

Red Hat Insights for OpenShift1-latest

Assessing security vulnerabilities in your OpenShift cluster using Red Hat Insights

Using Insights Vulnerability dashboard to assess cluster exposure to CVE vulnerabilities

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Abstract

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CHAPTER 1. OVERVIEW OF RED HAT INSIGHTS FOR OPENSHIFT VULNERABILITY DASHBOARD SERVICE

The Red Hat Insights for OpenShift Vulnerability dashboard service provides information about the exposure of your OpenShift cluster infrastructure to Common Vulnerabilities and Exposures (CVEs).

CVEs are security exposures or flaws identified in publicly-released software packages. Using the Vulnerability dashboard service, you can make assessments about, and perform comprehensive monitoring of, the exposure of your clusters to CVEs, enabling you to better understand, prioritize, and triage the highest risks posed to your organization. The Vulnerability dashboard provides CVE data for:

- Your OpenShift cluster infrastructure
- Some Red Hat products hosted on Red Hat marketplace



NOTE

The Vulnerability dashboard service does not provide CVE data about the workloads that are running on the clusters.

You can interact with, triage, and assess the CVEs that might affect your clusters through

- a CVEs list view (shows a detailed view of CVEs, where you can view, sort, and filter to get more details about CVEs for affected clusters)
- a Clusters list view (shows a detailed view of vulnerable clusters, where you can view, sort, and filter to get more details about affected clusters)



IMPORTANT

Red Hat does not determine whether any of your connected OpenShift clusters have been exploited. The Vulnerability dashboard service identifies CVEs that might pose a risk to clusters and images in your OpenShift Container Platform environment.

Additional resources

- Getting Started with Red Hat Insights Vulnerability for OpenShift
- Information about CVEs on mitre.org

1.1. ABOUT COMMON VULNERABILITIES AND EXPOSURES (CVES) IN VULNERABILITY DASHBOARD

You can use Vulnerability dashboard to identify Common Vulnerabilities and Exposures (CVEs) affecting your OpenShift clusters, and to help you understand the potential risks to your clusters.

You can use the visibility of CVEs affecting your OpenShift clusters to prioritize your most critical issues.



IMPORTANT

Vulnerability dashboard does not contain every CVE included in the list of entries at https://cve.mitre.org. Only CVEs with Red Hat-issued security advisories (RHSAs) are included in Vulnerability dashboard.

Additional resources

- What is a CVE
- Information about CVEs at mitre.org
- Explaining Red Hat Errata

1.2. DATA COLLECTION AND SECURITY

Red Hat Insights does not collect identifying information, such as user names, passwords, or certificates. See Red Hat Insights Data & Application Security for information about Red Hat Insights data collection and controls.

Additional resources

- About remote health monitoring
- Showing data collected by remote health monitoring
- Opting out of remote health reporting

CHAPTER 2. DETERMINING THE EXPOSURE OF YOUR OPENSHIFT INFRASTRUCTURE TO CVES

The two primary starting points for determining the exposure of your OpenShift infrastructure to CVEs in the Red Hat Hybrid Cloud Console are:

- Red Hat Hybrid Cloud Console > OpenShift > Vulnerability > CVEs , also referred to as CVEs list view. This view is your starting point for getting information about a CVE.
- Red Hat Hybrid Cloud Console > OpenShift > Vulnerability > Clusters, also referred to as Clusters list view. This is your starting point for getting information about a cluster.

From the CVE and Cluster list views, you can navigate to two additional views,

- CVE details view
- Cluster details view

that offer more detailed information.



NOTE

The names of these views are unwritten, and are used to provide a framework that helps guide you through navigating through the Insights Vulnerability information.

What you can do in these views

In the four views,

- CVE list view
- CVE details view
- Cluster list view
- Cluster details view

you can view, filter, and sort information. Changing the way you view your results can help you triage and prioritize the exposure to your clusters. Here is a brief overview of the information you can use to better analyze your results:

- CVE list view: CVE ID, Publish date, Severity, CVSS score, Exposed clusters
- CVE details view: Name, Status, Version, Provider
- Cluster list view: Name, Status, Version, CVEs severity, Provider
- Cluster details view: CVE ID, Publish date, Severity, CVSS score

Later sections of this documentation discuss more detail about viewing, filtering, and sorting information in these views.

CHAPTER 3. USING THE CVE LIST VIEW TO DETERMINE WHICH VULNERABILITIES AFFECT YOUR CLUSTER

In the CVE list view, you can triage the CVEs impacting your clusters so that you can take the appropriate actions to protect your organization. You can also focus on a single CVE by clicking on CVE ID to see details that help you understand exactly which clusters are exposed by that CVE.

In the default view of the CVE list view, you see:

- CVE ID: Shows details about the CVE, CVE ID number
- Publish date: Shows the date the CVE was published
- **Severity**: Shows the severity rating (Critical, Important, Moderate, Low, or Unknown) of the CVE
- CVSS base score: Shows the Common Vulnerability Scoring System (CVSS) base score 0-10)
- Exposed clusters: Shows the number of clusters currently affected

From this view, you can filter and sort using this criteria to help you focus on the most critical CVEs affecting your clusters.



NOTE

The default view of the CVE list page shows a default filter selection (**Exposed clusters** and **1 or More clusters**), which shows you those CVEs that affect one or more clusters in your organization. To see all CVEs, including those that do not affect any clusters reported by Vulnerability dashboard, you can click the **X** beside the filters to remove the filter.

3.1. GETTING TO THE CVE LIST VIEW

You can use Vulnerability dashboard to view CVEs affecting your organization to help you see information that helps you achieve your desired security posture.

Prerequisites

- Your Red Hat account and your cluster are registered to the same organization.
- Your account contains connected OpenShift clusters.
- You are logged into the Red Hat Hybrid Cloud Console.

Procedure

- 1. Navigate to the Red Hat Hybrid Cloud Console
- 2. Click OpenShift.
- 3. Click Vulnerability.
- 4. Click CVEs.

If you see a message that reads, "No CVEs found," Red Hat Insights has not found any CVEs that affect your OpenShift infrastructure.

3.2. REFINING THE CVE LIST VIEW RESULTS TO PROTECT YOUR ORGANIZATION

To make the most use of Vulnerability dashboard, you can refine the CVE list view results by:

- Searching for a specific CVE
- Finding information about a specific CVE
- Filtering results in the CVE list view
- Filtering CVEs by severity
- Sorting results in the CVE list view

3.2.1. Searching for a specific CVE

If you know the CVE ID, you can use the filters in the CVE list view to search for details about that CVE.

Prerequisites

- Your Red Hat account and your cluster are registered within the same organization.
- Your account contains connected Red Hat-administered OpenShift clusters.
- You are logged into the Red Hat Hybrid Cloud Console.

Procedure

- 1. Navigate to Red Hat Hybrid Cloud Console > OpenShift > Vulnerability > CVEs .
- 2. Select **CVE** in the filter drop-down list.
- 3. Enter or paste the CVE ID (for this example, CVE-2022-2526) into the search box.
- 4. Wait for the search results to populate (alternatively press Return or Enter). The search results show the **CVE ID**, **Publish date**, **Severity**, **CVSS base score**, and **Exposed clusters**.

Red Hat Hybrid Cloud Console	All apps and services 🔻
OpenShift	CVEs ®
Clusters	Vulnerability information applies to OCP4.8+ version only
Overview	
Releases	▼ CVE ▼ 2022-2526 Q Image: Comparison of the second secon
Developer Sandbox	Search term 2022-2526 × Exposed clusters 1 or more × Reset filter
Downloads	CVE ID Publish date CVSS b.
ル Red Hat Insights	CVE-2022-2526 18 Aug 2022 Important 8.8
Advisor >	
Vulnerability 🗸 🗸	
CVEs	

5. Click the hyperlinked CVE ID for more details about the CVE and a list of affected clusters.

3.2.2. Finding information about a specific CVE

After locating a specific CVE, you can open the CVE details view. Here you will find the following additional information:

- CVE ID
- Publish date
- a brief description about the CVE
- Severity level
- CVSS base score
- a list of exposed clusters with the following sortable columns:
 - Name (name of the cluster)
 - Status
 - Type
 - Version
 - Provider
 - Last seen

Prerequisites

• Your Red Hat account and your cluster are registered within the same organization.

- Your account contains connected Red Hat-administered OpenShift clusters.
- You are logged into the Red Hat Hybrid Cloud Console.

Procedure

- 1. Navigate to Red Hat Hybrid Cloud Console > OpenShift > Vulnerability > CVEs
- 2. Review the resulting list and find a CVE ID of interest (for example, 2022-2526).
- 3. Click the CVE ID in the CVE ID column. You see additional details about the CVE.

Hybrid Cloud Console	All apps and services 👻							
OpenShift	Vulnerability > CVEs > CVE-2022-2526							
Clusters	CVE-2022-2526							
	Publish date: 18 Aug 2022							
Overview	A use-after-free vulnerability was found in systemd. This issue occurs due to the on_stre- function and dns_stream_complete() function in 'resolved-dns-stream.c' not increment							
Releases	reference counting for the DnsStream object. Therefore, other functions and callback can dereference the DNSStream object, causing the use-after-free when the referenc							
Developer Sandbox	used later.							
Downloads	View in Red Hat CVE database 🗹 Exposed clusters							
✓ Red Hat Insights								
Advisor >	Year Filter by name Q							
Vulnerability 🗸	Name I	Status 1	Туре	Ver				
CVEs	k8s-1	Active	OCP	4.10				
Clusters	50640733-680e-43a9-a3d4-cff75f128163	Active	OCP	4.11.				
Subscriptions	14e50a5e-3a95-4ae3-8531-0f3530fc6a50	Active	OCP	4.10				
Cost Management >	9dd198a6-ed40-440d-8369-b75c09e19575	Active	OCP	4.10				



NOTE

If your clusters aren't affected by the CVE, you will see the message: "No matching clusters found."

3.2.3. Filtering results in the CVE list view

In the CVE list view, you can apply filters to the list of CVEs so that you can focus on specific information, such as the severity level of a CVE, or clusters in a specific version of OpenShift. After selecting an individual CVE, you can apply primary and secondary filters to the resulting list of clusters. The filters and options that you can apply are:

- **CVE ID**: Filter by ID or description.
- Publish date: Select from All, Last 7 days, Last 30 days, Last 90 days, Last year, or More than 1 year ago.

- Severity: Select one or more values: Critical, Important, Moderate, Low, or Unknown.
- **CVSS base score**: Enter a range from 0-10.
- **Exposed clusters**: Select to only show CVEs with clusters currently affected, or with no clusters affected.

Prerequisites

- Your Red Hat account and your cluster are registered within the same organization.
- Your account contains connected OpenShift clusters.
- You are logged into the Red Hat Hybrid Cloud Console.

Procedure

- Navigate to Red Hat Hybrid Cloud Console > OpenShift > Vulnerability > CVEsThe default view of the CVE list view shows a default filter selection of Exposed clusters, and 1 or More clusters.
- 2. Select a primary filter (for example, **Publish date**) from the drop-down list of filters on the left.
- 3. Select a secondary filter from the drop-down list of filters. For this example, select Last 30 days from the Filter by publish date drop-down arrow.



NOTE

The selected filters appear below the filter selection menu.

- 4. Confirm your filter selection, and then review the resulting information. This example shows CVEs from the last 30 days, if there are any.
- 5. To deactivate filters. click the X next to each filter (or any default filters) you selected, as needed.

If the last action results in a message indicating "No matching CVEs found," this means your clusters are not affected by any CVEs.



NOTE

Filters remain active until you deselect them or leave the Vulnerability dashboard session. Reset or deselect unneeded filters to avoid unintended results.

3.2.4. Filtering CVEs by severity

In Vulnerability dashboard, you can filter the CVE list to show the most critical CVEs.

Prerequisites

- Your Red Hat account and your cluster are registered within the same organization.
- Your account contains connected OpenShift clusters.
- You are logged into the Red Hat Hybrid Cloud Console.

Procedure

- 1. Navigate to Red Hat Hybrid Cloud Console > OpenShift > Vulnerability > CVEs
- 2. Click the drop-down filter list.
- 3. Select Severity.
- 4. Click the drop-down arrow in the Filter by Severity field.
- 5. Select a filter (for example, **Critical**) to display all CVEs with that severity rating.
- 6. Click the CVE ID to get additional information.

3.2.5. Sorting results in the CVE list view

You can also sort the list of CVEs in this view to triage the most relevant information first. For example, to see all of the most critical CVEs affecting your clusters, sort by the severity or CVSS base score. You can sort the CVE page results by these columns:

- CVE ID
- Publish date
- Severity
- CVSS base score
- Exposed clusters

Prerequisites

- Your Red Hat account and your cluster are registered within the same organization.
- Your account contains connected OpenShift clusters.
- You are logged into the Red Hat Hybrid Cloud Console.

Procedure

- 1. Navigate to Red Hat Hybrid Cloud Console > OpenShift > Vulnerability > CVEs
- 2. Click the sort arrow next to the column you want to sort.

3.3. ADDITIONAL RESOURCES

- Severity Ratings
- Official CVSS documentation

CHAPTER 4. USING THE CLUSTERS LIST VIEW TO HELP YOU DETERMINE WHICH CLUSTERS ARE VULNERABLE TO CVES

In the clusters list view, you can see the list of vulnerable clusters (also referred to as exposed clusters) in your organization. This view contains options you can choose to find information about a vulnerable cluster, view all the CVEs affecting the cluster and also all the clusters exposed to any of the resulting CVEs affecting the cluster.

The following information is shown at the top of the Clusters list view:

- Name: Shows the name of a vulnerable cluster that is affected by a CVE.
- Status: Shows the connection status (Connected, Stale, Not applicable or N/A of a cluster.
- Version: Shows the OpenShift Container Platform version (4.8+) of a cluster
- **CVEs severity**: Shows the severity level (Critical, Important, Moderate, Low) of the CVEs affecting the cluster.
- **Provider**: Shows the name of the cluster's cloud provider.
- Last seen: Shows the last time (in the form of minutes, hours, or days) since information was last uploaded from the cluster to the Vulnerability dashboard service.

4.1. GETTING TO THE CLUSTERS LIST VIEW

You can sort and filter information about your vulnerable clusters in the Clusters list view. Data in this view will help you focus on information that is important to your organization. To view data in the Clusters list view:

Prerequisites

- Your Red Hat account and your cluster are registered to the same organization.
- Your account contains connected OpenShift clusters.
- You are logged into the Red Hat Hybrid Cloud Console.

Procedure

- 1. Navigate to the Red Hat Hybrid Cloud Console
- 2. Click OpenShift.
- 3. Click Vulnerability.
- 4. Click Clusters.

4.2. REFINING THE CLUSTERS LIST VIEW RESULTS TO HELP PROTECT YOUR ORGANIZATION

To make the most use of Vulnerability dashboard, you can refine the Clusters list view results to:

• Filter results in the Clusters list view

- Filter clusters by CVE severity
- Sort cluster data

4.2.1. Filtering results in the Clusters list view

You can apply filters to a list of clusters in Vulnerability dashboard so that you can focus on specific information, such as the severity rating of a CVE, or clusters in a specific version of OpenShift Container Platform. After you select a CVE, you can apply filters to the resulting list of affected clusters.

The options for filtering in the Clusters list view are:

- Name: Filters on the name of a vulnerable cluster that is affected by a CVE.
- **Status**: Filters on the connection status (Connected, Disconnected, Stale, Not applicable or N/A) of a cluster.
- Version: Filters on the version (OpenShift Container Platform 4.8+) of a cluster.
- **CVEs severity**: Filters on the severity level (All clusters, Critical, Important, Moderate, Low) of the security-related issue and the number of images affected in the cluster.
- **Provider**: Filters on the name of the cluster's cloud provider.

Prerequisites

- Your Red Hat account and your cluster are registered within the same organization.
- Your account contains connected OpenShift clusters.
- You are logged into the Red Hat Hybrid Cloud Console.

Procedure

- 1. Navigate to Red Hat Hybrid Cloud Console > OpenShift > Vulnerability > Clusters
- 2. Select a primary filter (for example, **CVEs severity)** from the drop-down list of filters on the left.
- 3. Select the secondary filter (for example, Filter by CVEs severity).
- 4. Select a severity rating (for example, **Critical**). The selected filters appear below the filter selection menu.
- 5. Review the resulting information. Clusters vulnerable to CVEs with a severity level of Critical show first in the list.



NOTE

The default view is *All clusters* which shows all clusters, even those not vulnerable to any CVE. Remove this filter if you want to only show clusters that are affected by at least one CVE reported by Vulnerability dashboard.

Filters remain active until you deselect them or leave an Vulnerability dashboard session. Reset or deselect unneeded filters to avoid unintended results. To deactivate filters, click the **X** next to each filter (or any default filters) that you selected.

4.2.2. Filtering clusters by CVE severity ratings

You can apply filters to a list of clusters in Vulnerability dashboard so that you can focus on information such as the severity level of a CVE. Red Hat applies severity ratings to CVEs using a four-point scale of Critical, Important, Moderate, and Low. You can use the ratings to help you take actions to protect your organization. Procedure modules should include the steps that users perform and address user motivation.

Prerequisites

- Your Red Hat account and your cluster are registered within the same organization.
- Your account contains connected OpenShift clusters.
- You are logged into the Red Hat Hybrid Cloud Console.

Procedure

- 1. Navigate to Red Hat Hybrid Cloud Console > OpenShift > Vulnerability > Clusters
- 2. Click the drop-down filter list.
- 3. Select the **CVEs severity** primary filter.
- 4. Click the Filter by CVEs severity secondary filter.
- 5. Deselect All clusters.
- 6. Select a severity level (for this example, select **Critical**). You will see a list of clusters that have CVEs rated with the severity level of the option you selected.
- 7. **(Optional)** Click any of the clusters shown in the **Name** column to obtain more information about a cluster.

4.2.3. More information about filtering clusters by severity

In Vulnerability dashboard, you can use the CVEs Severity filter to show clusters affected by CVEs with ratings of Critical, Important, Moderate, or Low. The default filter, **All clusters**, shows both vulnerable clusters with their CVE severity ratings, as well as clusters not vulnerable to CVEs.

4.2.3.1. CVE severity indicators

Four icons represent the CVEs severity ratings from Critical to Low. The numbers beside the icons represent the respective number of CVEs with that severity type affecting that cluster. This representation allows you to quickly assess issue severity. The most critical issues will be displayed on the left with a color-coded red icon with an exclamation point in the middle. The icons represent increasingly lower severity rating levels when viewed from left to right.



4.2.3.2. CVE severity filtering by context

The CVE severity ratings in the Clusters list view are filtered by context. Each filtered result is always shown in context of the most important, or higher-level rating. If you filter by the CVEs severity option of Critical you see a similar result as shown in the following image. This example shows several clusters affected by one critical CVE each.

Hybrid Cloud Console	All apps and services 🔻						& ‡ 0	
OpenShift	Vulnerable cluste	ers						
Clusters	 Vulnerability information 	tion applies to OCP4.8+ version o	only					
Overview								
Releases	▼ CVEs sev ▼	Filter by CVEs severity 🔹	5				1-	19 of 19 ,
Developer Sandbox	CVEs severity Critical	 All clusters Critical 						
Downloads	Name 🗍	Important	Status 1	Туре	Version 1	CVEs severity	Provider 1	L
→ Red Hat Insights	10bc85c4-d60d-457e-a	Moderate	Active	OCP	4.10.27	Q 1 Q 26 Q 133 Q 21	baremetal	11
Advisor >	el8k	Low	Active	OCP	4.9.9	Q 1 Q 24 Q 203 Q 31	baremetal	2:
Vulnerability 🗸	jreimann-wonderful-iot-p	blayground	Active	OCP	4.10.30	Q 1 Q 16 Q 112 Q 14	none	10
CVEs	f8ba1705-62ef-411b-9d0	0d-4624b36b51cf	Active	OCP	4.8.10	Q 1 Q 14 Q 140 Q 21	azure	2
Clusters	21b9d18f-41c9-4a48-9c	dd-d29355945e98	Stale	OCP	4.10.26	U 1 U 14 U 121 U 12	aws (us-gov-west-1)	7

If you change the filter to *Important*, you see that the top cluster has 26 CVEs with a severity level of Important. You also see any additional CVEs affecting the cluster as well as their severity levels. Note the Critical CVEs still showing in this filter by Important. Even though the cluster list is not filtered by the CVEs severity rating of Critical, the filter still takes into account the importance of the Critical severity, and shows the number of CVEs rated as Important along with the critical CVEs, as shown in the following image.

E Sed Hat Hybrid Cloud Console	All apps and services 🔻						s \$ 0
OpenShift	▼ CVEs sev ▼	Filter by CVEs severity 🔹	5				1-20 of 602
Clusters	CVEs severity Importan	All clusters					
Overview	Name 1	 Critical Important 	Status 1	Туре	Version 1	CVEs severity	Provider 1
Releases	10bc85c4-d60d-457e-a	Moderate	Active	OCP	4.10.27	Q 1 Q 26 Q 133 Q 21	baremetal
	el8k	Low	Active	OCP	4.9.9	Q 1 Q 24 Q 203 Q 31	baremetal
Developer Sandbox	jreimann-wonderful-iot-p	playground	Active	OCP	4.10.30	Q 1 Q 16 Q 112 Q 14	none
Downloads	f8ba1705-62ef-411b-9d0	0d-4624b36b51cf	Active	OCP	4.8.10	Q 1 Q 14 Q 140 Q 21	azure
A Red Hat Insights	21b9d18f-41c9-4a48-9cd	dd-d29355945e98	Stale	OCP	4.10.26	Q 1 Q 14 Q 121 Q 12	aws (us-gov-west-1)
Advisor >	29790757-4df5-4ecd-8	758-9bf2025040df	Active	OCP	4.9.41	Q 1 Q 12 Q 62 Q 4	baremetal
	887f5421-ba6d-4270-ab	o85-e5aead10a85e	Stale	OCP	4.10.5	Q 1 Q 12 Q 47 Q 4	vsphere
Vulnerability 🗸	877c948f-4bc5-4de8-b	4d3-a2a626460aab	Active	OCP	4.10.6	Q 1 Q 12 Q 42 Q 13	aws (us-west-2)
Clusters	e817d9d6-e2f6-4321-b3	67-6792dd6bbd1d	Active	OCP	4.10.25	Q 1 Q 11 Q 43 Q 2	baremetal

In this same filter session, results show a cluster with zero CVEs with a Critical severity rating, and 32 CVEs with a severity level of Important, as shown in the following image.

Clusters	23079flb-cf48-4e05-a0ff-a35348cbebb8	Stale	OCP	4.10.12	V 1 V 10 V 43 V 1
Subagrintiana N	5c73565a-a43d-47fa-8b27-cdd419a3a80d	Stale	OCP	4.10.12	Q 1 Q 10 Q 43 Q 1
Subscriptions >	80963404-74b5-498e-babf-fc0f1372d151	Stale	OCP	4.11.0-rc.7	Q 1 Q 7 Q 21 Q 1
	aff5a913-1afa-4b0f-9dd3-f6ddeff478f3	Active	OCP	4.10.6	0 1 32 1 178 1 25

Filtering in this context helps you see the most important information first.

4.2.4. Sorting cluster data

In the Clusters list view, you can sort the following columns:

- Name: Shows the name of a vulnerable cluster that is affected by a CVE
- Status: Shows the connection status (Connected, Stale, Not applicable or N/A) of a cluster
- Version: Shows the OpenShift Container Platform version (4.8 or later) of a cluster.
- **CVEs severity**: Shows the severity level (Critical, Low, Moderate, Important) of the security-related issue and the number of images affected in the cluster.
- **Provider**: Shows the name of the cluster's cloud provider (AWS, Azure, etc.). This will vary as more cloud providers become available.

Additional Resources

• Severity Ratings–Understanding Red Hat security ratings .

CHAPTER 5. REFERENCE MATERIALS

To learn more about the Red Hat Insights for OpenShift, see the following resources:

- Red Hat Insights overview page
- Red Hat Insights Advisor for OpenShift