Abstract

These release notes highlight the latest features and improvements implemented in the Red Hat Insights application and services. Red Hat is committed to replacing problematic language in our code, documentation, and web properties. We are beginning with these four terms: master, slave, blacklist, and whitelist. Because of the enormity of this endeavor, these changes will be implemented gradually over several upcoming releases. For more details, see our CTO Chris Wright’s message.
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PROVIDING FEEDBACK ON RED HAT DOCUMENTATION
CHAPTER 1. ABOUT RED HAT INSIGHTS

Red Hat Insights is a Software-as-a-Service (SaaS) application included with almost every subscription to Red Hat Enterprise Linux, Red Hat OpenShift, and Red Hat Ansible Automation Platform.

Powered by predictive analytics, Red Hat Insights gets smarter with every additional piece of intelligence and data. It can automatically discover relevant insights, recommend tailored, proactive, next actions, and even automate tasks. Using Red Hat Insights, customers can benefit from the experience and technical knowledge of Red Hat Certified Engineers, making it easier to identify, prioritize and resolve issues before business operations are affected.

As a SaaS offering, located at Red Hat Hybrid Cloud Console, Red Hat Insights is regularly updated. Regular updates expand the Insights knowledge archive in real time to reflect new IT challenges that can impact the stability of mission-critical systems.
CHAPTER 2. NOVEMBER 2023

2.1. RED HAT HYBRID CLOUD CONSOLE

2.1.1. Published blogs and resources

Red Hat Insights offers timely blogs and other resources to supplement our official documentation. November’s blogs and resources:

- Blog - Red Hat Insights turns smart statistics into machine learning by Katya Gordeeva and Tomas Dosek
- Blog - New Red Hat Insights feature: On-demand data collection for Red Hat OpenShift by Tomas Remes
- Blog - How to implement a self-healing infrastructure by Ruby Yang

2.2. RED HAT INSIGHTS FOR RED HAT ENTERPRISE LINUX

2.2.1. Insights Client/RHC

End of Life for Basic Authentication for Insights client

Effective February 29th, 2024, the insights-client will no longer support Basic Authentication (authmethod=basic) as an option for connecting a host with Red Hat Insights. For more information, and guidance about how to switch to alternative options, see the Red Hat Insights lifecycle and update page.

2.2.2. Conversions

CentOS 7 pre-conversion analysis and conversion experience launched

On June 30, 2024, CentOS Linux 7 will reach End of Life (EOL), requiring users to migrate to a new operating system to continue receiving updates, security patches and new features. As this date rapidly approaches, determining a path for migration and scope will be key as you work to assign resources and meet completion dates. With a recent update to Red Hat Insights, CentOS 7 users can now:

- Register CentOS Linux 7 systems to display in the Insights inventory list.
- Start a new pre-conversion task at Automation Toolkit > Tasks > Pre-conversion analysis for converting to RHEL to analyze selected CentOS Linux 7 systems, and receive remediation advice so you can proactively handle issues that could complicate or prevent conversion to RHEL.
- Run a new conversion task at Automation Toolkit > Tasks > Convert to RHEL from CentOS Linux 7 after you resolve issues identified by the pre-conversion analysis to complete the conversion to RHEL.

Example of output from running a conversion task in Insights
You can find all Insights tasks at Automation Toolkit > Tasks.

You can learn more about these new features and get started with:

- Simplifying CentOS Linux to RHEL conversions with Red Hat Insights
- How to convert CentOS Linux to RHEL with Red Hat Insights
- Converting from an RPM-based Linux distribution to RHEL using Red Hat Insights

2.2.3. Advisor

New recommendations released

Fourteen new recommendations are available:

- Separate the journal directories for better performance and recoverability of InterSystems IRIS
- Enable FreezeOnError for the integrity and recoverability of InterSystems IRIS database
- The system is unable to boot when missing systemd related components
- The insights-client BASIC authmethod will reach End-Of-Life on Feb 28th, 2024
- The /var/log/messages or /var/log/secure are not writable due to incorrect syslog configuration, file permissions or SELinux context
- The InterSystems product version is older than ideal for top-quality support
- Recommend running SystemPerformance 24-hour daily for InterSystems IRIS
- Kernel panic occurs when cifs filesystems are mounted on the RHEL 8 system due to a bug in the kernel
- Set arbiter to prevent a possible split-brain situation for InterSystems IRIS
- Map the Write Image Journaling (WIJ) disk for better performance of InterSystems IRIS
- Use G1 garbage collector to get better performance for JBoss server
- The system will boot into emergency mode when the os-release file is lost
- Applications failed to create sessions when the maximum session limit is reached
• It takes an unexpected long time for the system to boot due to a known bug in systemd

New InterSystems topic

Red Hat Insights currently has ten Advisor recommendations available for the InterSystems workload. You can find the InterSystems recommendations in a new Advisor topic at Advisor > topics > Intersystems on the Red Hat Hybrid Console. Insights will continue to add InterSystems-focused recommendations to this new topic. To see all Advisor topics, go to Advisor > topics.

2.2.4. Patch

Improved patch reporting for Satellite-managed hosts

You can now check in Satellite-managed hosts with a new `--build-packagecache` flag for better reporting of installable updates. With the flag set, the host will self-report the list of updates that should be installed based on the content available in the Satellite content view to which that system is subscribed. You can find more information in:

• Knowledge-Centered Service (KCS) article: Red Hat Insights shows incorrect patch reporting for Satellite-managed systems.

2.2.5. Subscriptions

Support for new Red Hat Enterprise Linux variants in Subscriptions

The subscriptions service now supports reporting for the following Red Hat Enterprise Linux variants on x86:

• Red Hat Enterprise Linux for SAP
• Red Hat Enterprise Linux Extended Update Support (EUS) Add-On
• Red Hat Enterprise Linux High Availability Add-On
• Red Hat Enterprise Linux Resilient Storage Add-On
• Red Hat Enterprise Linux Extended Life Cycle Support (ELS) Add-On (On-Demand)

2.2.6. Image Builder

Known issue: Insights image builder fails to build RHEL for Edge images when npm is included

When building RHEL 8 images within Insights image builder, you cannot customize your RHEL for Edge image with the npm package. The NPM package manager expects its configuration to be in the `{prefix}/etc/npmrc` directory but the npm RPM packages a symlink in the `/usr/etc/npmrc` directory that links to `/etc/npmrc`. To work around this problem, include the npm package inside of the OSTree system.

Insights image builder now supports building images for the aarch64 architecture

This enhancement to image builder extends support to the aarch64 architecture, which allows you to select the architecture that you want to build. The compatible target images that you can build for the aarch64 architecture are Amazon Web Service (AWS), Bare Metal, and Guest Images.

Support to build images suitable for Windows Subsystem Linux (WSL)
You can use the Red Hat Insights image builder to create an image suitable for Windows Subsystem Linux (WSL). You can use that image to run a Linux environment directly on your Windows machine. You can use most of the command-line tools, utilities, and applications. The kernel is supplied by Microsoft, and developed on WSL2-Linux-Kernel. This is supported only for the Red Hat Enterprise Linux (RHEL) 8 release. For more information, see Create customized RHEL images for the WSL environment.

2.3. RED HAT INSIGHTS FOR OPENS SHIFT

2.3.1. Advisor

Advanced Cluster Manager 2.9 fleet Insights integration

Red Hat Advanced Cluster Manager (ACM) 2.9 has introduced a new overview dashboard, and detailed views that improve navigation, when viewing critical information emitted by OpenShift Container Platform clusters. This revamped experience is similar to the one that Red Hat’s Site Reliability Engineering (SRE) team uses to manage Red Hat clusters.

2.3.2. Cost Management

Security-focused Frequently Asked Questions (FAQ) published

Red Hat Insights cost management service uses its own operator (Cost Management Metrics Operator), to gather and upload data to Red Hat. The data is then processed in its own data pipeline. As a result, there are some differences related to what data is collected, how it is processed and stored. A Frequently Asked Questions (FAQ) article about Cost Management security is available to help answer your questions regarding how the operator handles this data. You can find the FAQ at Cost Management Software as a Service [SAAS]-Security FAQ.

Support for new service account authentication

Project Koku, the upstream of Red Hat Insights cost management, released the Koku Metrics Operator version 3.1.0. This adds support for token-based service authentication, for service accounts in the Hybrid Cloud Console.

Insights expects to release the downstream Cost Management Metrics Operator version 3.1.0 with the upcoming delivery of token-based authentication on the Hybrid Cloud Console.
3.1. RED HAT HYBRID CLOUD CONSOLE

3.1.1. General

Sources and Integrations UI Overhaul

To simplify the user experience and consolidate services, sources and integrations have now been combined into Integrations. You can now connect all integrations (for example, external AWS cloud integration, Slack integration, and so on) in a single place.

Notifications UI Refresh

Previously, notifications were grouped by product family. The notifications service now offers an Overview landing page as a single place to configure all events, as well as a separate page to view events.

3.2. RED HAT INSIGHTS FOR RED HAT ENTERPRISE LINUX

3.2.1. Published Blogs & Resources

- Blog - What’s new in Red Hat Insights cost management in Q3 2023 by Pau Garcia Quiles (October 3, 2023)
- Blog - Exploring Red Hat Insights integration with PagerDuty by Jerome Marc (October 4, 2023)
- Blog - Red Hat Insights Collection for Event-Driven Ansible by Jerome Marc (October 10, 2023)
- Blog - How Red Hat Insights tackles malware head-on by Alessandro Rossi (October 13, 2023)
- Blog - A complete view of systems vulnerabilities using Red Hat Insights by Mohit Goyal (October 24, 2023)

3.2.2. Inventory

Inventory Groups now available

The Inventory Groups feature enables you to set permissions on specific inventory objects, such as inventory groups and systems. You can organize systems inventory into different groups, as well as restrict access to specific users for each group. Once you configure user access, those system permissions take effect across all Insights services.
For more information about configuring inventory groups, refer to Viewing and managing system inventory.

3.2.3. Advisor

New recommendations added

- The performance of InterSystems IRIS server may be impacted when Transparent Huge Pages is enabled.
- Apply hugepages recommendation for better performance of InterSystems IRIS.
- Apply shmax recommendation for better performance of InterSystems IRIS.
- Degraded DNS performance on RHEL 8.5 when Ethernet Controller X710 for 10GbE SFP+ with i40e driver is used.
- The tuned does not start automatically when the OS boots with graphical target mode.
- System hangs due to a known kernel bug in the e1000e driver.
- Application failure occurs when the consumption of file descriptors reaches limit.
- The chrony service cannot resolve NTP server’s hostnames when it does not have the read permission to the /etc/resolv.conf file.
- The sendmail service rejects or queues emails when the system load is high.

3.2.4. Vulnerability

Users can now view CVEs without Errata/Advisories that affect their environment

You can now view and assess CVEs that do not have associated Errata/Advisories, but which could still affect your environment. This capability allows your organization to understand its full exposure to CVEs, and to take the necessary steps to mitigate any risks.

For more information about CVEs without Errata/Advisories, refer to this blog article.

3.2.5. Malware Detection

Ability to disable/enable malware signatures

The Malware service now allows you to disable signatures that are not relevant to your environment, in order to reduce noise and to enable you to focus on important and relevant signatures.

This feature enables your organization to make better-informed decisions about where to focus efforts, as the computing footprint grows and the resources managing the infrastructure shrink.

3.3. RED HAT INSIGHTS FOR OPENSSHIFT

3.3.1. Advisor

Workload recommendations ready for OpenShift Shared Control Plane
The Advisor service offers recommendations that follow best practices for deploying and running managed OpenShift workloads. These recommendations check for correct limit settings, working with budgets, and implementing best practices that do not harm the underlying cluster.

The October release of the Workload recommendations feature supports Red Hat Hypershift, also known as Red Hat Shared Control Plane on AWS. With this release, the Advisor UI can now show recommendations specific to this flavor of managed OpenShift.

3.3.2. Cost Management

Tag inheritance

A common reporting practice involves tagging every (OpenShift and non-OpenShift) resource that an application uses as application=X, and then requesting a cost report based on application=X from Cost Management.

In some cases, the tags did not propagate through the entire tag hierarchy, or the tags were propagated but not exposed. One example of this issue occurred previously, when OpenShift tags were propagated to PVs and PVCs, but the tags were not available in the Cost Management API. OpenShift now propagates all tags to all levels, and exposes them in the API.

AWS external ID authentication

AWS now supports the use of a unique external ID when creating IAM roles with cross-account access, and suggests using the unique ID as a best practice. You create the role in the Cost Management AWS source flow.

Cost Management now supports external ID. When you create an IAM role, the Integrations wizard flow for Cost Management AWS generates a per-customer randomized string for the external ID in AWS. Copy and paste the string into the External ID field.

Create IAM role

To delegate account access, create an IAM role to associate with your IAM policy.

1. From the AWS Identity Access Management console, create a new role.
2. Select another AWS account from the list of trusted entities and paste the following value into the Account ID field:

   589173575009

3. Paste the following value in the External ID field:

   5942670e-3857-4068-bb08-b60d4961d64

4. Attach the permissions policy that you just created.
5. Complete the process to create your new role.

When a source is created, Sources (Integrations) passes along the external ID and the Amazon Resource Name (ARN) role in a message to Cost Management.

Automatic OpenShift source name

To get per-cluster, per-namespace, and per-tag costs in an OpenShift cluster, install the Cost Management Metrics Operator (CMMO) and configure it to submit data to Red Hat.
The CMMO YAML file contains the Source (integration) name, which identifies the cluster in Cost Management. Previously, configuring the operator instance included manually changing the value of name from the default INSERT-SOURCE-NAME to a custom value. Not changing the value of name from the default value caused confusion, as well as difficult debugging issues.

OpenShift Container Platform (OCP) now automatically generates the OpenShift Source name. If you manually set a Source name, the CMMO uses that name; if not, CMMO automatically generates a Source name based on the cluster ID.

**NOTE**

You can manually change the auto-generated name.

To disable automatic Source name creation, change the create_source parameter value in the CMMO YAML file to `false`.

```yaml
create_source: false
name: INSERT-SOURCE-NAME
```
CHAPTER 4. SEPTEMBER 2023

4.1. RED HAT HYBRID CLOUD CONSOLE

4.1.1. Published Blogs & Resources

- Blog: Deploy containerized applications with Red Hat Insights Edge Management and Podman by Matthew Yee (September 12, 2023)
- Blog: Managing SAP servers with Red Hat Insights by Ricardo Garcia Cavero (September 15, 2023)
- Video: Event-Driven Ansible using Red Hat Insights by Nuno Martins (September 15, 2023)
- Blog: Remote host configuration and management for Red Hat Enterprise Linux by Joerg Kastning (September 20, 2023)
- Blog: Build and launch Red Hat Enterprise Linux images in Oracle Cloud Infrastructure by Terry Bowling (September 21, 2023)
- Video: Red Hat Insights integration with Splunk by Jerome Marc (September 25, 2023)
- Video: Red Hat Insights integration with Event-Driven Ansible by Jerome Marc (September 26, 2023)

4.1.2. Notifications

Daily email notification time can now be configured per account

The time at which daily email notifications are sent out every day is now configurable under Hybrid Cloud Console > the Settings icon (⚙) > Settings > Notifications for OpenShift, Red Hat Enterprise Linux, and Console. A new Settings tab allows each account to override the default 00:00 UTC time with the time of their choice. This enhancement was implemented based on feedback received from EMEA customers wishing to receive their daily notifications every morning before they start work.

User Preferences are consolidated for centralized configuration

All settings related to email notifications are now consolidated under Hybrid Cloud Console > User Preferences > Email Preferences. Weekly report configuration and event notifications (e.g. instant and daily digest) can all be configured in the same location. This enhancement was implemented based on feedback received from customers for ease of use.

4.2. RED HAT INSIGHTS FOR RED HAT ENTERPRISE LINUX

4.2.1. Advisor

New Recommendations

- Kernel panic will occur when the qxl driver is being used on the RHEL 8 system after reboot due to a bug in the default kernel
- Apply swappiness recommendation for better performance of InterSystems IRIS
- Squid service listening on IPv6 gives slow access to its client even when ipv6 is disabled in sysctl
The system is unable to boot when missing glibc related components

Kernel panic occurs when AMD processors with IOMMU enabled are used due to a known kernel bug

Kdump fails to dump over NFS or SSH on a virtual machine when FIPS is enabled due to a known bug in kexec-tools

VMware guest performance decreases and shows as vulnerable to RETBleed due to a known kernel bug

The CUPS print requests are rejected when the "MaxJobs" limits have been reached

Some applications will show errors or fail when they are not able to write to /tmp with the appropriate permissions

Kernel panic will occur on heavy memory fragmentation system when ib_port module is loaded due to a known kernel bug

LVM commands that change the Volume Group configuration will fail to run when the LVM metadata area is not big enough

4.3. RED HAT INSIGHTS FOR OPENSHIFT

4.3.1. Advisor

Deployment Validation Operator (DVO) to be released on Red Hat OpenShift for AWS (ROSA) hosted control planes (hypershift)

DVO, serving Insights workload analysis, is now available on managed clusters and is ready to be shipped with ROSA Hosted Control planes alongside OpenShift 4.14.

Customers will also benefit from seeing user-friendly namespace names/project names instead of UIDs. This will allow customers to easily recognize and navigate to projects that need their attention. All recommendations are of course coming with actionable steps on how to prevent or resolve detected issues.

Deployment Validation Operator data de-anonymization

On our route to better user experience, DVO for on-premise customers allows opting-in for a non-anonymized form of data collection. This reduces the number of steps required to apply fixes suggested by a recommendation.
CHAPTER 5. AUGUST 2023

5.1. RED HAT HYBRID CLOUD CONSOLE

5.1.1. Published Blogs and Resources

- Blog - Red Hat Insights Compliance: Introducing new customization options for policies by Mohit Goyal and Marley Stipich (August 2, 2023)

- Blog - Stay on top of systemd state with Red Hat Insights by Stefan Bunciak (August 2, 2023)

- Blog - Improve your cloud cost visibility with Red Hat Insights cost management feature by Chris Hambridge (August 22, 2023)


- Blog - Livestream Recordings - Modernizing RHEL Management Mini-series
  - Episode 2: Build and Launch by Eric Hendricks and John Spinks (August 1, 2023)
  - Episode 3: Simplifying Patch Management by Eric Hendricks and John Spinks (August 8, 2023)
  - Episode 4: Three Services to Operationalize RHEL by Eric Hendricks and John Spinks (August 15, 2023)
  - Episode 5: Protecting your systems by Eric Hendricks and John Spinks (August 22, 2023)
  - Episode 6: Regulatory Compliance by Nate Lager and John Spinks (August 29, 2023)

5.1.2. General

New RHEL management capabilities are GA

At Red Hat Summit, you heard the announcement about the expansion of Insights beyond analytics. Red Hat designed the new and enhanced management capabilities to help reduce enterprise Linux complexity across the hybrid cloud without slowing innovation. With this release, all the Insights features and enhancements announced at Red Hat Summit are generally available (GA).

Additional resources

- Blog - New Red Hat Insights capabilities available for managing Red Hat Enterprise Linux
  Describes how Red Hat Insights capabilities work with the ongoing journey to enable better end-to-end RHEL management.

5.2. RED HAT INSIGHTS FOR RED HAT ENTERPRISE LINUX

5.2.1. Advisor

Export recommendations for a single system
You can now export a list of recommendations for a single system to either CSV or JSON. This provides an easy way to create a to-do list if you have not adopted a more automated means of addressing found issues.

Several new recommendations are available

- XFS writes are limited by quota when warn counter exceeds the upper limit
- Performance issue occurs when the "num_cgroups" for blkio in cgroups keeps increasing due to a known bug in the kernel on RHEL 8.6 and 8.8
- System hang occurs when audit backlog limit is exceeded on RHEL 8
- The yum command fails when the release version cannot be detected
- The sshd sessions will be very slow when the available entropy is low on virtual machines * The setroubleshootd process is consuming high memory due to a known bug in setroubleshoot-server
- The system is unable to boot when lvm2 package is missing
- The change of team interface MACADDR makes network packages with old MACADDR sent to it dropped due to a bug in NetworkManager

5.2.2. Drift and Policies

New systemd facts available for Drift and Policies

When setting up baselines and comparisons for system drift, or creating internal system policies, now you can access a set of systemd facts. These facts include systemd.failed, systemd.jobs_queued, and `systemd.state.

5.2.3. Image Builder

Now Generally Available (GA)

With the latest Insights Image Builder, you can add third-party Red Hat Package Manager (RPM) repositories to include third-party software and deploy hosts to the cloud easily by launching custom image builds directly to AWS, Azure, and Google Cloud.

5.3. RED HAT INSIGHTS FOR OPENSHIFT

5.3.1. Advisor

Update Risk - Generally Available (GA)

Update Risk is now available in the Red Hat Hybrid Cloud Console for all OpenShift customers as part of your OpenShift subscription. Update Risk (previously available in the preview environment as “Upgrade risk”), allows customers with self-managed OpenShift clusters to assess the state of your clusters before running updates. A machine model trained on data from all connected clusters shows a list of known risks on your cluster. This includes failing operator conditions, alerts, and other metrics. Insights provides you with instructions on removing these blockers on your path to a smoother and safer update.
Additional information

- Blog: Red Hat Insights Upgrade Risks for Red Hat OpenShift
- Product documentation: Using update-risk assessment to identify and mitigate cluster-update risks

5.3.2. Cost Management

Report vCPU count, RAM, and storage capacity

By default, Cost Management distributes costs based on effective CPU usage. When an OpenShift cost model is added, you can change this to distributing based on requested, used, or effective CPU or RAM usage, for the costs that Cost Management is aware of.

IT workloads and departments always incur additional costs: subscriptions, external services with variable costs (e.g., Google Maps), outsourcing, cost of the IT employees, etc. Different customers adopt different policies to distribute these costs. One popular way of distributing costs is to “do the same thing Cost Management does for OpenShift workloads,” which requires knowing how many CPU cores and memory the OpenShift nodes and clusters had and used so that those numbers can be extended for other costs.

You could approximate these values by dividing the CPU core-hours and RAM GB-hours and dividing by the number of hours in the month, but if using autoscalers, those numbers would not be right. Insights now reports the number of CPU cores and RAM and informs users this is the maximum value, since autoscalers might have changed the capacity at any given time.
Settings page: redesigned and moved

The Settings page is now inside Cost Management for easier discoverability. The Tag Management and Cost Categories subpages also have enhancements. The cost models page is now inside the Settings page too. While moving the Settings page inside Cost Management, Insights also relaxed the permissions so only Cost Price List Administrator permissions are now needed. In the past, modifying the Cost Management Settings required Hybrid Cloud Console-wide Organization Administrator permissions, which made some customers uncomfortable because tag managers had too much control and visibility.
Option to show overhead costs

When running your workloads on OpenShift, you are likely interested in the cost of the workload, but you also need to consider the cost of the control plane and the cost of the unallocated capacity (the “overhead costs”). Insights Cost Management enhanced cost models and is now reporting those costs as of early 2023. With this update, you can distribute the costs, and also dynamically switch to viewing costs with or without overhead cost distribution.

Large customer data pipeline

Many organizations that use Insights Cost Management are big customers, but no matter your infrastructure size, Insights can handle your needs.

The latest release of Insights Cost Management implements separate pipelines for different customer sizes so that Cost Management processes data from all customers and is responsible, even if some large customers decide to send data for a whole month for a thousand clusters at the same time.

Additional resources

Blog: What’s new in Red Hat Insights Cost Management in Q3 2023 by Pau Garcia Quiles (October 3, 2023)
CHAPTER 6. JULY 2023

6.1. RED HAT HYBRID CLOUD CONSOLE

6.1.1. General

Activation Keys with common workload support

Admins can now create and manage activation keys that enable repositories and set a release version during registration to support common workloads, such as SAP® or Extended Update Support (EUS). Because admins are not limited to just those workloads, they can include any Red Hat repository their subscriptions allow them to access, such as CodeReady Linux Builder, to be enabled during registration.

6.2. RED HAT INSIGHTS FOR RED HAT ENTERPRISE LINUX

6.2.1. Advisor

The advisor service has new recommendations.

New Recommendations

- Cluster integrity cannot be guaranteed with only fence_kdump agent configured in a High Availability cluster
- Kdump fails to work when the wrong fencing level is configured for fence_kdump in a High Availability cluster
- Boot failure occurs when FIPS mode is enabled on system with AMD EPYC processors
- Boot failure occurs when FIPS mode is enabled on an edge computing system with AMD EPYC processors
- The audit service does not generate any events with "exit" filter rules on RHEL 8.7 and 9.1 systems
- The audit service does not generate any events with "exit" filter rules on RHEL 8.7 and 9.1 edge computing systems
- Red Hat discontinues maintenance and fixes for older minor versions of Red Hat JBoss Enterprise Application Platform version 7
- The Satellite Capsule or repository sync failed when Ignore SRPMs is set to True with the Complete Mirroring policy for a repository
- The Satellite Capsule or repository sync will fail when Ignore SRPMs is set to True with the Complete Mirroring policy for a repository
- The High Availability cluster will fail to form membership with the totem token set to 30s or longer when some node is get fenced
- The watchdog rebooted the edge computing system after the fence_scsi/fence_mpath binary failed with a return code 1 in a Red Hat High Availability cluster
- The watchdog rebooted a node after the fence_scsi/fence_mpath binary failed with a return code 1 in a Red Hat High Availability cluster
- Kernel panic occurs on reboot when mei_wdt module is loaded due to a known kernel bug
- Kernel panic occurs on reboot when mei_wdt module is loaded on an edge computing system due to a known kernel bug
- System hang occurred because CIFS is used on RHEL 9.2 system with kernel version prior to 5.14.0-284.18.1.el9_2
- The system will hang when using CIFS on this RHEL 9.2 system with kernel version prior to 5.14.0-284.18.1.el9_2
- System hang occurred on the RHEL 9.2 edge computing system because CIFS is used with kernel version prior to 5.14.0-284.18.1.el9_2
- The system will hang on the RHEL 9.2 edge computing system when using CIFS with kernel version prior to 5.14.0-284.18.1.el9_2
- The bnxt_en ports fail to boot when they are configured in bonding or team and managed by NetworkManager
- The CUPS job files run out of free space or inodes when setting "MaxJobs 0"
- The sshd sessions get hung or timed out because of the high CPU utilization and load average when sshd processes are running simultaneously

Export recommendations for a single system

You can now export a list of recommendations for a single system to a CSV or JSON file format. This provides an easy way to create a to-do list if you have not adopted a more automated way of addressing found issues.

6.2.2. Compliance

Customize your SCAP policies by editing the values for specific rules

Red Hat Insights released a feature that allows you to further customize your SCAP policies by editing the values for specific rules defined within the policy. Previously, you only had an option to select rules to include or exclude in the policy, and now you can specify which values those rules should check the systems in the policy against, per their specific requirements. This ability gives increased flexibility to run an efficient compliance program and provides more accuracy. The blog article, Red Hat Insights Compliance: Introducing new customization options for policies, provides additional details on the new feature and its value to you.
CHAPTER 7. JUNE 2023

7.1. RED HAT HYBRID CLOUD CONSOLE

7.1.1. Published Blogs & Resources

- Blog - Get the most out of Red Hat Enterprise Linux in the cloud by Nate Lager (June 26, 2023)

7.1.2. General

Certified collection for Event-Driven Ansible is now available

Red Hat Insights collection for Event-Driven Ansible is now certified and available (v1.0.0) on Automation Hub. The collection provides a consistent way to ingest and handle incoming events from Red Hat Insights as an event-source plugin for Event-Driven Ansible. It also provides examples for creating ServiceNow incident tickets in response to events from the Insights advisor, vulnerability, and compliance services. Contributions are welcome on the associated upstream Ansible Galaxy project.

Additional resources

- Red Hat Automation Hub: Red Hat Insights collection for Event-Driven Ansible
- Product documentation: Configuring Event-Driven Ansible integration with the Red Hat Hybrid Cloud Console
- List of Ansible Automation Platform Certified Content

7.2. RED HAT INSIGHTS FOR RED HAT ENTERPRISE LINUX

7.2.1. Advisor

Insights widget now available on KB articles

In addition to its availability for KCS solutions, the Insights can detect this issue widget for KB articles serves as a basis for Insights Advisor recommendations. Clicking on the widget leads you to the advisor service recommendation in the Red Hat Hybrid Cloud Console. See an example by using the following link: https://access.redhat.com/articles/3671571.

New Recommendations

- System hangs with soft lockup warnings when using an incompatible built version of third-party drbd module with the running kernel
- Audit events were dropped frequently because the audit event dispatcher queue limit has been reached
- The integration of Red Hat Virtualization (RHV) with Satellite is deprecated and will be removed in a future release
- The kdump kernel panic occurs when it captures the contents of the crashed kernel due to a bug in kernel
● The system will hang with soft lockup warnings because the version of the third-party module mlx5_core is incompatible with the running kernel

● I/O operations on SMB shares will not work as expected after reboot when the SMB share path has a trailing slash due to a known regression bug in the default kernel

● Kernel panic occurs when the NFSv4 server service is shutting down and the exports cache is flushed at the same time due to a bug in kernel

● Initramfs and grub entries cannot be generated after installing kernel packages when /etc/machine-id is missing or empty

● System hang or high system load occurred because of running kernel-4.18.0-477.10.1.el8_8

● The system will hang with soft lockup warnings because the version of the third-party module mfe_aac is incompatible with the running kernel

7.2.2. Compliance

New functionality allows users to triage their compliance service reports so that they can more easily identify systems in a given policy that have high/medium severity rules that are failing. Before the release of this feature, users needed to dig deeper into each system’s report to determine the severity of each rule and pass/fail rate. This feature allows users to perform this analysis in bulk.

7.3. RED HAT INSIGHTS FOR OPENSHPIFT

7.3.1. Cost Management

ROSA on AWS GovCloud supported

Cost Management now supports ROSA running on AWS GovCloud. The setup and experience are similar to vanilla AWS.

7.3.2. Vulnerability

The name of the service has changed

The vulnerability service for Insights for OpenShift has been renamed to Vulnerability Dashboard and a link has been added to point users to Red Hat Advanced Cluster Security for Kubernetes (ACS) to promote ACS as the comprehensive solution for managing vulnerabilities on OpenShift.
PROVIDING FEEDBACK ON RED HAT DOCUMENTATION

We appreciate and prioritize your feedback regarding our documentation. Provide as much detail as possible, so that your request can be quickly addressed.

Prerequisites

- You are logged in to the Red Hat Customer Portal.

Procedure

To provide feedback, perform the following steps:

1. Click the following link: Create Issue

2. Describe the issue or enhancement in the Summary text box.

3. Provide details about the issue or requested enhancement in the Description text box.

4. Type your name in the Reporter text box.

5. Click the Create button.

This action creates a documentation ticket and routes it to the appropriate documentation team. Thank you for taking the time to provide feedback.