

Red Hat Enterprise Linux V8 Differences

Course Summary

Description

This course covers the major differences between RHEL 7 and RHEL 8. Major topics covered include: software management, networking and firewalls, storage, authentication, auditing, containers and virtualization.

Topics

- Software Management
- Networking
- Storage
- Security
- Container Technology Overview
- Virtualization
- Clustering
- Desktop

Prerequisite

Course is targeted at Linux Sysadmins with experience using RHEL7.X and wishing to understand the significant new technologies introduced by RHEL 8. Attendees must be proficient at the command line and should have familiarity with RHEL 7.X Linux.

Duration

Two Days

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Course Outline

- I. *Software Management***
 - A. Composer
 - B. DNF
 - C. Application Streams

- II. *Networking***
 - A. systemd replacements for: tcp_wrappers, Xinetd
 - B. Nftables and iptables-translate
 - C. FirewallD and nftables
 - D. IPVLANs
 - E. New TCP congestion algorithms (BBR and NV)
 - F. NetworkManager and SR-IOV virtual functions
 - G. Ntpd removed, chronyd only

- III. *Storage***
 - A. LUKS2 enhancements
 - B. LUKS2 NBDE
 - C. Stratis
 - D. XFS Copy-on-Write
 - E. cp --reflink
 - F. Btrfs, Lvm2, Dmraid removal implications

- IV. *Security***
 - A. Openscap
 - B. System-wide Cryptographic Policies
 - C. Nftables
 - D. nfsnobody, and nobody account changes
 - E. SSSD and local /etc/{passwd,shadow}
 - F. Auditd updated to v3, audispd removed

- V. *Container Technology Overview***
 - A. podman
 - B. skopeo
 - C. buildah

- VI. *Virtualization***
 - A. Cockpit
 - B. virt-manager (deprecated)

- VII. *Clustering***
 - A. Updated pcs, corosync, pacemaker2
 - B. Clvmd removed, replaced with lvmlockd

- VIII. *Desktop***
 - A. Wayland GUI server
 - B. Xorg and VMs