

**Updating Your RHEL 7 Skills to Red Hat Enterprise Linux 8**

**Course Number:** LNX-136  
**Duration:** 2 days

**Overview**

This Updating Your RHEL 7 Skills to Red Hat Enterprise Linux 8 training teaches attendees the new, modified, deprecated, and removed features for a smooth transition from RHEL 7 to RHEL 8. This course covers similar topics to Red Hat course 354.

**Prerequisites**

All students must have experience with:

* The Linux core file and system utilities
* RHEL 7 or CentOS 7

**Materials**

All RHEL 8 training attendees receive comprehensive courseware.

**Software Needed on Each Student PC**

Attendees will not need to install any software on their computers for this class. The class will be conducted in a remote environment that Accelebrate will provide; students will only need a local computer with a web browser and a stable Internet connection. Any recent version of Microsoft Edge, Mozilla Firefox, or Google Chrome will work well.

**Objectives**

* Use and understand RHEL 8 capabilities for daily administrative and application operations
* Install and upgrade to RHEL 8
* Understand the fundamentals of shells, programming languages, and interfaces
* Take advantage of administrative tools, packaging, storage, networking, and security

**Outline**

* Introduction
* Installation and Upgrade
  + New installation selections
    - Source, software, system purpose, network
  + Kickstart changes (files and setup)
  + Upgrading RHEL 8 to newer point releases
  + Upgrading RHEL 7 to RHEL 8
* Fundamentals
  + Versions and features
    - Bash
  + Kernel
    - Version, parameters, memory control, I/O scheduling
  + Interfaces
    - GNOME
  + Performance management
    - pidstat
  + Configuration management
    - Ansible Core
    - RHEL 8
* Administration
  + Tools
    - Cockpit
    - Red Hat customer portal (WebBased UI)
    - Gnome-control-center
* Software Packaging
  + Tools
    - Yum
  + Repositories
    - Legacy (using
    - Streamed (BaseOS, AppStream)
    - Network-served (via Apache)
* User Accounts
  + User account creation / modification
    - Cockpit, gnome-control-center
    - Credential control via sssd
* Networking
  + Network profiles (creation and switching)
    - Cockpit
    - Gnome-control-center
  + User-defined network interface name prefixes
* Services and Daemons
  + Journaling
    - Via journalctl
    - Via cockpit
* Boot Control
  + GRUB 2
    - Key file locations
    - (New) boot loader files
  + Single-user mode
  + Recovery (boot) mode
  + Install rescue mode
* Storage
  + File systems
    - Ext4 (file creation date)
    - Changes to /tmp (tmpfs)
  + LUKS 2 encryption
  + Stratis (pool) volume management
  + VDO volume management
* Security
  + Core cryptographic components
    - Update-crypto-policies
  + fips-mode-select
  + Software firewalls
    - Firewall-cmd
    - Nft
  + SELinux
    - New booleans
    - Python 3
* Conclusion