

Red Hat
Summit

Connect

How to manage your future RHEL estate

Red Hat Satellite

Red Hat Lightspeed (Insights)



Red Hat
Enterprise Linux 10



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Red Hat Satellite and Red Hat Insights

Management meets observability

Red Hat management tools

Navigate Infrastructure Complexity



Insights

Gain a clear view across your Red Hat deployments, helping you better manage your hybrid, on-premises, and cloud environments.



Satellite

Enables you to improve the reliability, availability, security and compliance of your RHEL systems.



RHEL System Roles

A collection of supported Ansible roles that ensure consistent workflows and streamline the execution of manual tasks



AAP

Automate IT operations at scale with a consistent, repeatable approach to simplify complex environments.

Red Hat management tools

Which one do I need?



Use Insights if you

- don't want to set up your own infrastructure.
- want to use technologies to proactively protect and maintain your infrastructure
- make extensive use of public cloud infrastructure



Use Satellite if you

- require air gapped infrastructure
- need to comply with requirements that don't permit public cloud infrastructure
- make extensive use of vmware infrastructure (and other hypervisors)



RHEL System Roles are for

- creating standardized configurations that can be applied at scale
- ensuring your RHEL landscape conforms to a Standard Operating Environment
- automatically configuring complex applications



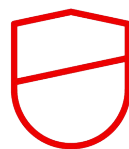
AAP if you

- need to automate complex, multi-step operational processes
- want a centralized platform to manage and scale automation
- require role-based access control, auditing, and scheduling for automation tasks

How Red Hat Satellite can help your business



Control what gets
deployed, where and
when



Maintain compliance
with security and
regulatory policies



Streamline patch and
content lifecycle
management



Support disconnected
and hybrid
infrastructure at scale

This helps you enforce consistency, security, and reliability across your RHEL environments - to help you **gain full control over your infrastructure and reduce operational risk**

Red Hat Satellite capabilities include



Advisor

Recommendations for misconfigurations and best practices to improve stability, performance & availability



Patch

Schedule and automate patch application across system groups to ensure consistent security and stability



Provisioning

Deploy your RHEL estate on bare-metal, virtual and cloud environments



Content management

Distribute and manage software content across your infrastructure



Host configuration

Standardize system configuration using host groups, activation keys, and parameter inheritance across managed systems



Subscriptions

Delivers visibility into Red Hat subscription status, usage trends and utilization across your infrastructure



Compliance

Monitors compliance with security baselines to report on and meet regulatory requirements at scale

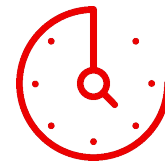
How Red Hat Insights can help your business



Keep systems consistent
and up to date.



Identify security and
performance risks.



Minimize
troubleshooting time.



Monitor and
manage costs.

This helps you decrease the complexity of system, security, and cost management across your entire enterprise—to help you **optimize your operations and allow you to focus on business-critical priorities.**

Connected Capabilities of Red Hat Insights include



Advisor

Recommendations for misconfigurations and best practices to improve stability, performance & availability



Patch

Tracks applicable Red Hat errata across environments including security, bug fixes and enhancement advisories



Vulnerability

Identifies, prioritizes and reports on known security Common Vulnerabilities and Exposures (CVEs)



Images

Simplifies image customization via the creation of blueprints and deployment across hybrid environments.



Cost Management

Provides visibility into usage and cost trends across hybrid cloud environments



Subscriptions

Delivers visibility into Red Hat subscription status, usage trends and utilization across your infrastructure



Compliance

Monitors compliance with security baselines to report on and meet regulatory requirements at scale



Malware Detection

Scans for known malware using a curated signature database developed with IBM X-Force

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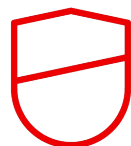
Streamline patch and
content lifecycle
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Today and tomorrow

What's available today and where we are going with it

Red Hat Satellite 6.17



Support for Red Hat Enterprise Linux 10

Inventory and manage systems running Red Hat Enterprise Linux 10



Image mode support

New support for provisioning, client management, and registry distribution for systems created with image mode for Red Hat Enterprise Linux



Support for Flatpak content

Simplify importing, managing, and deploying updates via containers with support for Flatpak content, including both custom packages and Red Hat-provided applications



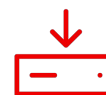
Secure boot support

Enhance security during provisioning workflows on bare-metal, VMware vSphere, and Libvirt platforms



IPv6 support

Deploy Satellite in an IPv6 environment to help address the limitations of IPv4, including improved network efficiency and security

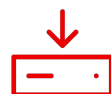
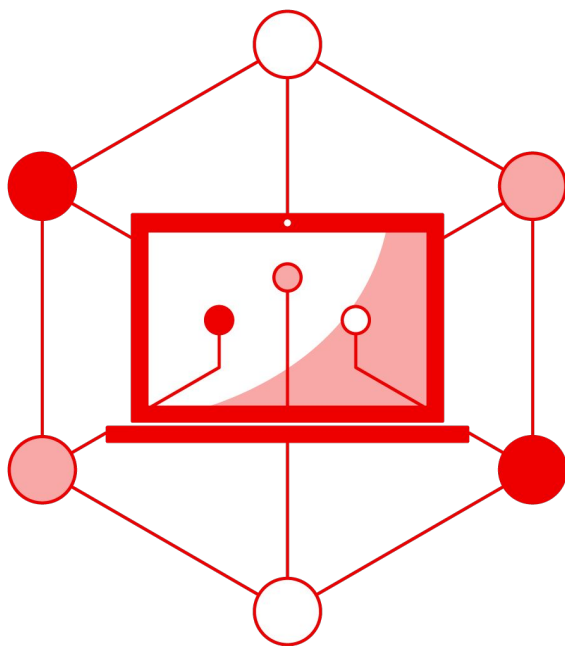


Red Hat Insights advisor

Get proactive risk detection and configuration recommendations without connecting directly to the internet via an on-premise extension (now available in tech preview)

Red Hat Insights advisor in Satellite

Analyze and remediate availability, performance, and security risks in disconnected environments



Use Insights advisor's business rules and logic—codified from decades of Red Hat Enterprise Linux expertise—to **monitor system configurations, detect risks, and prescribe remediations without sending data off-premise**

- ▶ Flexible options for installing and upgrading
- ▶ Separation, minimal access, and ultimate control for highly regulated industries and geographies
- ▶ Proactive recommendations catch problems early, minimizing downtime

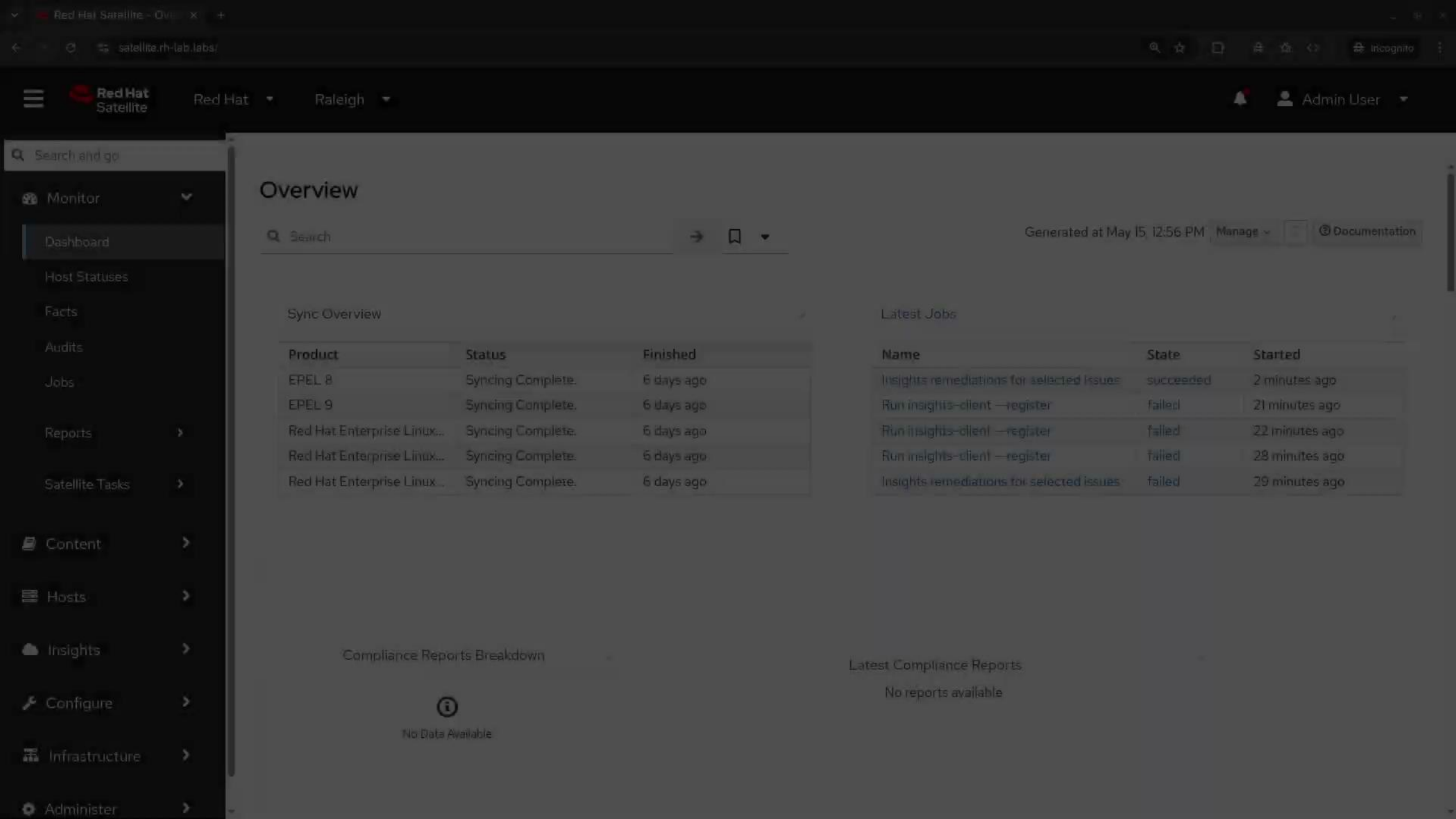
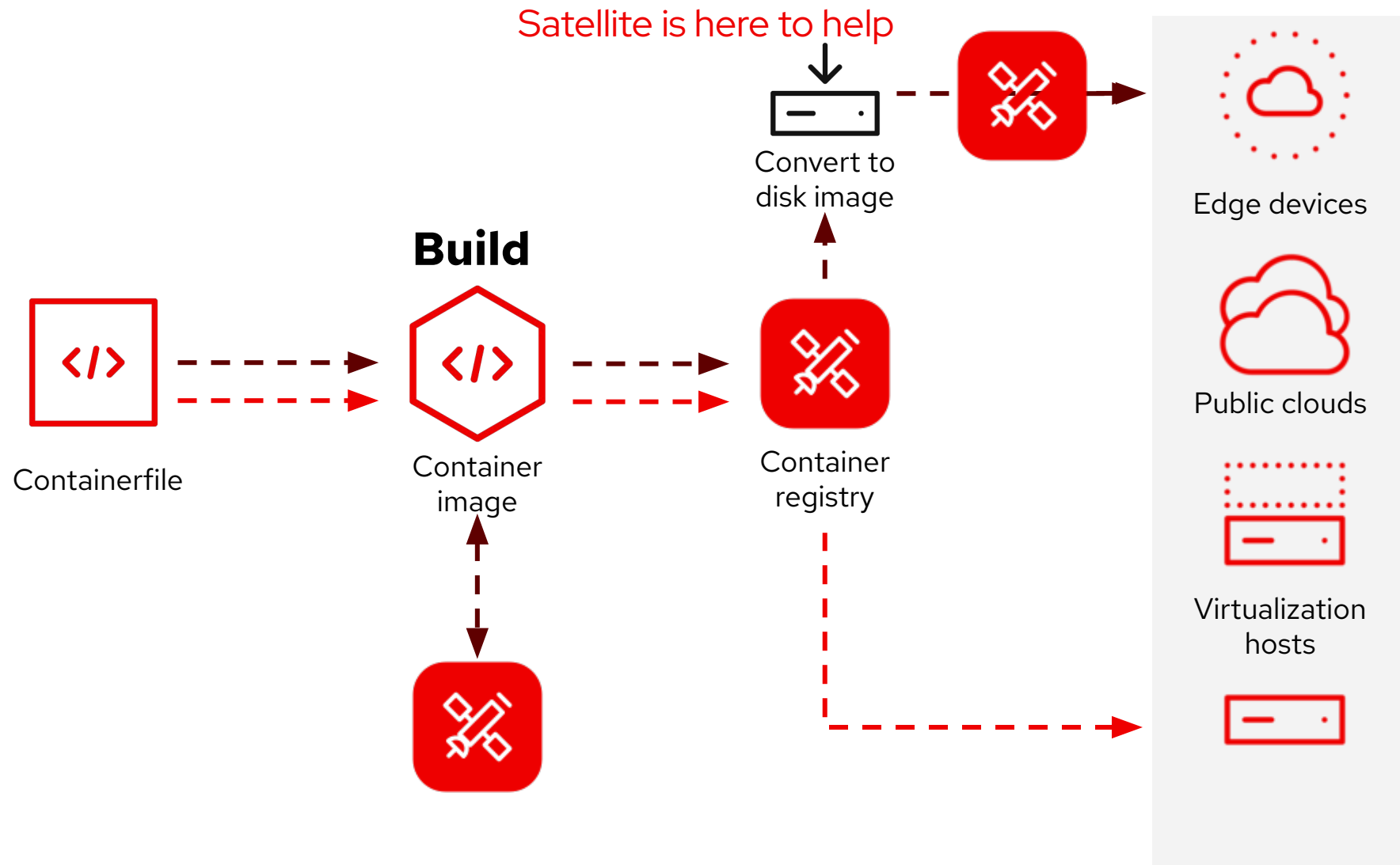


Image mode for Red Hat Enterprise Linux



Management overview

Same Satellite, another RHEL footprint!

☰

Red Hat Satellite

Home_Organization ▾ Home ▾

Admin User ▾

Search and go

Monitor >

Content >

Hosts ▾

Discovered Hosts

All Hosts

Create Host

Content Hosts

Host Collections

Register Host

Provisioning Setup >

Templates >

Hosts

Schedule a job ▾ Register Create ⋮

1 - 7 of 7 < >

☐ ▾

Search

→

🔖 ▾

⋮ Manage columns

| Power | Type | Name | Host group | OS | RHEL Lif... | Installable updates | Lifecycle... | Content view |
|--------------------------|------|----------------------------|----------------------------|-------------|--------------|---------------------|--------------|---------------------|
| <input type="checkbox"/> | 🔌 | build.homelab.com | rhel_package_mode | RHEL 9.6 | Full support | 🛡️0 🐛0 ⚙️0 📦0 | test | home_content_view ⋮ |
| <input type="checkbox"/> | 🔌 | carol-wymer.homelab.com | rhel_image_mode_from_image | RedHat 10.0 | Full support | 🛡️0 🐛0 ⚙️0 📦0 | test | home_content_view ⋮ |
| <input type="checkbox"/> | 🔌 | irene-gillson.homelab.com | rhel_package_mode | RedHat 9.4 | Full support | 🛡️106 🐛236 ⚙️7 📦859 | prod | home_content_view ⋮ |
| <input type="checkbox"/> | 🔌 | leo-meccia.homelab.com | rhel_package_mode | RedHat 10.0 | Full support | 🛡️6 🐛5 ⚙️1 📦31 | test | home_content_view ⋮ |
| <input type="checkbox"/> | 🔌 | loren-kilby.homelab.com | rhel_package_mode | RHEL 9.5 | Full support | 🛡️13 🐛75 ⚙️0 📦209 | test | home_content_view ⋮ |
| <input type="checkbox"/> | 🔌 | satellite.homelab.com | | RHEL 9.6 | — | — | — | — ⋮ |
| <input type="checkbox"/> | 🔌 | sonia-zakowski.homelab.com | rhel_image_mode_from_image | RHEL 9.5 | Full support | 🛡️19 🐛90 ⚙️0 📦243 | test | home_content_view ⋮ |

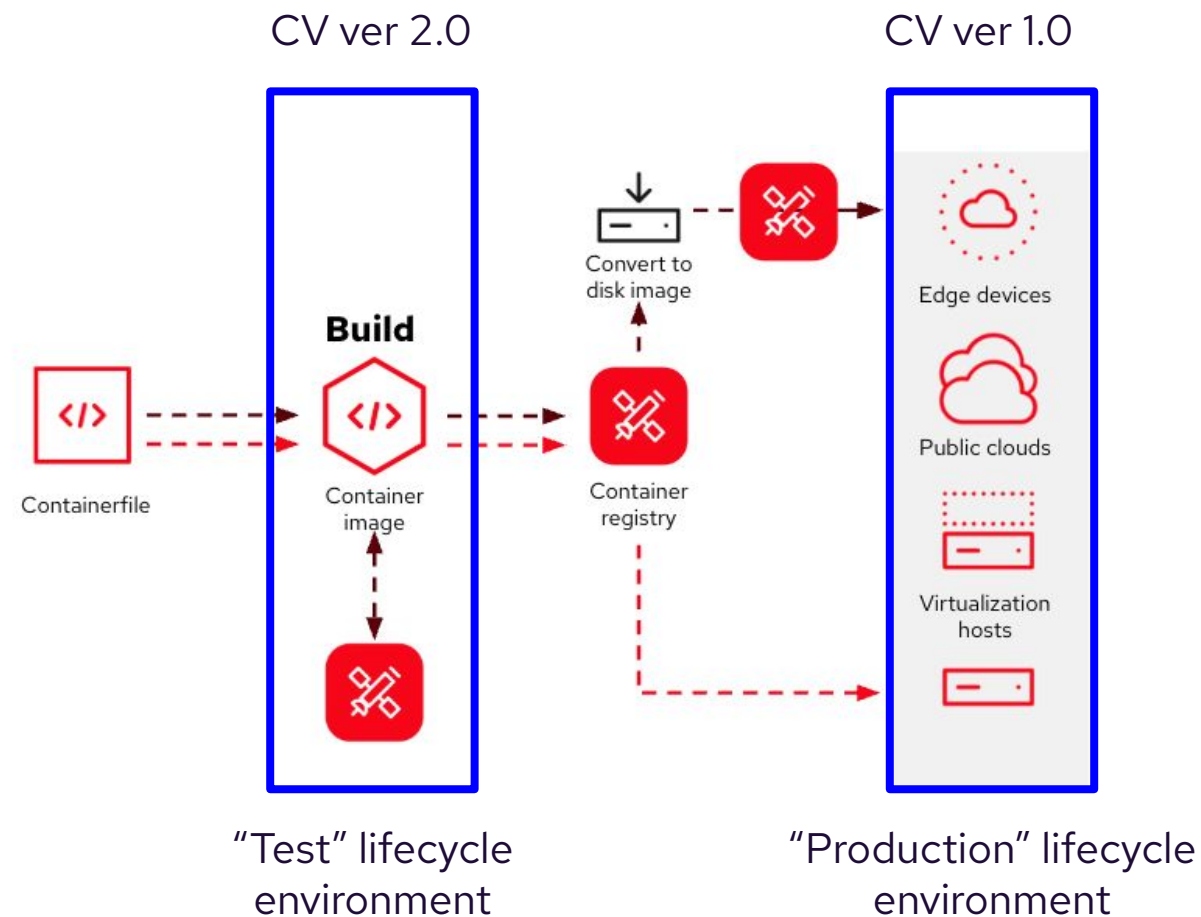
1 - 7 of 7 items << < 1 of 1 > >>

Updates

Getting your container image to the latest version

- Assuming your Build host is In Test" lifecycle environment
- Uses a separate content view or the content view being used gets promoted first to the testing environment
- Before building a new version of the container image is good idea to update the build host.
- While building the new version of the container image it is recommended to update packages till latest available as per the **content view settings - update container file (kind of prepare your patch !!!)**

##update to latest
RUN dnf update -y

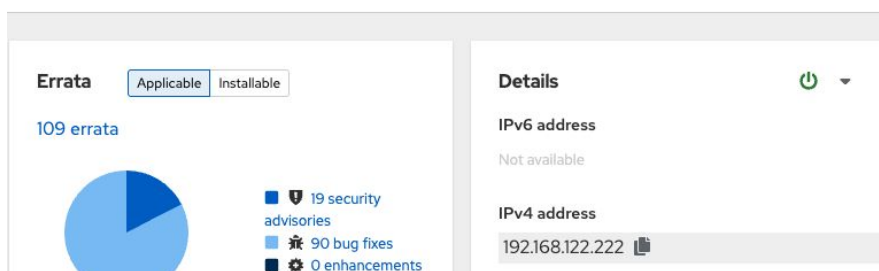
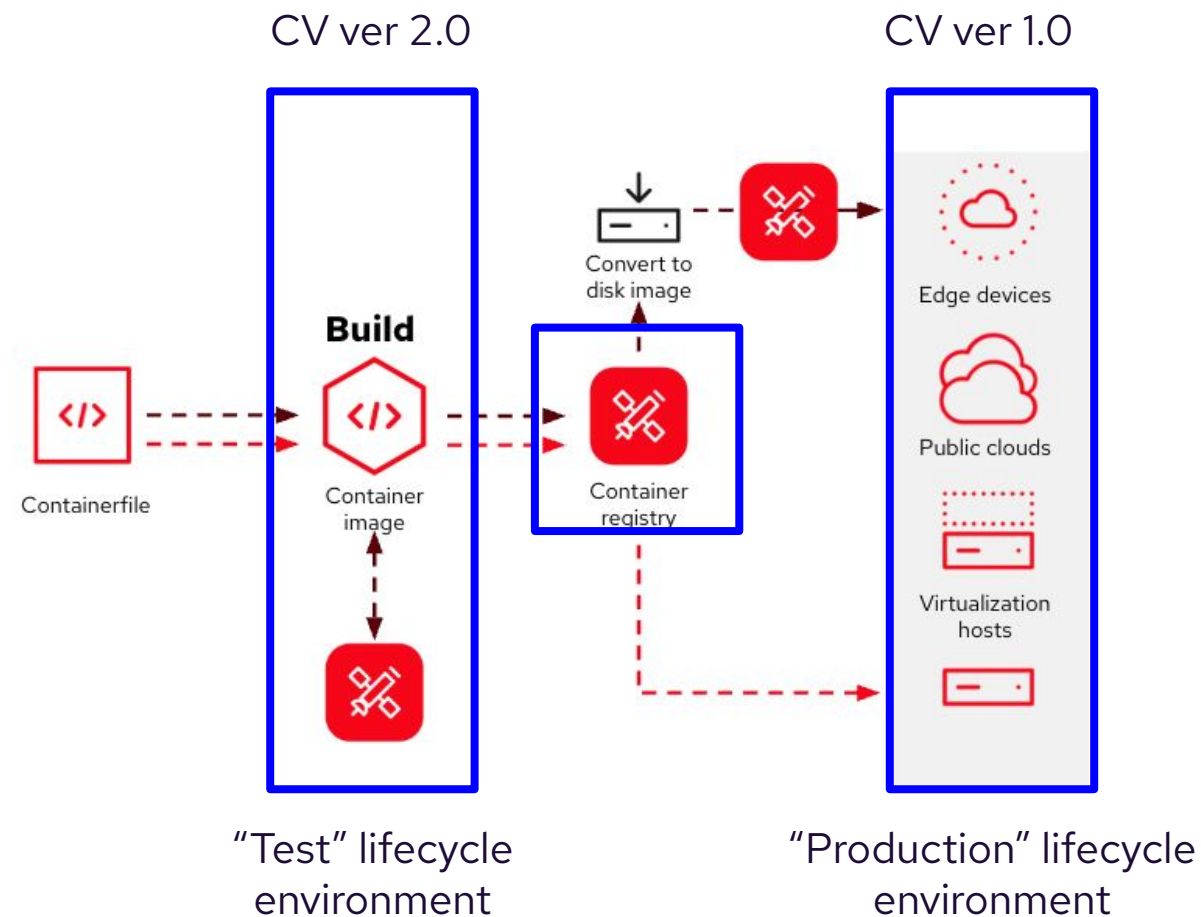


Updates

Making it available

- Once the image is ready, push it to Satellite
- Do not forget to promote the content view to production environment !
- At this moment your "patch" is ready to be deployed and consumed by all systems using the same container image and having access to the same content view
- Here's how you update those systems

Schedule a job ▼ Edit ⋮



Additional value included with your Red Hat Satellite subscription

Red Hat Offline Knowledge Portal

Now available with a Satellite subscription. A secure, offline version of our expert knowledge and product contents. Wherever you go, you can take the content you need to set up, run, and diagnose our products. And it's light enough to run at the edge! Meet the devs and get hands on demos at the Experience Zone.



Contains the content you need to set up, run, and diagnose our products:

- Product documentation
- Knowledgebase
- CVEs (content)
- Errata (content)
- Product Lifecycles
- Security Data API
- Pages from the Customer Portal
- Search Interface for All Content

Built for intentional disconnection or intervals of low or no bandwidth:

- Desktop at a work site that is air-gapped for security
- Closed circuit network on a ship at sea
- Phone at a remote cell tower
- Consulting firm laptop for client site visits without WiFi
- A Red Hat certification exam room

RHOKP is a single image appliance that is:

- Total is 7GB in size
- Runnable with Podman
- OpenShift ready

Red Hat Lightspeed Roadmap - RHEL



Recent

Q4 2025

1H 2026

2H 2026

Red Hat Insights advisor
in Red Hat Satellite - Tech
Preview ([Blog](#))

Insights Planning

Digital Roadmap

Red Hat Insights rebranded
to Red Hat Lightspeed

Insights MCP - Tech
Preview

Red Hat Lightspeed in Red
Hat Satellite
- Advisor (GA)
- Vulnerability (Tech
Preview)
Compliance integrated in
Image Builder

Insights MCP - GA

Red Hat Lightspeed in Red
Hat Satellite
- Vulnerability (GA)
- Compliance (Tech
Preview)

Agentic Management demo

Partner YARA rules for
Malware

LLM Augmentation of
presented findings
(Malware)

Additional LLM
Augmentation of findings

Red Hat Lightspeed in Red
Hat Satellite
- Compliance (GA)

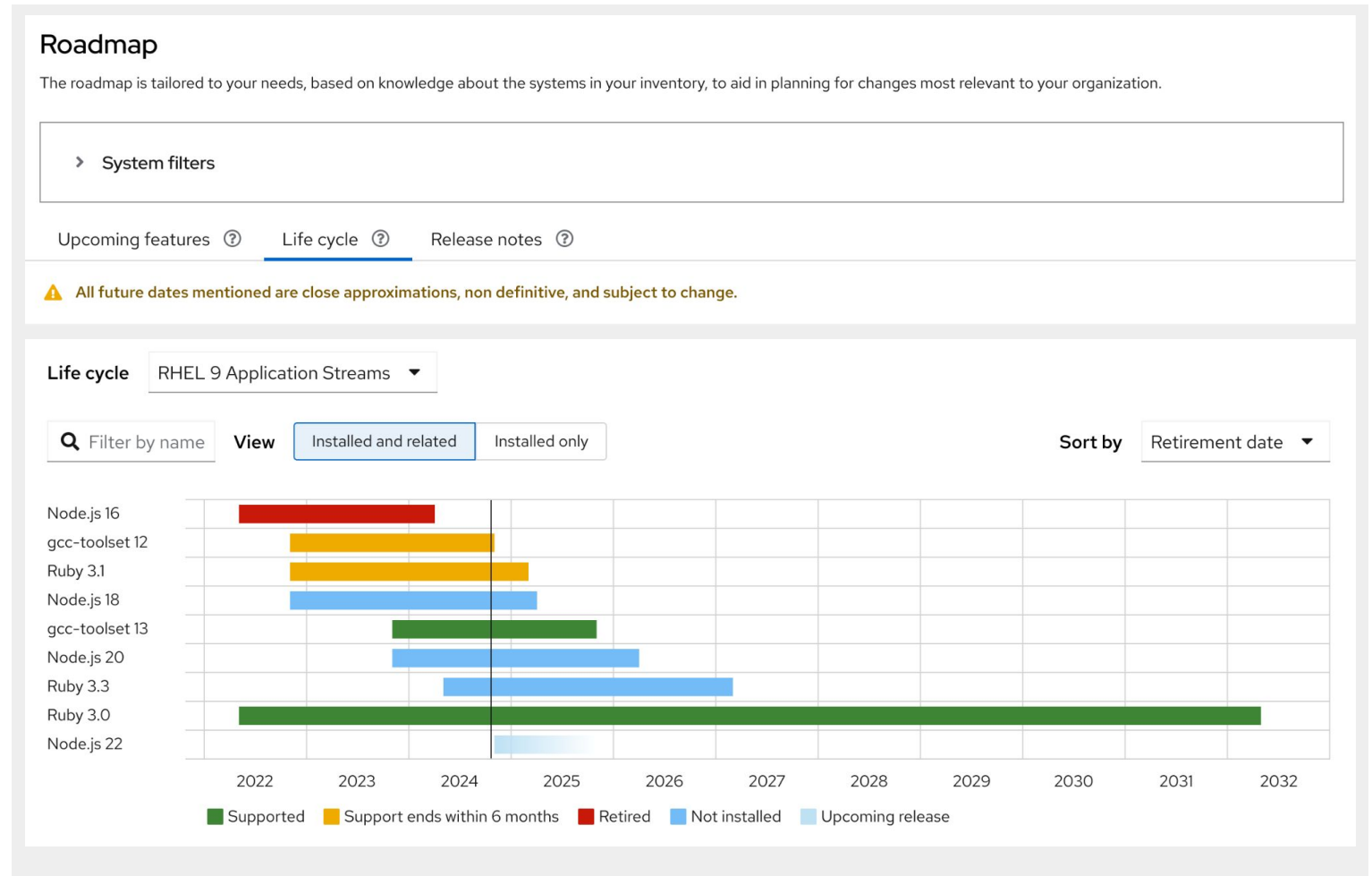
Cost Management
On-Premise within OpenShift
Plus

Potential commercial
certifications for Red Hat
Lightspeed



Red Hat Enterprise Linux and AppStream life cycle information

(Shift Left)



Red Hat Enterprise Linux roadmap

(Shift Left)

Roadmap

The roadmap is tailored to your needs, based on knowledge about the systems in your inventory, to aid in planning for changes most relevant to your organization.

> System filters

Upcoming features ⓘ Life cycle ⓘ Release notes ⓘ

⚠ All future dates mentioned are close approximations, non definitive, and subject to change.

ⓘ Upcoming deprecations

15 upcoming deprecations that could affect your systems

⚠ Upcoming changes

19 upcoming changes that could affect your systems

ⓘ Upcoming additions

30 upcoming additions that could affect your systems


🔍 Name ▾

🔍 Filter by name →

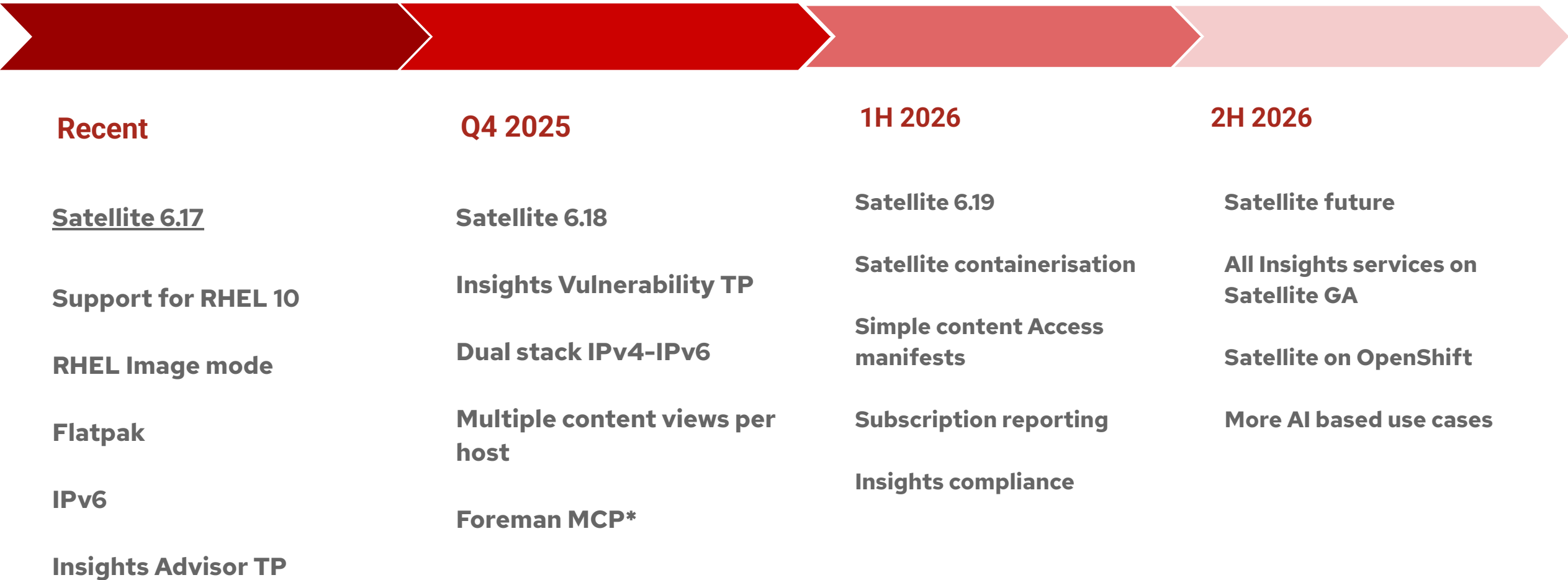
1 - 20 of 150 ▾ < >

| > Name ⌵ | Type ⌵ | Release ⌵ | Release Date ⌵ |
|---|---------------|-----------|----------------|
| > Node.js 22 included in RHEL 9 Application Streams | ⓘ Addition | 9.5 | Nov 2024 |
| > Feature name | ⓘ Addition | 9.5 | Nov 2024 |
| > Feature name | ⚠ Change | 9.5 | Nov 2024 |
| > Feature name | ⚠ Change | 9.5 | Nov 2024 |
| > Feature name | ⚠ Change | 9.5 | Nov 2024 |
| > Feature name | ⓘ Deprecation | 9.5 | Nov 2024 |

24



Red Hat Satellite Roadmap



Last minute Bonus !

For testing in a homelab environment only:

```
yaml

foreman:
  url: https://satellite.homelab.com
  username: admin
  password: <password>
  ssl_verify: false # Only for testing!
```

Where is the MCP Server Running?

- If it's in a container, you need to mount the certificate into the container
- If it's running locally, ensure the certificate path is accessible
- Check the MCP server logs for more details about the configuration

Once you've configured the certificate correctly, I'll be able to query your systems and provide you with:

- Complete host inventory
- Operating system distributions
- Content view assignments
- Patch and errata status
- Compliance reports
- Host health and check-in status

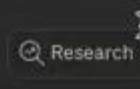
Would you like help troubleshooting the certificate configuration, or do you need guidance on setting up the MCP server properly?



   Retry 

Claude can make mistakes. Please double-check responses.

Reply to Claude...



Sonnet 4.5 





Connect

Thank you



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facebook.com/redhatinc



youtube.com/user/RedHatVideos



twitter.com/RedHat

