Red Hat Summit

Connect

Hidden Treasures

Top 10 underrated tools included in your Red Hat Enterprise Linux subscription

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Red Hat

Speaker



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The value of Red Hat Enterprise Linux



Innovate

Boost innovation across the hybrid cloud



Protect

Operate confidently with security in mind from the start



Simplify

Optimize operations with a single platform



Trust

Transform technology with a trusted foundation

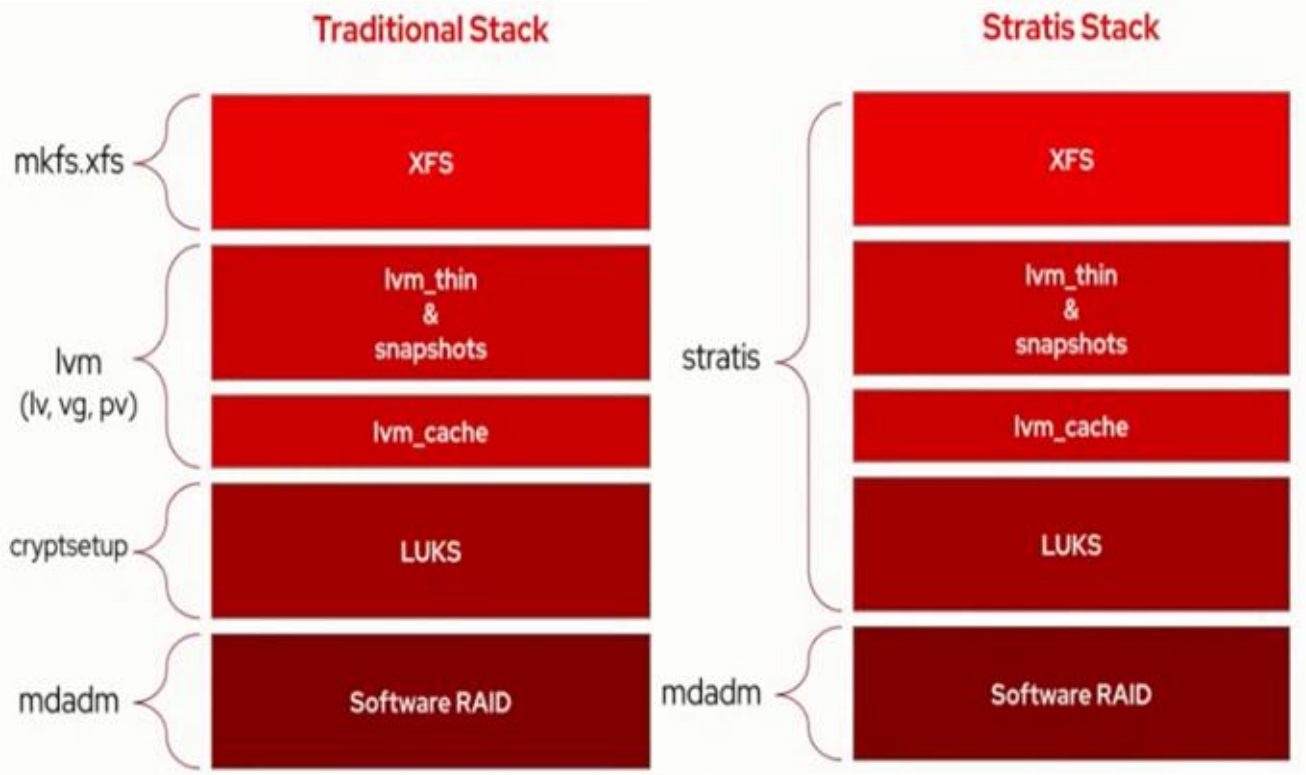
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10 underrated tools



Stratis

Simplify local storage management



- Consolidated volume & file system management:
  - Integrated encryption
  - Trusted Platform Module support
  - Snapshots
  - Thin provisioning
  - Dynamic storage expansion
- Consistent Interfaces: Web console, CLI, API.

RHEL system roles

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A collection of supported Ansible roles included in a RHEL subscription to help automate consistent and repeatable OS tasks and configurations.

- Save time and streamline deployments by automating manual tasks and reduce human error
- Automate security workflows and maintain them over time, at scale, and with minimal resources.
- Installed and run from a central node referred to as the control node (which can be Ansible Automation Platform, Red Hat Satellite, or a Red Hat Enterprise Linux system)

Try it for yourself:
red.ht/rhel-system-roles

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RHEL system roles

Streamline system deployment and management



Security

Automate security workflows and maintain them over time, at scale, and with minimal resources. Consistency helps streamline governance and compliance requirements.

- SELinux
- Certificate
- Firewall
- NBDE client and server
- Sudo
- Tlog
- SSH client
- SSH server
- Crypto policies
- VPN
- Fapolicyd
- AIDE
- Keylime server



Configuration

Save time and streamline deployments by automating manual tasks that ensure a consistent administrative experience and scales across systems.

- Kdump
- Network
- Storage
- Timesync
- Kernel settings
- Podman
- Journald
- systemd
- Logging
- Metrics
- Postfix
- HA cluster
- Cockpit
- RHC
- Snapshot
- Bootloader
- AD integration



Workloads

Easily optimize the most popular workloads at the time of deployment and simplify ongoing administration by automating workload-specific tasks.

- SAP
- Microsoft SQL Server
- PostgreSQL



Image Builder

Streamline Red Hat Enterprise Linux system deployments across the hybrid cloud



Facilitate rapid deployment of images and updates



Streamline the path from development to production



Deploy to the cloud more easily and accelerate cloud workload migrations



Configure systems consistently across the hybrid cloud



Mitigate risk with the power of automation and workflows



Implement your chosen standard operating environment strategy

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Multiple ways to use Image Builder

Image Builder | On premise

- Command line tool
- On-premises build node
- Included with Red Hat Enterprise Linux (RHEL) subscription

RHEL Web Console | On premise

- Via interface in RHEL web console
- On-premises build node
- Included with RHEL subscription

Red Hat Lightspeed Image Builder | Hosted

- Cloud-hosted experience
- No infrastructure required
- Included with RHEL subscription
- API for CI/CD automation
- console.redhat.com

Soft reboot

Faster deployment of changes and minimal maintenance downtime

For Image Mode a soft-reboot can reload your system after an image update in almost the same time it takes to just reload services, as long as the kernel hasn't changed.

```
# bootc update --soft-reboot=required
```

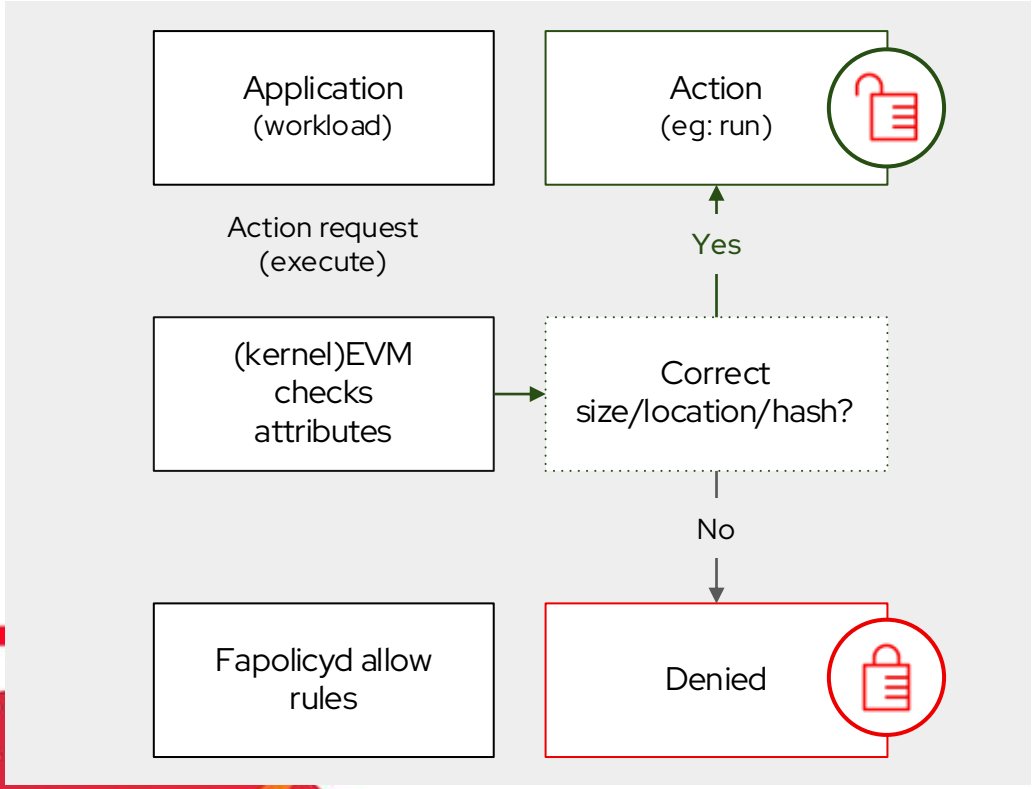
For Package Mode quickly reload your system after updates, without the need to re-initialize firmware and other boot-time actions.

```
# systemctl soft-reboot
```

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fapolicyd

Control the execution of applications based on a user-defined policy



- Predetermine trusted programs authorized to run on a machine
- Detect or prevent modified apps from running
- Leverage predefined policy for most use cases (RPM database)
- Control execution based on file path, hash, or integrity
- Allows open/exec for binaries
- Place more control in the hands of admins

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Lightspeed Vulnerability

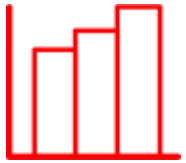
Remediate all Common Vulnerabilities and Exposures (CVEs)



Assess and monitor the risk of vulnerabilities that impact Red Hat products with operational ease



Remediate known Common Vulnerabilities and Exposures (CVEs)



Ability to generate reports to keep relevant stakeholders informed

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Terminal session recording

4

See and log what users are doing in the terminal



- Based on `tlog`
- Other modes of session recording can still be used (auditd, script, sudo, etc.)
- Integrated into the web console
- Multiple players available for playback

Official Red Hat guide available
https://red.ht/2pWcvni

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auditd

3

Kernel-level logging for security auditing and forensics

```
# auditctl -a always,exit -S unlink -S unlinkat -S
rename -S renameat -F auid>=1000 -F auid!=4294967295 -
k delete
```

Rules can be easily created

Define a rule that creates a log entry every time a file is deleted or renamed by a system user whose ID is 1000 or larger

- Security Tracking: Monitors and tracks security-relevant events across the system.
- Policy Enforcement: Identifies and discovers security policy violations.
- Detailed Logging: Generates comprehensive log entries for all system events and remote logging.
- Forensic Analysis: Pinpoints violators and their specific actions in mission-critical environments

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Quadlet

2

Automating pods management with systemd

```
[Unit]
Description=A minimal container

[Container]
# We want to use the ubi9 image
Image=ubi9

# In the container we just run sleep
Exec=sleep 60

[Service]
# Restart service when sleep finishes
Restart=always

[Install]
WantedBy=multi-user.target default.target
```



Native integration with systemd

describe how to run a container in a format similar to regular systemd unit files. It is available starting with Podman v4.6



Simplify

manage OCI and Docker-formatted containers using the familiar systemctl command

Try it for yourself: red.ht/quadlet-lab



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Red Hat IdM

1

Centralized identity management, enforce security controls, and comply with security standards

Centralize

Manage identities and enforce authentication policies from a centralized location to ensure consistency across all platforms and footprints, improve the user experience, and ease IT burden.

Secure

Configure access requirements and customize permissions to enforce security controls based on the principle of least-privilege, ensuring the right people have the right access at the right time.



Comply

Implement compliance best practices and standards with an independently certified solution that supports your overall identity management strategy.

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Red Hat IdM

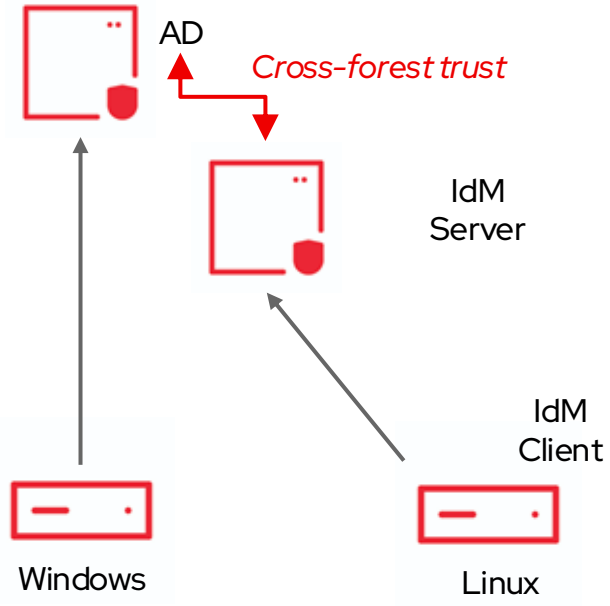
Centralize identity mgmt, enforce security controls, and comply with security standards

Use Multifactor Authentication as an extra layer of security



Configure password, radius, password OTP, PKINIT, OAuth 2, hardened password, or Passkey support using FIDO2 protocol

Authentication using external identity providers



Can be integrated with external IdPs using OAuth 2.0, e.g. EntraID, Active Directory, Red Hat build of Keycloak

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The Complete List

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