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GridLab - A Grid Application Toolkit and Testbed

GAS Portlet Administrator's Guide

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Abstract: In this document, a GAS Portlet Administrator's Guide is presented



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1 GAS Portlet Administrator's Guide

1.1 Table of Contents

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1.2 Introduction

The GAS Portlet Administrator's Guide describes how to install and maintain the GAS portlet within the GridSphere portal. For more information on working with GAS, please read the GAS Portlet User's Guide document or visit the following web page:

<http://www.gridlab.org/WorkPackages/wp-6/documentation.html> It is assumed that you have successfully installed the GridSphere Framework Portal and you are familiar with portlets and GAS. The current version of described portlet supports GAS v1.4.0.

1.3 Installing the GAS portlet

In order to install the GAS portlet please:

- extract content of the GAS portlet tarball to `<GRIDSPHERE_HOME>/projects`
- change directory to `<GRIDSPHERE_HOME>/projects/gas`
- run `ant install`

These steps should deploy portlet within the GridSphere and generate the documentation (the documentation you are reading at the moment).

Since GAS and the GAS portlet use communication over the httpg protocol, you have to make some changes in the `$CATALINA_HOME/bin/catalina.sh` script. Please add the following lines into the start section just after

```
elif [ "$1" = "start" ] ; then
shift touch "$CATALINA_BASE"/logs/catalina.out
```

lines in the script: `CLASSPATH="$CLASSPATH": "$CATALINA_HOME/shared/lib/cog-jglobus.jar":`

```
"$CATALINA_HOME/shared/lib/log4j-core.jar"
```

```
CLASSPATH="$CLASSPATH": "$CATALINA_HOME/common/endorsed/xercesImpl.jar":
```

```
"$CATALINA_HOME/common/endorsed/xmlParserAPIs.jar"
```

```
CLASSPATH="$CLASSPATH": "$CATALINA_HOME/shared/lib/puretls.jar":
```

```
"$CATALINA_HOME/shared/lib/jce-jdk13-117.jar"
```

```
CLASSPATH="$CLASSPATH": "$CATALINA_HOME/shared/lib/cryptix32.jar":
```

```
"$CATALINA_HOME/shared/lib/cryptix-asn1.jar"  
CLASSPATH="$CLASSPATH": "$CATALINA_HOME/shared/lib/cryptix.jar"
```

The modification above will add necessary jars to the `$CLASSPATH` environment variable during the Tomcat startup.

The GAS Portlet is ready to configure and use !!!
Please see 1.4 section of this documentation.

1.4 Configuring the GAS portlet

In order to setup portlet settings please switch portlet to the config mode (note that you have to have the admin rights).

For the first time, you can see default settings that comes from the `$CATALINA_HOME/webapps/gas/WEB-INF/PortletServices.xml` file. These settings should fit your needs (maybe except for the GAS service URL). Otherwise, please change them (please note that: after making changes the settings are stored in `$CATALINA_HOME/webapps/gas/WEB-INF/Settings/config.xml`, and any changes in `$CATALINA_HOME/webapps/gas/WEB-INF/PortletServices.xml` will not have any effects). Please make any changes through config mode only (do not edit config files directly).

This settings affect all users (except MyProxy default settings if a user was using the GAS portlet before). You have 2 subtabs here:

- Service settings
- Connection settings

After making any changes you have to confirm it by pressing the set button. See also the GAS Portlet Settings for user in the GAS Portlet Configuration User's Guide.

1.5 Configuring GAS portlet - service settings

Service settings allow to:

- setup the GAS service settings - GAS Service URL
- setup MyProxy default settings - this settings will appear in the edit mode by default (setup of the MyProxy default hostname and the MyProxy default port)

1.6 Configuring the GAS portlet - connection settings

Connection settings allow to define 2 separate connectors. We call them secure and insecure connector (port number and scheme), although portlet doesn't check if connector is secure or insecure (you can even describe here 2 secure or insecure connectors, it depends on your HTTP server settings).

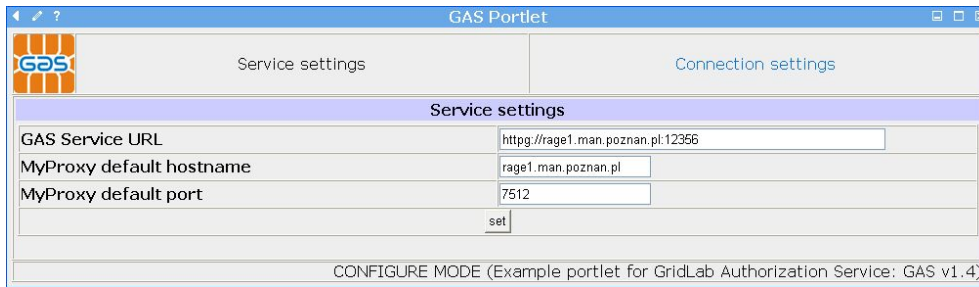


Figure 1: Service settings in the config mode of the GAS portlet

Please do not make any changes here, unless you know exactly what HTTP server settings are. You can find the following fields here:

Default scheme - scheme for insecure (first type) connection (just leave http, as it is)

Default port - the port number for insecure connection. The port for the default Tomcat connector (unless you make changes in server.xml) is 8080.

Secure scheme - scheme for secure (second type) connection (just leave https, as it is)

Secure port - the port number for the secure connection. The port for the default secure Tomcat connector (unless you make changes in server.xml) is 8443. Please note that you have to follow the instructions in server.xml in order to enable the secure connector.

View mode use secure - if the checkbox is switched on, the view mode will use the secure connector.

Edit mode use secure - if the checkbox is switched on, the edit mode will use the secure connector. Please note, that user exchanges confidential data with portlet in the edit mode.

Config mode use secure - if the checkbox is switched on, the configure mode will use the secure connector.

Help mode use secure - if the checkbox is switched on, the help mode will use the secure connector.

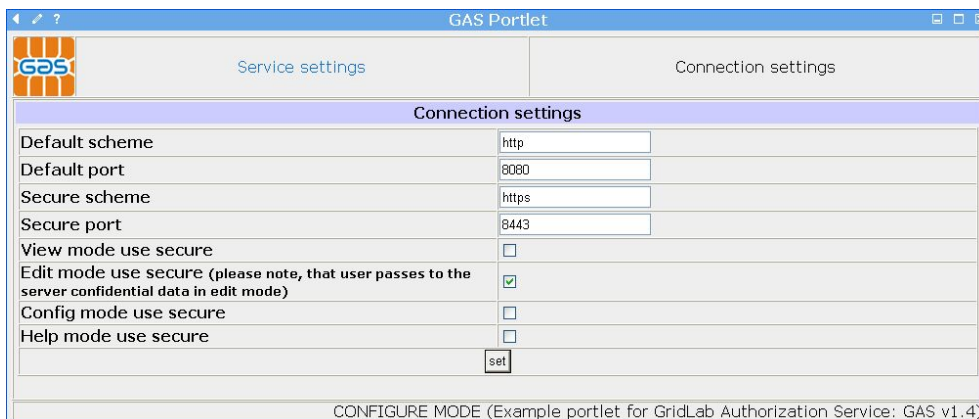


Figure 2: Connection settings in the config mode of the GAS portlet

References