

# What's new with Red Hat Enterprise Linux 8 and Red Hat Virtualization

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Red Hat Enterprise Linux (RHEL) 8 is based upon the principles of "operational consistency, security, and cloud foundation." Utilizing kernel 4.18x, RHEL 8 is based on Fedora 28 and will run on Intel/AMD 64-bit processors as well as IBM Power LE, IBM z Systems, and ARM 64-bit.

Red Hat has sought to reduce complexity in RHEL 8, which comes with ten guaranteed years of enterprise support. Their model involves repositories for the base operating system as well as application streams for flexible lifecycle options, which offer multiple versions of databases, languages, various compilers, and other tools to help facilitate the use of RHEL for business models.

Build-in defaults in RHEL 8 include tuned profiles for database options (ready-to-go options out of the box) and ansible system roles to provide a common configuration interface (ensuring standardization and reliability)

The RHEL 8 YUM package manager is now based on the Dandified Yum (DNF) technology, which supports modular content, better performance, and a stable API for integration with tooling. User feedback indicated that "yum is a lot faster than it used to be, and all the commands work well."

Red Hat Insights (tools to provide system administrators with analytics, machine learning, and automation controls) are now included in RHEL 8 along with a session recording feature, which can record and playback user terminal sessions for better security and training capabilities.

[2]

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