

Red Hat OpenShift I: Containers & Kubernetes (DO180)

Red Hat OpenShift I: Containers & Kubernetes (DO180) introduces students to building and managing containers for deployment on a Kubernetes cluster. This course helps students build core knowledge and skills in managing containers through hands-on experience with containers, Kubernetes, and the Red Hat OpenShift Container Platform needed for multiple roles, including developers, administrators and site reliability engineers

Red Hat OpenShift Administration II: Operating a Production Kubernetes Cluster (DO280)

Red Hat OpenShift Administration II: Operating a Production Kubernetes Cluster (DO280) teaches you how to configure, troubleshoot, and manage Red Hat® OpenShift® Container Platform. This hands-on, lab-based course shows you how to verify the successful installation of a cluster, manage it on a day-to-day basis, and troubleshoot the deployment of containerized applications.

CONTACT US

www.opensource.sa

P.O.Box: 5382
Dhahran 31311
Saudi Arabia
Fax: 03 891 3923
Mobile: 00966 547737747

Support :
support@opensource.sa

Sales:
sales@opensource.sa

Training :
training@opensource.sa

Terms and Conditions

- Registration must be confirmed fourteen (14) days prior to course starting date.
- Minimum of **4 students are required** to initiate a course session.
- Courses may be conducted at the customer's premise, or at a certified training center.