

OpenShift 4.12 UIs

A quick tour of some Logging and
Service Mesh console Improvements

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Admin Views

Things we can do from the admin console and the various UIs available there

Red Hat OpenShift

Administrator ▾

Home ▸

Operators ▸

Workloads ▸

Networking ▸

Storage ▸

Builds ▸

Observe ▾

- Alerting
- Metrics
- Dashboards
- Targets
- Logs**

Compute ▸

User Management ▸

Administration ▸

Logs

[Show Histogram](#) Last 1 hour ▾ Refresh off ▾ [Refresh](#)

Content ▾ Search by Content Severity ▾ application ▾ [Show Resources](#) [Run Query](#) [Show Query](#)

Date ↓	Message
> Apr 25, 2023, 15:56:38.637	[2023/04/25 19:56:38] [warn] [http_client] cannot increase buffer: current=32000 requested=64768 max=32000
> Apr 25, 2023, 15:56:38.620	[INFO] Downloaded from central: https://repol.maven.org/maven2/com/sun/activation/all/1.2.2/all-1.2.2.pom (15 kB at 183 kB/s)
> Apr 25, 2023, 15:56:38.585	[2023/04/25 19:56:38] [warn] [http_client] cannot increase buffer: current=32000 requested=64768 max=32000
> Apr 25, 2023, 15:56:38.552	[INFO] Downloading from central: https://repol.maven.org/maven2/com/sun/activation/all/1.2.2/all-1.2.2.pom
> Apr 25, 2023, 15:56:38.552	[INFO] Downloaded from central: https://repol.maven.org/maven2/jakarta/activation/jakarta.activation-api/1.2.2/jakarta.activation-api-1.2.2.pom (5.3 kB at 664 kB/s)
> Apr 25, 2023, 15:56:38.552	[INFO] Downloading from central: https://repol.maven.org/maven2/jakarta/activation/jakarta.activation-api/1.2.2/jakarta.activation-api-1.2.2.pom
> Apr 25, 2023, 15:56:38.552	[INFO] Downloaded from central: https://repol.maven.org/maven2/org/eclipse/ee4j/project/1.0.6/project-1.0.6.pom (13 kB at 1.9 MB/s)
> Apr 25, 2023, 15:56:38.552	[2023/04/25 19:56:38] [warn] [http_client] cannot increase buffer: current=32000 requested=64768 max=32000
> Apr 25, 2023, 15:56:38.552	[2023/04/25 19:56:38] [warn] [http_client] cannot increase buffer: current=32000 requested=64768 max=32000
> Apr 25, 2023, 15:56:38.483	[INFO] Downloading from central: https://repol.maven.org/maven2/org/eclipse/ee4j/project/1.0.6/project-1.0.6.pom
> Apr 25, 2023, 15:56:38.483	[INFO] Downloaded from central: https://repol.maven.org/maven2/jakarta/xml/bind/jakarta.xml.bind-api-parent/2.3.3/jakarta.xml.bind-api-parent-2.3.3.pom (9.0 kB at 1.3 MB/s)
> Apr 25, 2023, 15:56:38.483	[INFO] Downloading from central: https://repol.maven.org/maven2/jakarta/xml/bind/jakarta.xml.bind-api-parent/2.3.3/jakarta.xml.bind-api-parent-2.3.3.pom
> Apr 25, 2023, 15:56:38.483	[2023/04/25 19:56:38] [warn] [http_client] cannot increase buffer: current=32000 requested=64768 max=32000
> Apr 25, 2023, 15:56:38.483	[2023/04/25 19:56:38] [warn] [http_client] cannot increase buffer: current=32000 requested=64768 max=32000

Red Hat

OpenShift

Administrator

Home

Operators

OperatorHub

Installed Operators

Workloads

Pods

Deployments

DeploymentConfigs

StatefulSets

Secrets

ConfigMaps

CronJobs

Jobs

DaemonSets

ReplicaSets

ReplicationControllers

HorizontalPodAutoscalers

PodDisruptionBudgets

Project: demo

Pods > Pod details

P

vertex-6cd87b7df8-52chq

Running

Actions

Details

Metrics

YAML

Environment

Logs

Events

Terminal

Aggregated Logs

Logs

Show Histogram

Last 1 hour

Refresh off

Content

Search by Content

Severity

Show Resources

Run Query

Show Query

Date	Message
> Apr 25, 2023, 15:58:14.754	Jolokia: Agent started with URL https://10.129.2.44:8778/jolokia/
> Apr 25, 2023, 15:58:14.754	I> No access restrictor found, access to any MBean is allowed
> Apr 25, 2023, 15:58:14.754	INFO: Succeeded in deploying verticle
> Apr 25, 2023, 15:58:14.754	Apr 25, 2023 7:58:08 PM io.vertx.core.impl.launcher.commands.VertxIsolatedDeployer
> Apr 25, 2023, 15:58:14.754	Server started on port 8080
> Apr 25, 2023, 15:58:14.754	WARNING: All illegal access operations will be denied in a future release
> Apr 25, 2023, 15:58:14.754	WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
> Apr 25, 2023, 15:58:14.754	WARNING: Please consider reporting this to the maintainers of org.jolokia.util.ClassUtil
> Apr 25, 2023, 15:58:14.753	WARNING: Illegal reflective access by org.jolokia.util.ClassUtil (file:/usr/share/java/jolokia-jvm-agent/jolokia-jvm.jar) to constructor sun.security.x509.X500Name(java.lang.String,java.lang.String,java.lang.String,java.lang.String,java.lang.String,java.lang.String)
> Apr 25, 2023, 15:58:14.753	WARNING: An illegal reflective access operation has occurred
> Apr 25, 2023, 15:58:14.753	INFO exec java -javaagent:/usr/share/java/jolokia-jvm-agent/jolokia-jvm.jar=config=/opt/jboss/container/jolokia/etc/jolokia.properties -Xms192m -Xmx768m -XX:+UseParallelGC -XX:MinHeapFreeRatio=10 -XX:MaxHeapFreeRatio=20 -XX:GCTimeRatio=4 -XX:AdaptiveSizePolicyWeight=90 -XX:+ExitOnOutOfMemoryError -cp "." -jar /deployments/http-vertex-27-SNAPSHOT.jar

The image displays three screenshots of the Kiali console interface, illustrating the navigation and data for Service Mesh.

Top Screenshot: Service Mesh Overview

- Left Sidebar:** Shows the navigation menu with 'Administration' and 'Service Mesh' sections. 'Service Mesh' is expanded, showing 'Overview', 'Graph', and 'Istio Config'.
- Top Bar:** Includes filters for 'Namespace' and 'Name', and a refresh button.
- Main Content:** Displays the 'istio-system' Control Plane. It shows 8 labels: Istio Config (green), 7 Applications (green), and Outbound Policy (ALLOW_ANY). A CPU usage graph is shown with a peak of 0.0020 cores at 07:09 PM.

Bottom Left Screenshot: Istio Config

- Left Sidebar:** Shows the navigation menu with 'Service Mesh' expanded to 'Istio Config'.
- Top Bar:** Includes a filter dropdown and a search bar.
- Main Content:** A table listing Istio configuration resources in the 'istio-system' namespace.

Name	Namespace	Kind
default	istio-system	PeerAuthentication
disable-mtls-jaeger-collector	istio-system	DestinationRule
disable-mtls-jaeger-collector	istio-system	PeerAuthentication
disable-mtls-zipkin	istio-system	DestinationRule
grafana-ports-mtls-disabled	istio-system	PeerAuthentication
istiod-basic	istio-system	DestinationRule
metadata-exchange-1.6-basic	istio-system	EnvoyFilter
stats-filter-1.6-basic	istio-system	EnvoyFilter
stats-filter-1.11-basic	istio-system	EnvoyFilter
stats-filter-1.12-basic	istio-system	EnvoyFilter
stats-filter-1.13-basic	istio-system	EnvoyFilter
stats-filter-1.14-basic	istio-system	EnvoyFilter
stats-filter-1.15-basic	istio-system	EnvoyFilter

Bottom Right Screenshot: Graph View

- Left Sidebar:** Shows the navigation menu with 'Service Mesh' expanded to 'Graph'.
- Top Bar:** Includes filters for 'Namespace' (istio-system), 'Traffic', and 'Versioned app graph'.
- Main Content:** A graph showing the 'istio-ingressgateway' service. It includes a legend for 'Current Graph' showing 7 apps (7 versions) and 11 services. The graph shows inbound traffic from May 1, 07:09:28 PM to 07:10:28 PM.

Red Hat OpenShift

Project: demo

Deployments > Deployment details

nodejs-basic

Actions

Details

Metrics

YAML

ReplicaSets

Pods

Environment

Events

Service Mesh

Overview

Traffic

Logs

Inbound Metrics

Outbound Metrics

Traces

nodejs-basic

app=nodejs-basic deployment=nodejs-basic

nodejs-basic

nodejs-basic

Pods

Name	Status
nodejs-basic-6476dddc5f-bv2g6	

Istio Config

Name	Status
No Istio Config found for nodejs-basic	

Apr 25, 04:12:09 PM ... 04:13:09 PM

10m, 1m

Empty Graph

No graph traffic for the time period.

Developer Views

Things we can do from the developer console and the various UIs available there

☰

Red Hat OpenShift

Developer

+Add

Topology

Observe

Search

Builds

Helm

Project

ConfigMaps

Secrets

Project: demo

Observe

DashboardMetricsAlertsEventsAggregated Logs

Show Histogram

Last 1 hour

Refresh off

Content

Search by Content

Severity

Show Resources

Run Query

Show Query

Date	Message
> Apr 25, 2023, 15:55:56.430	<pre>{ "level":30,"time":1682452550373,"pid":17,"hostname":"nodejs-basic-6476dddc5f-bv2g6","req":{"id":2,"method":"GET","url":"/favicon.ico","query":{"params":{"headers":{"user-agent":"Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36"},"accept":"image/avif,image/webp,image/apng,image/svg+xml,image/*,*/*;q=0.8","referrer":"http://nodejs-basic-demo.apps.cluster-zd6dk.zd6dk.sandbox2753.opentlc.com/","accept-encoding":"gzip, deflate","accept-language":"en-US,en;q=0.9","host":"nodejs-basic-demo.apps.cluster-zd6dk.zd6dk.sandbox2753.opentlc.com","x-forwarded-host":"nodejs-basic-demo.apps.cluster-zd6dk.zd6dk.sandbox2753.opentlc.com","x-forwarded-port":"80","x-forwarded-proto":"http","forwarded":"for=4.79.27.2;host=nodejs-basic-demo.apps.cluster-zd6dk.zd6dk.sandbox2753.opentlc.com;proto=http","x-forwarded-for":"4.79.27.2"},"remoteAddress":"","::ffff:10.131.0.20","remotePort":60434},"res":{"statusCode":404,"headers":{"x-powered-by":"Express","content-type":"text/html; charset=utf-8","content-length":"9","etag":"W/\"9-0gXLlngzMqISxa6Slzx3F4wtLyg\""}},\"responseTime\":2,\"msg\":\"request completed\"}</pre>
> Apr 25, 2023, 15:55:56.430	<pre>{ "level":30,"time":1682452550309,"pid":17,"hostname":"nodejs-basic-6476dddc5f-bv2g6","req":{"id":1,"method":"GET","url":"/","query":{"params":{"headers":{"upgrade-insecure-requests":"1","user-agent":"Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/112.0.0.0 Safari/537.36"},"accept":"text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7","accept-encoding":"gzip, deflate","accept-language":"en-US,en;q=0.9","host":"nodejs-basic-demo.apps.cluster-zd6dk.zd6dk.sandbox2753.opentlc.com","x-forwarded-host":"nodejs-basic-demo.apps.cluster-zd6dk.zd6dk.sandbox2753.opentlc.com","x-forwarded-port":"80","x-forwarded-proto":"http","forwarded":"for=4.79.27.2;host=nodejs-basic-demo.apps.cluster-zd6dk.zd6dk.sandbox2753.opentlc.com;proto=http","x-forwarded-for":"4.79.27.2"},"remoteAddress":"","::ffff:10.131.0.20","remotePort":60434},"res":{"statusCode":200,"headers":{"x-powered-by":"Express","content-type":"text/html; charset=utf-8","content-length":"39","etag":"W/\"27-Jw3xdDamjf5jthPp3a/zd95HG0Y\""}},\"responseTime\":9,\"msg\":\"request completed\"}</pre>

Red Hat

OpenShift

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admin

Developer

+Add

Topology

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ConfigMaps

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Project: demo

Deployments > Deployment details

nodejs-basic

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Inbound Metrics

Outbound Metrics

Traces

nodejs-basic

app=nodejs-basic deployment=nodejs-basic

nodejs-basic

nodejs-basic

Pods

Name	Status
nodejs-basic-6476dddc5f-bv2g6	

Istio Config

Name	Status
No Istio Config found for nodejs-basic	

Apr 25, 04:13:32 PM ... 04:14:32 PM

10m, 1m

Empty Graph

No graph traffic for the time period.

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(Console extension from Kiali Console Operator)

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Project: demo

PR demo Active

Actions

OverviewDetailsProject accessService Mesh

Namespace

Filter by Namespace

Name

↓↑

Last 1m

Every 1m

Health for AppsTrafficInbound

istio-systemControl Plane

8 Labels

Istio Config

8 Applications

Outbound Policy

ALLOW_ANY

CPU

cores

0.0040

0.0020

04:13 PM

04:13 PM

04:14 PM

demo

7 Labels

Istio Config

1 Application

N/A

1

No inbound traffic

10

(Console extension from Kiali Console Operator)

Navigation Links

Things we should/need to
do from the external
consoles

Quick Links to Full External Dashboards

The screenshot displays the Kiali dashboard interface with several sections and annotations:

- Top Section:** Includes a header with "Project: demo" and "Application: All applications". Below it are filters for "Display options", "Filter by resource", and a search bar "Find by name...". A "View shortcuts" link is in the top right.
- Developer Topology View:** A large central area showing a topology diagram with two nodes. An arrow points to this area with the text "Kiali from Developer Topology View".
- Traces Tab:** A tab labeled "Traces" is selected. Below it is a "Display" dropdown and a "View in Tracing" link. An arrow points to the "View in Tracing" link with the text "Jaeger From Traces Tab (Admin & Dev)".
- Outbound Metrics Tab:** A tab labeled "Outbound Metrics" is selected. Below it are "Metrics Settings", "Reported from", and "Source" dropdowns. There are checkboxes for "Spans" and "Trendlines", and a "View in Grafana" link. An arrow points to the "View in Grafana" link with the text "Grafana From Metrics Tab (Admin & Dev)".
- Overview Tab:** A tab labeled "Overview" is selected. It shows a "CPU" graph for "cores" with a time range of "1m". A dropdown menu is open, showing links to "Istio Mesh Dashboard", "Istio Control Plane Dashboard", "Istio Performance Dashboard", and "Istio Wasm Extension Dashboard". An arrow points to this menu with the text "Specific Grafana Dashboards from the Overview Tab (Admin & Dev)".

- ▶ Blogs on Pillars of Observability (Enable Architect)
 - [How to implement observability in your IT architecture | Enable Architect](#)
- ▶ Service Mesh Console Navigation and Logging Docs
 - [Introducing the OpenShift Service Mesh Console \(A Technology Preview\)](#)
 - Logs in Kiali - [Metrics, logs, and traces - Service Mesh 2.x](#)
- ▶ Logging Product Mgmt Discussion
 - [Ask an OpenShift Admin \(E93\) | Openshift Logging and Observability](#)
- ▶ What's New in OpenShift 4.12 w/ Logging
 - [What's New in Red Hat OpenShift Monitoring 4.12 & Logging 5.6?](#)
- ▶ Customizing the OpenShift Web Console / Custom Kiali
 - [Customizing the web console in OpenShift Container Platform](#)
 - [Custom Dashboards | Kiali](#)
- ▶ Video of these UIs in action
 - <https://youtu.be/SXDiCVksJQE>

Thank you!



Free Stuff 4 Developers

<https://developers.redhat.com/>



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[@dudashtweets](https://twitter.com/dudashtweets)



<https://www.linkedin.com/in/jasondudash/>



github.com/dudash

