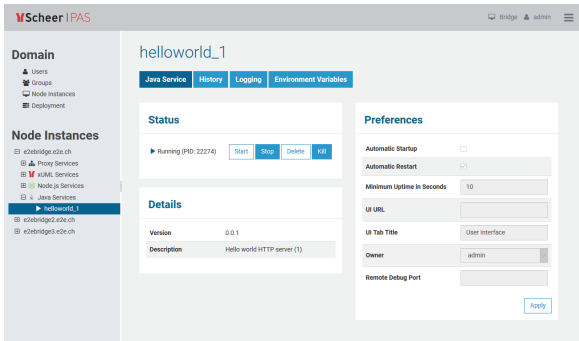


Java Service Details

You can only inspect the details of Java services of the node instance the used Bridge is running on. If you have aggregated multiple node instances into a Bridge domain, you need to use the Bridge of the specific node instance the Java service is running on.

All users may view details of a Java service. Expand the tree below a node instance in the **Node Instances** section of the navigation. Then, navigate to a Java service entry below the sub-navigation item **Java**. The tab **Java Service** is initially displayed.

Figure: Java Service Details



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Status Information

In the **Status Information** section, the status of the Java service (**Running** or **Stopped**) is displayed. Here you can start, stop, delete, or kill the service.

- Stopping** the service
Bridge 7.2.0 Clicking **Stop** will send `SIGTERM` to the service.
Older Bridges called `Java Process.destroy()`.
- Killing** the service
Bridge 7.2.0 The **Kill** functionality will first try to regularly stop the service. When the service is still running after 10 seconds, it will forcibly terminate the service with `Java Process.destroyForcibly()`.

If the service is up and running, you can see the system process id (**PID**) of the service. To match the PID with the Bridge service, you can also use system commands:

System	Command / Output
Linux	<pre>ps -efa grep -- --instance</pre>
	<pre>... 15228 ... /opt/e2e_bridge_prog/nodejs-8.11.4/linux-64/node index.js --instance /opt/e2e_bridge_data/nodejs_NodeService ... 15265 ... /opt/e2e_bridge_prog/nodejs-8.11.4/linux-64/node app.js --instance /opt/e2e_bridge_data/nodejs_api-test- helloworld_43 ... 15853 ... /opt/e2e_bridge_prog/j2re-11.0.2/linux-64/bin /java -jar repository.jar --instance /opt/e2e_bridge_data /java_helloworld [...]</pre>
Windows	<p>Run with administration privileges:</p> <pre>wmic process where "caption='bridgeserver.exe' or caption='node. exe' or caption='java.exe'" get processid,caption,commandLine /format:csv findstr /C:--instance</pre>

```
... ,bridgeserver.exe,"C:\E2E_BRIDGE_PROG\bridgeserver-2018.12
\win32-64\bridgeserver.exe" --config "C:
\var\E2E_BRIDGE_DATA\server.cfg" --instance "C:
\var\E2E_BRIDGE_DATA\bridge_SoapWait",17600
... ,node.exe,C:\E2E_BRIDGE_PROG\nodejs-8.11.4\win32-64\node app.
js "--instance C:\var\E2E_BRIDGE_DATA\nodejs_api-test-helloworld" ,
20144
```


Service Details

In the **Overview** section, the following information is displayed:

Element	Description	Origin (MANIFEST.MF)
Version	Version of the Java service as specified in package.json.	E2E-Service-Version
Description	Description of the Java service as specified in package.json.	E2E-Service-Description

Preferences

In the **Preferences** section, the following preferences can be modified:

Option	Description
Automatic Startup	<p>Select this option, if you want the service to startup automatically, whenever the Bridge is started. Only users who are member of a group, to which the role ADMIN has been assigned, are allowed to change this option.</p> <div> <p>This option can be globally disabled by the Disable Automatic Service Startup option on the node instance preferences.</p> <p>When updating the BRIDGE, all deployed services (xUML, Node.js, and Java services) will be kept. However, the automatic startup option will be ignored on the very first start-up after the update.</p> </div>
Automatic Restart	<p>Whenever the service crashes, it will restart immediately. Nevertheless, in the navigation the icon  next to the xUML service name will indicate the abnormal termination.</p> <p>Also consider the implications of Minimum Uptime in Seconds when setting this option.</p>
Minimum Uptime in Seconds	<p>To allow the Bridge to distinct whether the service has crashed during start-up or not, specify the minimum uptime of the Node.js service in seconds.</p> <p>Implications:</p> <ul style="list-style-type: none"> • If the service crashes during the uptime period, the Bridge will assume that the service could not be started. No Automatic Restart will be applied. • If the service crashes after the uptime period, the Bridge will assume a crash. If option Automatic Restart is set, the Bridge will try to restart the service.
UI URL	Specify the URL of the user interface of the Java service. It then will be displayed as an additional tab within the Bridge and you can access it directly via the Bridge.
UI Tab Title	If the Java service has a user interface that is integrated to the Bridge, you can specify the title of the tab here. The default title is User Interface .
Owner	The group id of the user who has deployed the service. Only users who are member of a group, to which the role ADMIN has been assigned, are allowed to modify the owner of the service.

Remote Debug Port

If you want to debug your Java service, save the number of the port you want to use for debugging in this field. While starting the service on the Bridge, the port number will automatically be committed to the service and you can attach a Java debugger to this port. The Java service process will be started with the following options in this case: - `agentlib:jdwp=transport=dt_socket,server=y,suspend=n,address=<REMOTE_DEBUG_Port>`
If no remote debug port is specified, debugging is disabled.

History

Switch to the **History** tab to view the history of all user actions that were executed on the selected Java service since its deployment.

In the Java service history all user actions are listed - comprising starting and stopping the service, modification of the preferences, etc. The list is sorted in a chronological order and also shows the user who initiated the action.

The history also lists internal actions, for instance, when the system started or stopped a Java service automatically.

All users have access to the history information.

Figure: Java Service History

The screenshot shows the 'History' tab for a service named 'helloworld_1'. The interface includes a navigation bar with 'Java Service', 'History', 'Logging', and 'Environment Variables'. The 'History' section has a title 'History', a 'Max. entries to load' dropdown set to '20', a 'Show' dropdown set to '10', and a 'Filter' input field. Below this is a table with columns 'Date', 'User', and 'Action'. The table contains 10 entries, with the first one truncated. The last entry is 'Preferences changed (owner = admin)'. At the bottom, it says 'Showing 1 to 10 of 10 entries' and has 'Previous' and 'Next' buttons.

Date	User	Action
2019/02/06 13:58:09 CET	SYSTEM	Start instance failed
2019/02/06 13:58:09 CET	admin	Start instance
2019/02/06 13:57:53 CET	SYSTEM	Start instance failed
2019/02/06 13:57:52 CET	admin	Start instance
2019/02/06 10:13:52 CET	admin	Service created (0.0.1)
2019/02/06 10:13:52 CET	admin	Preferences changed (JS title = user interface)
2019/02/06 10:13:52 CET	admin	Preferences changed (minimum uptime = 10)
2019/02/06 10:13:52 CET	admin	Preferences changed (automatic restart = true)
2019/02/06 10:13:52 CET	admin	Preferences changed (system startup = false)
2019/02/06 10:13:52 CET	admin	Preferences changed (owner = admin)