

Insights for OpenShift

Understand your infrastructure

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Product Management,
Insights & Connected Customer

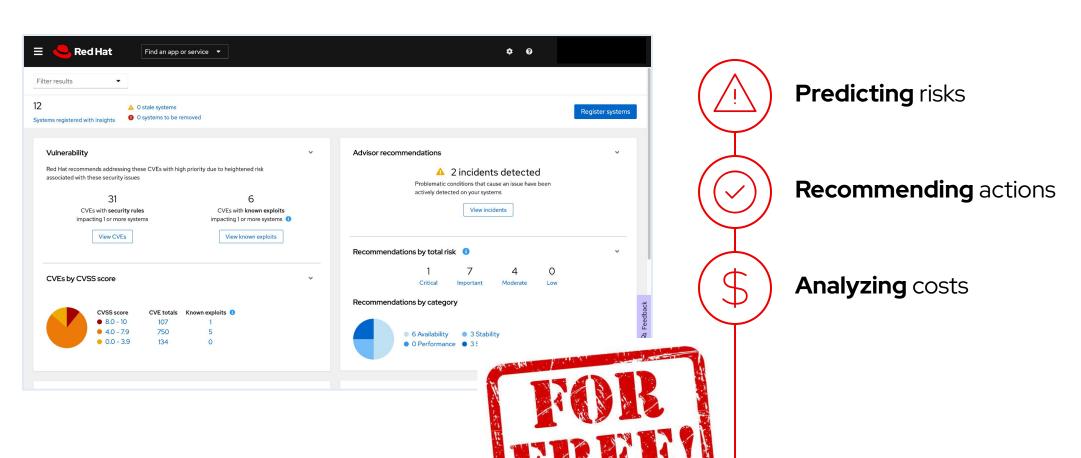
Jan Zelený

Engineering Management,
Connected Customer



What is Red Hat Insights?

Helping you better manage your hybrid and cloud environments





What does Red Hat Insights do?

A cloud analytics platform that helps you better manage your hybrid and cloud environments







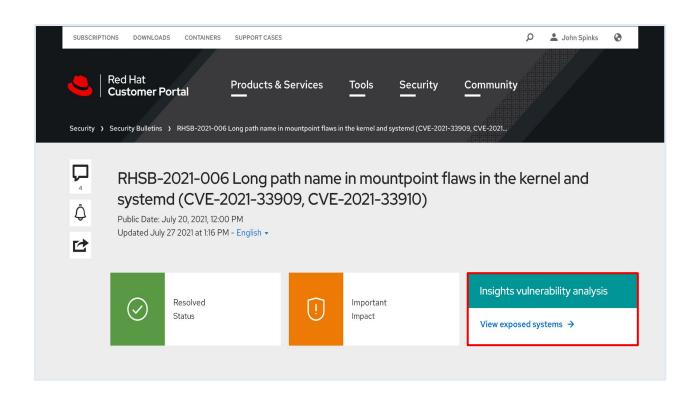


- ► **Gathers** configuration and utilization data from your Red Hat® products
- Analyzes the data based on Red Hat knowledge and expertise
- Generates and prioritizes insights for you to take action

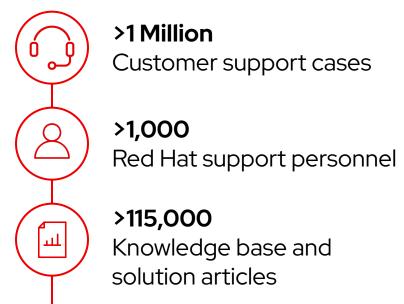


How does Red Hat Insights help me?

Use Red Hat's expertise and knowledge to evaluate your systems



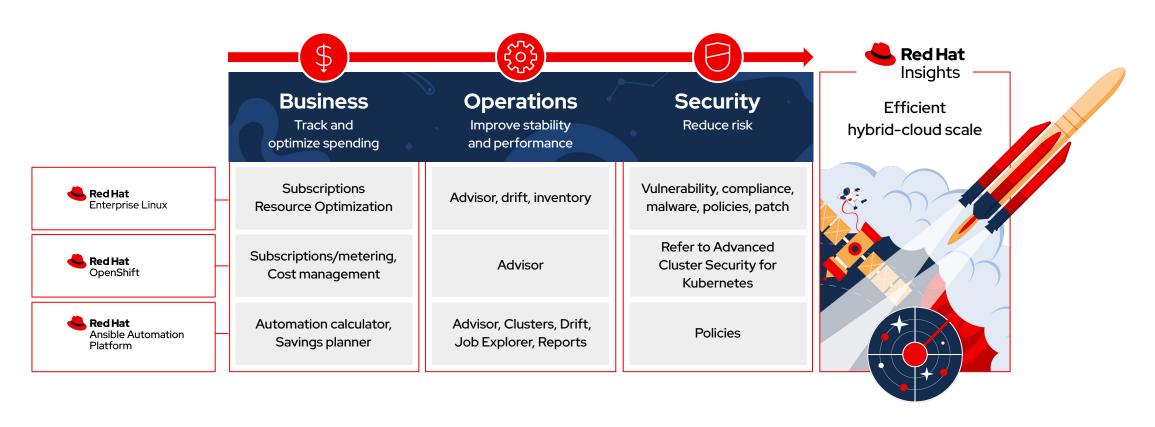
Red Hat subscriptions include knowledge of:





Red Hat Insights

Aligning themes to services across platforms

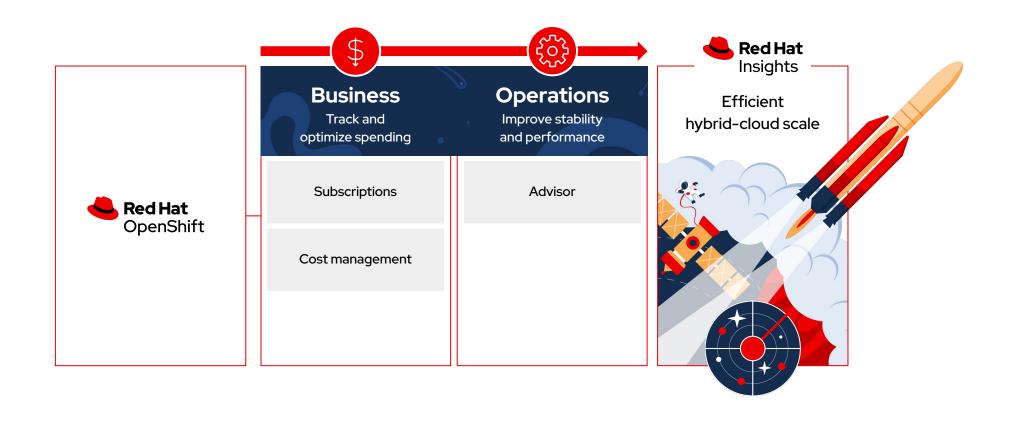




Red Hat Insights for Red Hat OpenShift



Overview of Red Hat Insights services for Red Hat OpenShift





Subscriptions

Frictionless cluster scaling & account-level visibility of multi-cluster usage

- Account level view of subscription utilization
- Automatic utilization reporting for connected clusters.
- Simple cluster and multi-cluster scaling



Subscriptions: Awareness of subscription utilization across your entire estate **OpenShift Container Platform** Take a tour Monitor your OpenShift Container Platform usage for both Annual and On-Demand subscriptions. Learn more about Subscriptions reporting 🔀 Filter by SLA ▼ On-Demand subscriptions ¹ 0 core hours used This month ▼ Annual subscriptions 6 Daily ▼ Cores ▼ 4K 3K 2K 1K Jul 1 Jul 6 Jul 11 Jul 16 Jul 21 Jul 26 Jul 31 Jun 6 Jun 11 Jun 16 Jun 21 Jun 26 Jul 1 Jul 6 Core hours Subscription threshold Current systems Current systems Filter by name 1-100 of 473 ▼ 〈 > Filter by name Name Last seen 1 f5078cce-0fb6-4afe-bfbf-05b349edbee4 16 15 hours ago



Business

Cost Management

Helps you visualize and distribute Red Hat OpenShift costs into meaningful items.

- Cost visibility
- Cost allocation
- Change developers and operator behaviours

On premise, on clouds, on demand, or multicluster...





A joint report from CNCF and the FinOps Foundation: (June 2021)

- 68% of companies using Kubernetes report costs increasing (half of them more than 20%)
- The majority (90%) of costs come from compute and memory
- 24% of companies do not monitor costs at all. 44% rely on monthly estimates
- Only 13% have accurate showbacks, only 14% have chargeback programs

CONCLUSION: The majority of companies using Kubernetes can become more cost-efficient.



OpenShift Cost Management SaaS

Included with OCP 4.3+, GA since May 2020



Modeling costs cloud and on-prem clusters





Support for cost models based on cloud prices, markups and metrics for any OCP.

Tag based rating

OpenShift on Cloud Cost Visibility and Distribution

Microsoft Azure

Provide insights about how OpenShift costs are distributed. Map cloud infrastructure costs from multiple accounts

Google Cloud Platform



Filter and group using hierarchical information, labels and tags

Cost explorer (time based views)

End of the month forecasting



Cost management: Show how resources contribute to costs Cost Management Overview ② OpenShift Infrastructure Perspective All ▼ All OpenShift cost 1-6 July Top clusters Top projects \$6,677.65 openshift-kube-apiserver \$1,480.28 (22.17%) All OpenShift cumulative cost comparison (\$USD) ▼ openshift-monitoring \$1,242.51 (18.61%) openshift-etcd \$510.39 (7.64%) 72 Others \$3,444.48 (51.58%) All Projects Cost (1-6 Jul) Infrastructure cost (1-30 Jun) Infrastructure cost (1-31 Jul) Cost (1-30 Jun) Cost forecast (6-31 Jul) Infrastructure forecast (1-31 Jul)



Business

Advisor

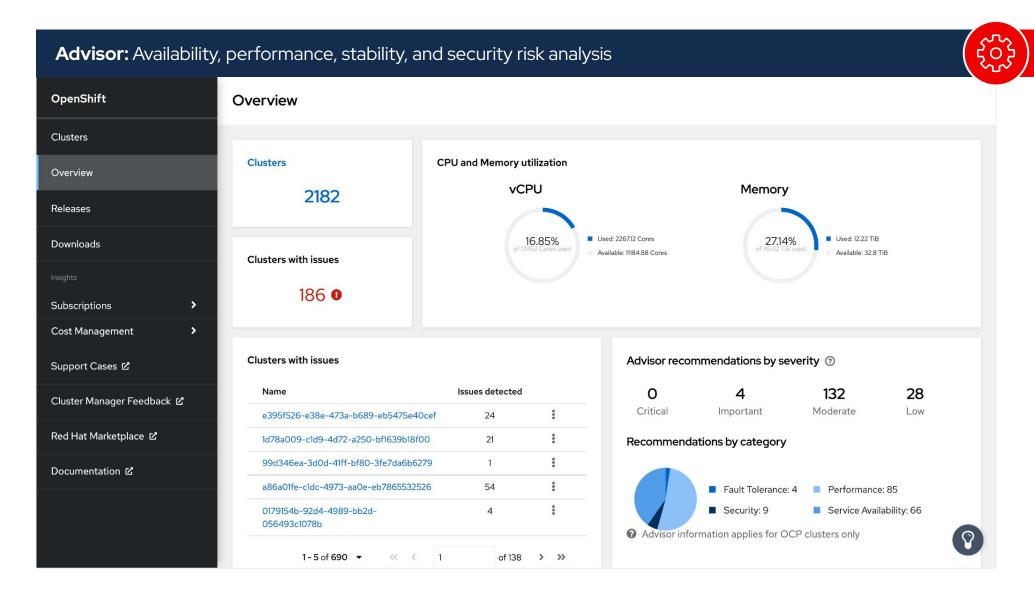
Identifies availability, performance, stability, and security risk analysis

- Analyzes <u>Remote Health</u> (Insights + Telemetry) data to provide recommendations
- These recommendations cover everything from the OpenShift core layer up to the services and application layer.
- Provides predictive findings and prescriptive information on how to resolve.
- Integrates with Notifications, OpenShift WebConsole and Advanced Cluster Manager

Coming soon..

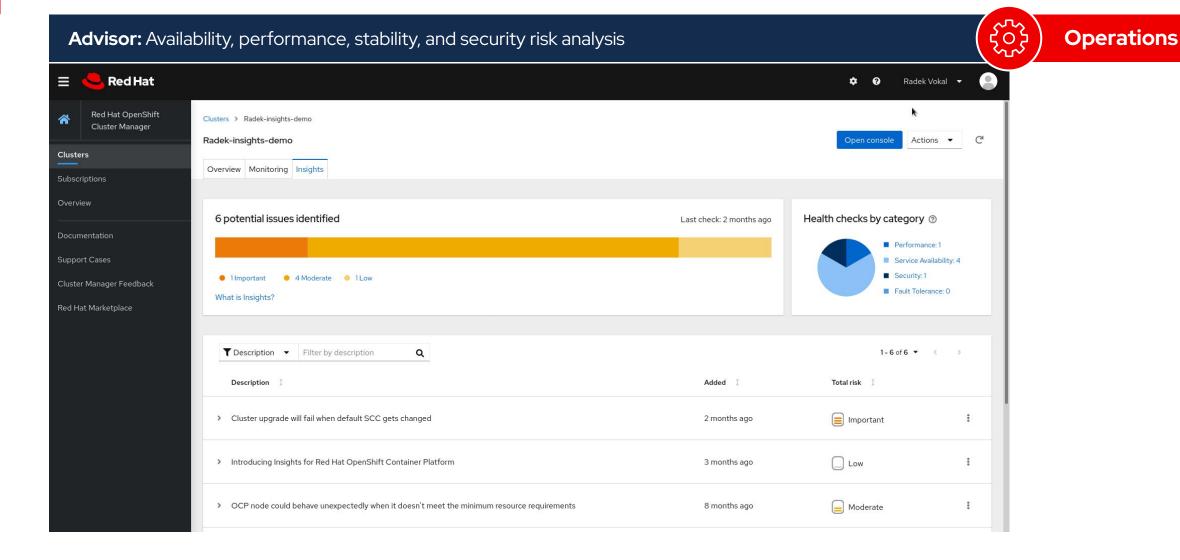
New Advisor view in beta







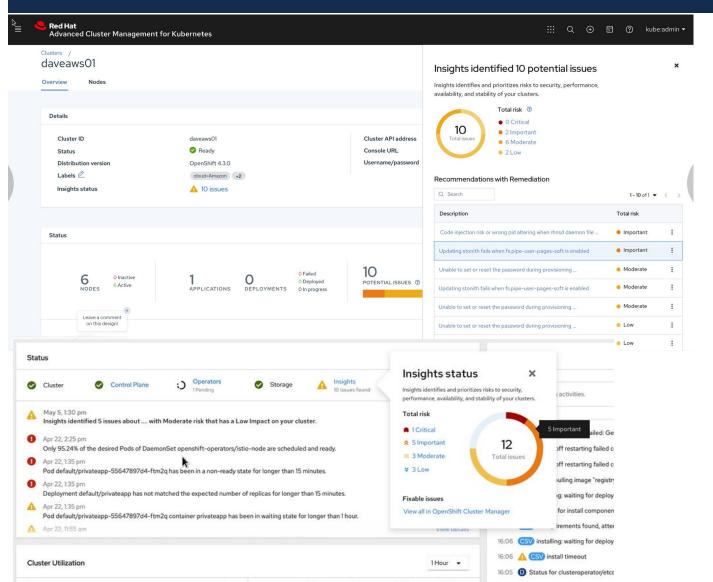
Operations

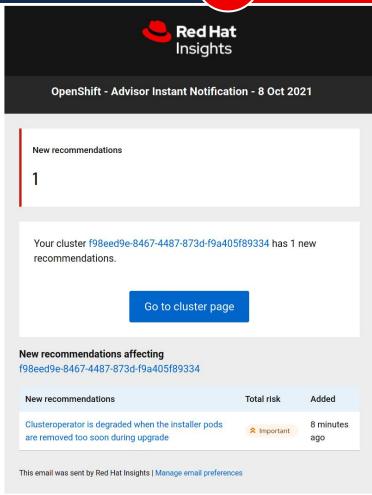




Advisor: Integrates with OpenShift WebConsole, Notifications and Advanced Cluster Manager









Remote Health

Improves Support efficiency, impacts Product decisions for connected clusters

- ► Faster support cycle support has detailed cluster analysis data and fleet matching data for each support case
- Safer upgrades remote health data used to analysis cluster upgrade edges and prevent potential upgrade failures
- Product decisions product review fleet level analysis to prevent issues,
 improve product quality and prioritize new features



Support efficiency: Fast support turnaround for connected clusters



Problem Statement

kubelet degraded

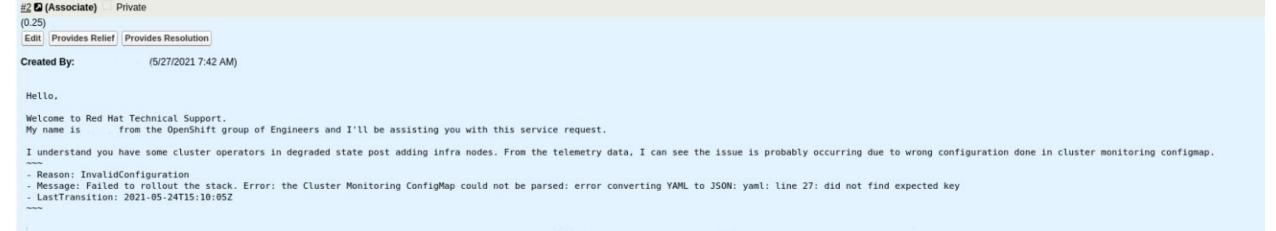
Description

What problem/issue/behavior are you having trouble with? What do you expect to see?

Recently we added infra nodes by using worker machine set and moved components like Router, image registry and monitoring after that some operators showing degraded .

cluster operator degraded, cluster operator down and kubelet , version this things are down

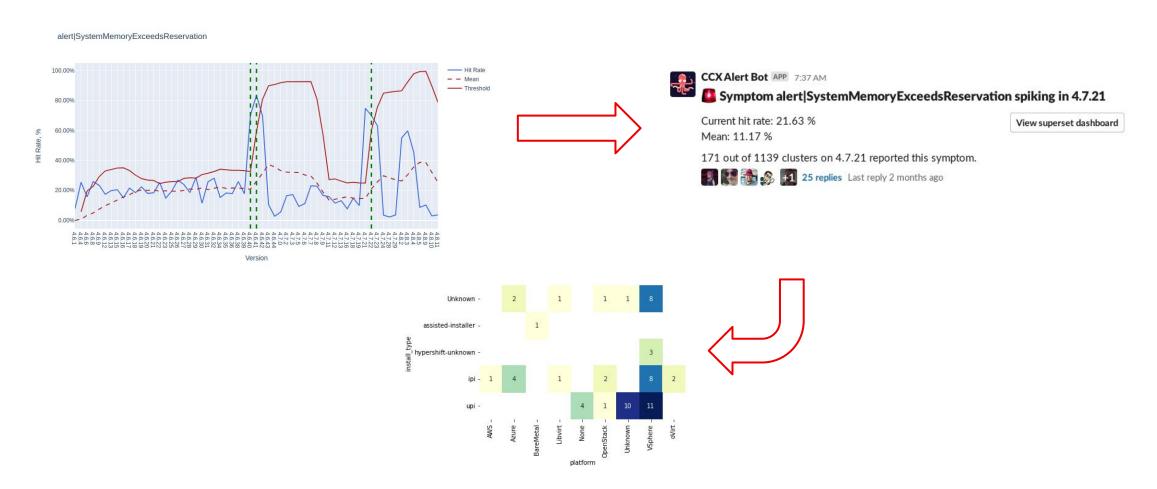
Where are you experiencing the behavior? What environment? openshift container platform





Product decisions: Alerts on fleet issues, detailed platform information, immediate engineering reponse







Red Hat Insights Hear from Insights users









"I would have never seen that without [Red Hat] Insights."

John LemaySystems Engineer
Greenway Health









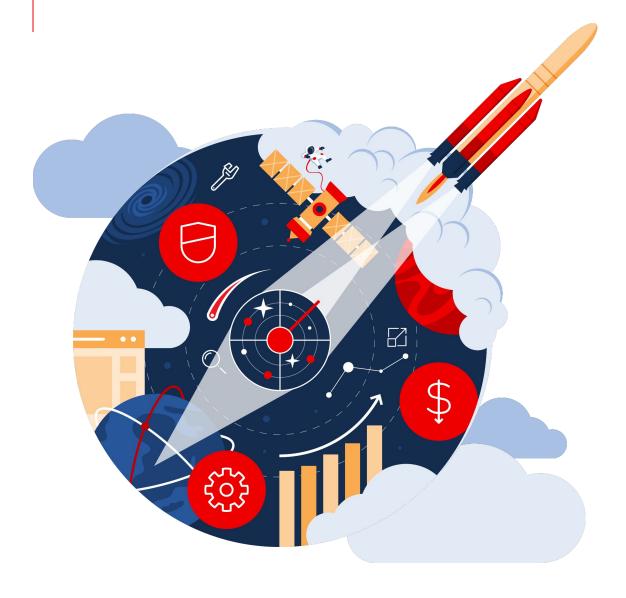


"I relied on the application team... Now I just look at [Red Hat] Insights."

John T Mills
Infrastructure Architect
Graybar Electric Company







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