Controlling Containerized xUML Services Kubernetes

You have two options to deploy xUML services as a Kubernetes workload:

- 1. The PAS Administration offers a deployment wizard (refer to Working With the Deployment Wizard for details).
- You can also deploy Designer services directly to the deployment target Container (refer to Designer Guide > Selecting the Deployment Target).

xUML services that run in Kubernetes have extended details to manage this type of service.



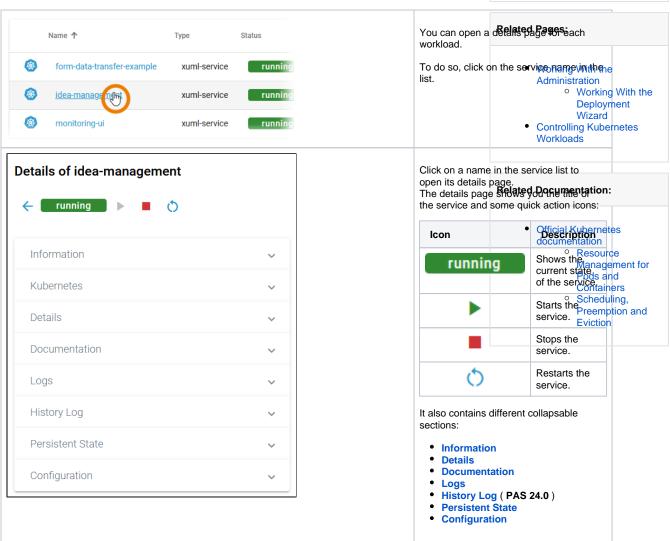
We recommend using container deployment as the default deloyment target starting with PAS 23.1. For further information see:

- Designer Guide > Deployment as Container
- Administration Guide > Controlling Containerized xUML Services

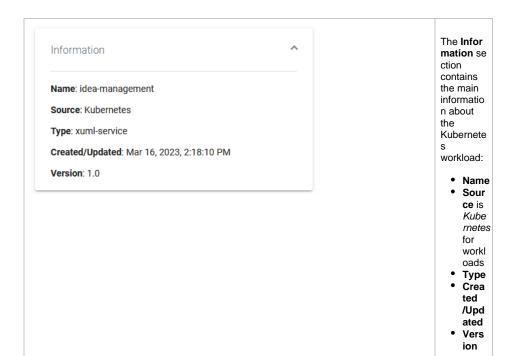
On this Page: Using the Workload Details Information Kubernetes Pod Networking Details Endpoints Libraries Deleting a Service Documentation Logs History Log

Persistent StateConfiguration

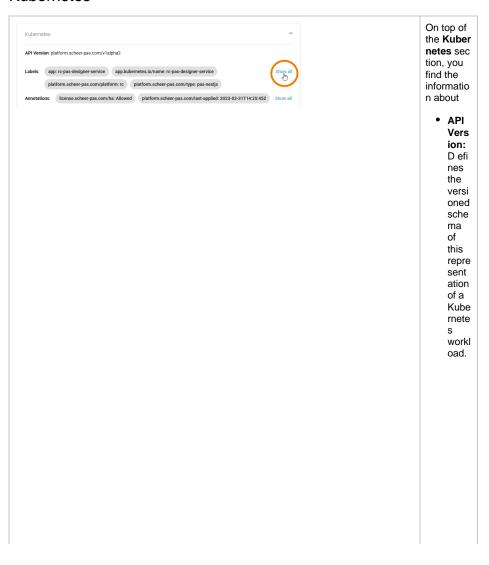
Using the Workload Details



Information



Kubernetes



 Labe ls: M ар of strin keys and value s that can be used to orga nize and cate goriz ē (sco ре and selec t) workl oads.

Ann otati ons: U nst ructu red key value map store d with а reso urce that may be set by exter nal tools to store and retrie ve arbitr ary meta data.

Click **Sho w all** to display all available labels or annotatio ns.

Pod Networking

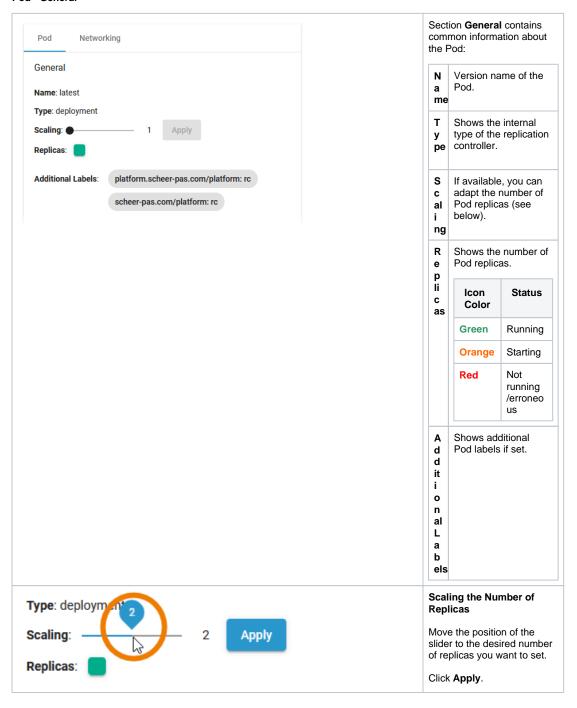
General

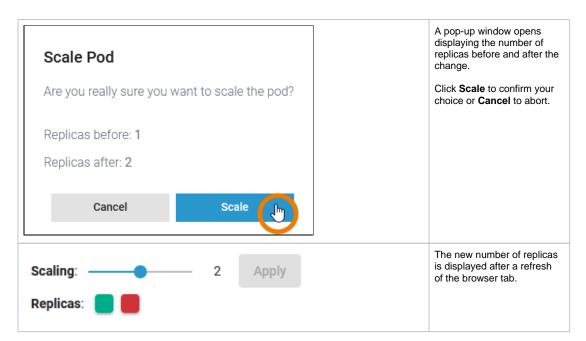
Below this informatio n, you can find the two tabs Pod and Netw orking.

Pod

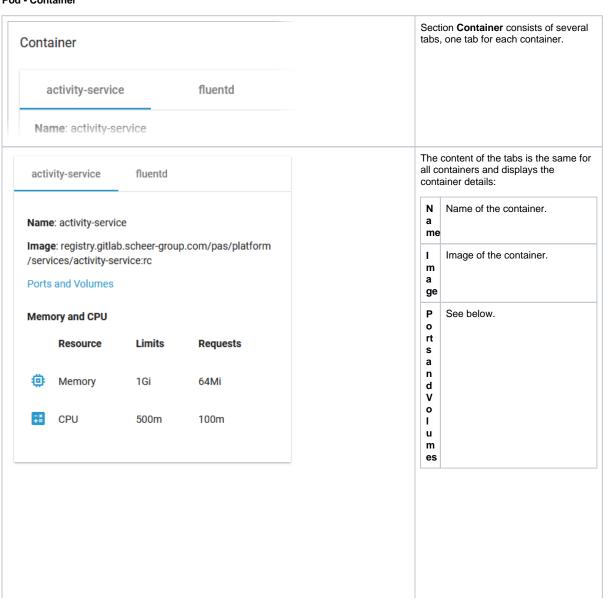
Tab **Pod** contains the sections **General** and **Container**. The information displayed in the two sections is read-only.

Pod - General





Pod - Container



M e m o r y a n

Shows the container limitations. If a container exceeds its memory request and the node that it runs on becomes short of memory overall, it is likely that the Pod the container belongs to will be evicted.

d Limitations cannot be changed by users. They are set during system deployment

	Limits	Requests
Me mo ry	If the memory limit is exceede d, the containe r will run in state Ou tOfMem ory and then be killed.	If a container exceeds its memory request and the node that it runs on becomes short of memory overall, it is likely that the Pod the container belongs to will be evicted.
CPU	If the CPU limit is exceede d, the containe r will be throttled, the process will slow down.	If the CPU memory request exceeds the nodes (server) capacity, the P od can be stopped and stared on a different node.



Visit the official Kubernetes documentation for more information:

- Resource
 Management
 for Pods and
 Containers for
 detailed
 information
 abour requests
 and limits.
- Scheduling, Preemption and Eviction about the rules regarding the termination of pods.

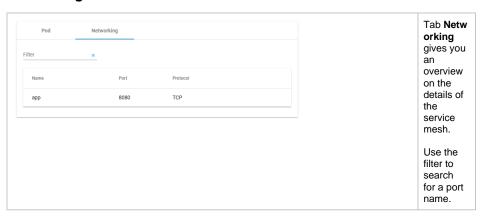


If you click the link **Ports and Volumes**, the container details open in a separate pop-up.

- **Ports:** Displays a list of all ports exposed in the internal network.
- Volumes: Lists all mounted volumes.

Use the filter on top of each list to search for single ports or volumes.

Networking



Details

On top of the **Details** section, you can find the option **Delete Service** (refer to **Deleting a Service** below for further information). The boxes **General**, **Build** and **Deployment** contain read-only information.



General

Timer

Inactive

Scheduler

Inactive

Name

Idea_Management_Jane

Version

23.1.0

The **General** details contain common information about the compiled .rep file:

Timer	Shows whether a timer is enabled or not.	
Sch edul er	Shows whether a scheduler is enabled or not.	
Name	Name of the compiled service.	
Vers ion	Version of the compiled service.	



Image Name

hbr.devcluster.pas-internal.com/u500°

Build User

jane.marple

Build Date

Mar 16, 2023, 2:16:50 PM

Compiler Version

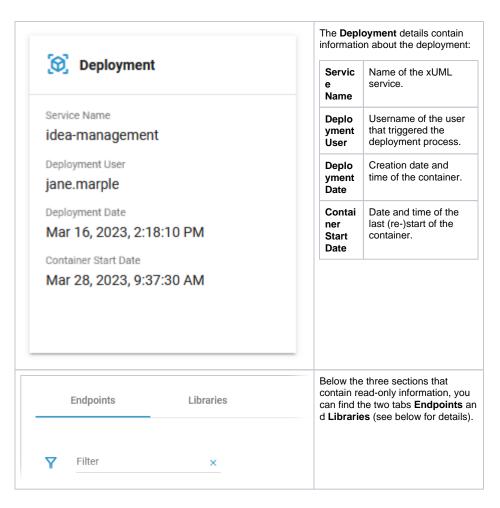
7.29.0-rc-c3c181c

Compile Date

Mar 16, 2023, 8:48:17 AM

The **Build** details contain information about the workload:

Image Name	Name of the image in the Docker registry.	
Build User	Username of the user that triggered the build process.	
Build Date	Build date and time of the service repository.	
Comp iler Versi on	Version of the compiler the service has been compiled with.	
Comp ile Date	Timestamp of the compilation of the service.	

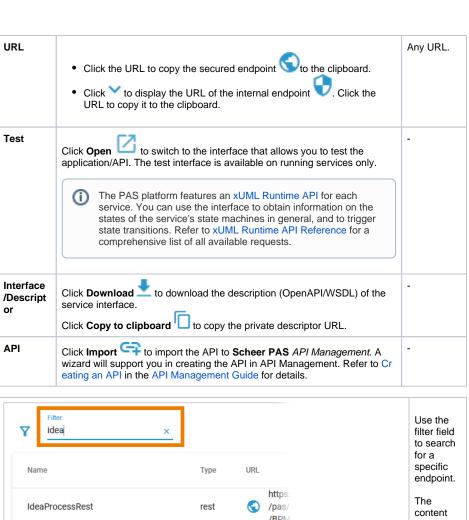


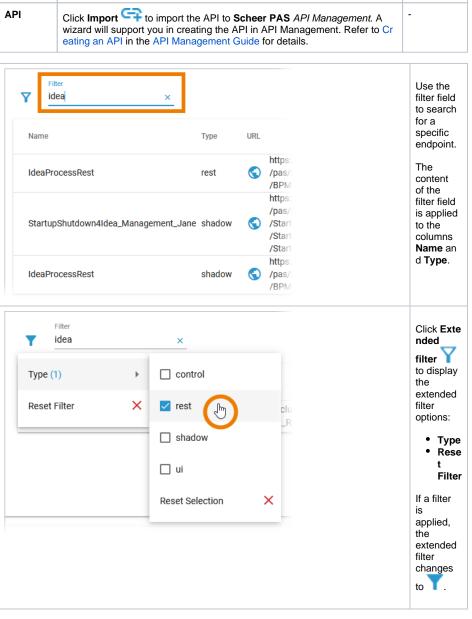
Endpoints

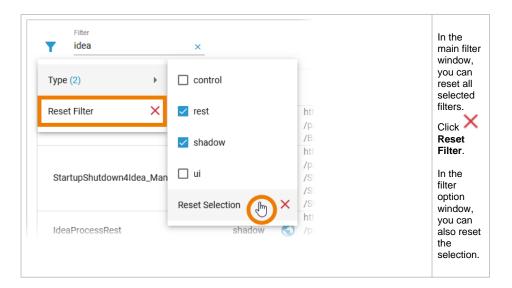
In tab **Endpoints** you can find the necessary information regarding the API endpoints of this service:



Column	Description	Possible Values
Name	Name of the registered endpoint.	Any string.
Туре	Type of the registered endpoint.	controlrestshadowsoapui





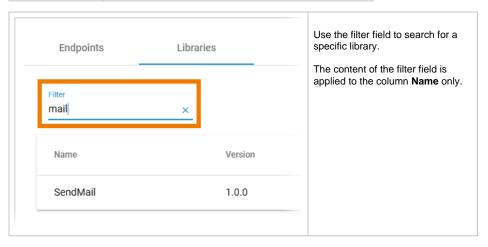


Libraries

In tab Libraries you can find a list of all libraries that are used in this service:



Column	Description	
Name	Name of the library.	
Version	Version of the library.	
Compiler Version	Version of the compiler the library has been compiled with.	
Compile Date Timestamp of the compilation of the library.		



Deleting a Service



If you want to delete a containeri zed xUML service, click Dele te Service on top of the **Detail** s section.

Confirm Deletion

⚠ Please be aware that by deleting this service...

- the service container (deployment) gets removed from the current system
- registered routes are purged
- $\boldsymbol{\cdot}$ persisted data that may have been stored in this service will be removed

Please type the following: example-service

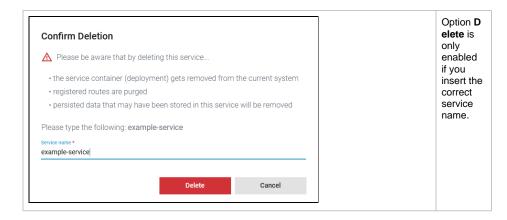
Service name *

Delete

Cancel

Please note, that the deletion of a service has several conseque nces:

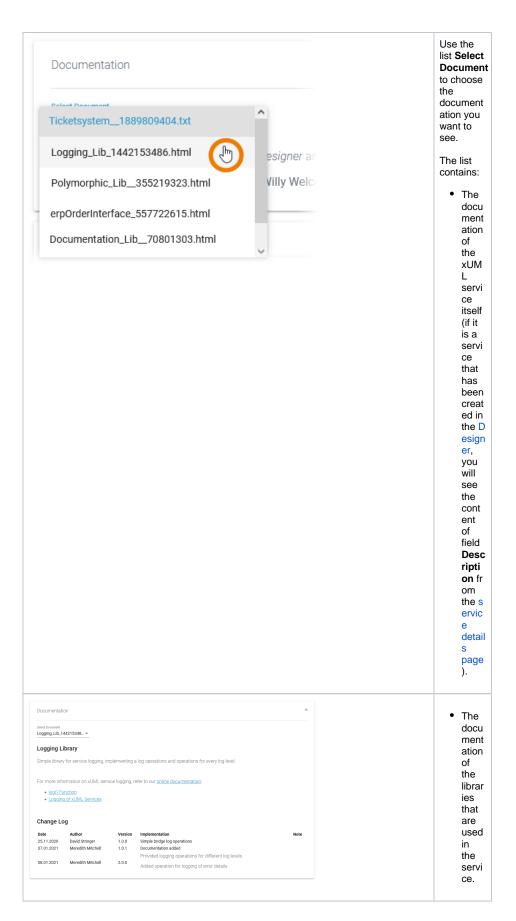
- The serv ice cont aine (dep loy men t) will be rem ove d from the curr ent syst em.
- The regi ster ed rout es are purg ed.
- Pers iste d data stor ed in this serv ice will be rem ove d.

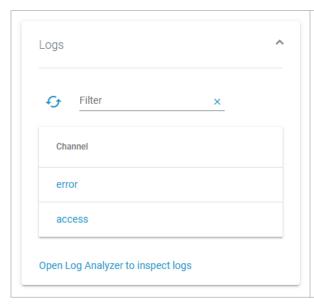


Documentation



Open the **Documen tation** sec tion to display the document ation of the xUML service.

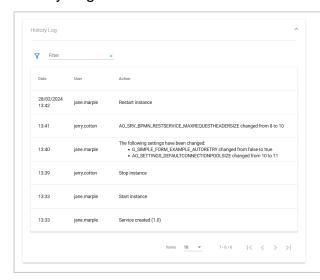




In section **Logs** you can change the log level. Go to page Changing the Log Level of a Workload for detailed information.

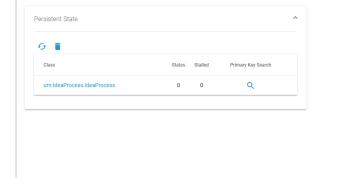
The link in section **Logs** gives you direct access to the Log Analyzer, where you can inspect the logs. Refer to Showing Logs of a Containerized xUML Service and U sing Kibana for further information.

History Log



In the His tory Log section (PAS 24.0) you can inspect the service history. Refer to S howing Logs of a Containeri zed xUML Service for detailed informatio n.

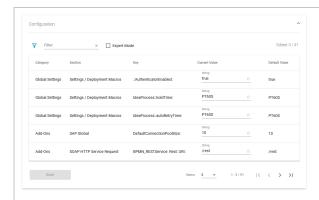
Persistent State



Persisten t State yo u can manage p ersistent state objects. Refer to P ersistent States of Containeri zed xUML Services for detailed informatio n.

In section

Configuration



In the Co nfiguration section you can change the settings of an xUML service. Refer to A dapting the Configurat ion of Containeri zed xUML Services for detailed informatio n.