

Linux Fundamentals & Troubleshooting Red hat Enterprise Linux 7 / CentOS 7

Description

Linux powers 94% of the world's supercomputers, most of the servers powering the Internet, the majority of financial trades worldwide and a billion Android devices. In short, Linux is everywhere. It appears in many different architectures, from mainframes to server to desktop to mobile and on a staggeringly wide variety of hardware. This free self-paced course will teach you how to develop a good working knowledge of Linux using both the graphical interface and command line.

Audience

This class is designed for people who have little or no prior experience with Linux or UNIX. System administrators, developers, architects, decision makers or new Linux users can all benefit from the content covered in this class, especially if they are looking to work with more involved topics such as Linux system administration, network management and enterprise system architecture.

Duration: 32 hours

Requirements

This Course includes hands on labs training. Users should have access to physical or virtual environment with RHEL 7.x / CentOS 7.x installation. Or Internet access to Tracston labs.

Module 1 – Day 1

- **What is Linux?**
 - Overview
 - History of Linux
 - Popular Linux Operating Systems
- **Hardware Requirements**
- **Linux Installation**
- **RHEL / CentOS Linux System Structure**
- **Graphical Interface**
- **System Configuration From The Graphical Interface**
- **System Configuration From Command Line**
- **Network Operations**
 - Configuring Network
 - Configuring Hostname
 - Configuring DNS
- **Configuring Firewall**
- **Finding Linux Documentation**
- **Command Line Operators**
- **Adding Software (Yum)**

Module 2 – Day 2

- **File Systems**
- **Managing Packages**
- **File Operations**
- **User Environment**
- **Local Security Principles**
- **Troubleshooting**
 - Installation
 - Boot issues
 - Networking
 - Storage
 - System Performance
 - Security
- **Bash Shell Scripting**
- **Manipulating Text**
- **Monitoring**

Module 3 – Day 3

- **Advanced Troubleshooting**
 - Installation
 - Boot issues
 - Networking
 - Storage
 - System Performance
 - Security
 - Resolving Dependency Issues
- **Monitoring System Performance**
 - **Security**
 - **Management**
 - **Performance & Scalability**

Module 4 – Day 4

- **Advanced Troubleshooting**
 - **Troubleshooting techniques**
 - **Troubleshooting hardware**
 - **Troubleshooting applications**
 - **Troubleshooting disks**
 - **Advanced Network Troubleshooting**
- **Advanced Bash Scripting**
- **Processes**
- **Common Applications**
 - Apache
 - Postfix
 - Samba
- **Development Tools**
 - SDK
 - IDE tools
 - CLI
- **Summary**