Web Check Information Provider
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Abstract

This provider connects to a web server. If the connection can successful be made the server is registered as alive, otherwise it is down. This provider is an execution aggregator provider. These providers are quite useful as is and additionally serve as an example of how to create others. The perl script and configuration file can be modified to the users liking once installed. This provider has a perl script and an xml configuration file. The perl script is used to obtain information and formatted the information into xml output. The output is written to stdout where it is gathered and put into the Index Service. The xml file is of a common format that is explained here. After installing the package the xml configuration files will be copied to $GLOBUS_LOCATION/etc/globus_wsrfs_mds_index/default_providers/ where the DefaultIndexService will find them and use them to register the provider.

You can download a PDF version of Web Check Information Provider information here\(^1\).

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\(^1\) web_info.pdf
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Chapter 1. GT 4.2.0 Release Notes: Web Check Information Provider

1. Component Overview

This provider connects to a web server. If the connection can successful be made the server is registered as alive, otherwise it is down. This provider is an execution aggregator provider. These providers are quite useful as is and additionally serve as an example of how to create others. The perl script and configuration file can be modified to the users liking once installed. This provider has a perl script and an xml configuration file. The perl script is used to obtain information and formatted the information into xml output. The output is written to stdout where it is gathered and put into the Index Service. The xml file is of a common format that is explained here. After installing the package the xml configuration files will be copied to $GLOBUS_LOCATION/etc/globus_wsrfs_mds_index/default_providers/ where the DefaultIndexService will find them and use them to register the provider.

2. Feature Summary

Features new in release 4.2.0:

- This provider determines if a Web (HTTP) server is online.

3. Changes Summary

This is a new information provider for GT 4.2.0.

4. Bug Fixes

There are no fixed bugs for this information provider.

5. Known Problems

- There are currently no bugs for this information provider.

6. Technology Dependencies

This information provider depends on the following GT components:

- Java WS Core

This information provider depends on the following 3rd party software:

- A working Perl installation

7. Tested Platforms

Tested Platforms for this information provider:
• N/A

Tested containers for this information provider

• Java WS Core container

8. Backward Compatibility Summary

This is a new information provider with this version.

9. Associated Standards

Associated standards for this Information Provider:

• N/A

10. For More Information

See Chapter 2, GT 4.2.0: Web Check Information Provider Reference for more information about this information provider.
Chapter 2. GT 4.2.0: Web Check
Information Provider Reference

1. Overview

This provider connects to a web server. If the connection can successful be made the server is registered as alive, otherwise it is down. This provider is an execution aggregator provider. These providers are quite useful as is and additionally serve as an example of how to create others. The perl script and configuration file can be modified to the users liking once installed. This provider has a perl script and an xml configuration file. The perl script is used to obtain information and formatted the information into xml output. The output is written to stdout where it is gathered and put into the Index Service. The xml file is of a common format that is explained here. After installing the package the xml configuration files will be copied to $GLOBUS_LOCATION/etc/globus_wsrf_mds_index/default_providers/ where the DefaultIndexService will find them and use them to register the provider.

This is an execution aggregator source based information provider.

2. Prerequisites

1. A working Perl installation

3. Configuring

The following configuration is required for this information provider:

1. In order to grant permission to the installed perl scripts the user must edit the file: $GLOBUS_LOCATION/etc/globus_wsrf_mds_index/jndi-config.xml such that the tags:

   `<parameter>
     <name>executableMappings</name>
     <value>
       agr-test=aggregator-exec-test.sh, pingexec=example-ping-exec
     </value>
   </parameter>

includes the new provider. For example:

   `<parameter>
     <name>executableMappings</name>
     <value>
       web-info=web-check.pl
     </value>
   </parameter>`
2. This provider connects to a web server. If the connection can be successful the server is registered as alive, otherwise it is down. To change what server is monitored edit the tag:

```
$GLOBUS_LOCATION/etc/globus_wsrf_mds_index/default_providers/web-info-reg.xml
```

and change the line:

```
<RegistrantEPR
   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/03/addressing"
   xmlns:agg="http://mds.globus.org/aggregator/types">
<wsa:Address>http://www.SITE.COM</wsa:Address>
</RegistrantEPR>
```

from "http://www.SITE.COM" to the webserver of your choice.

4. **Resource Properties**

   - Data appears as part of the ServiceGroupEntry RP

4.1. **Namespace URI**

   TODO: Include the Namespace URI, or provide a link to the Java API Documentation, which is required to construct the QName for the subscription to the Topic.

5. **Schema**

   - N/A

6. **Security Considerations**

   General security considerations associated with the container and all MDS services apply. See: Aggregator Framework.

   Additionally the user should consider that publishing system specific information as is the intention of this provider can have security ramifications.

6.1. **WS MDS Aggregator Services (Index Service and Trigger Service) Security Considerations**

   By default, the aggregator sources do not use authentication credentials -- they retrieve information using anonymous SSL authentication or no authentication at all, and thus retrieve only publicly-available information. If a user or administrator changes that configuration so that a service's aggregator source uses credentials to acquire non-privileged data, then that user or administrator must configure the service's aggregator sink to limit access to authorized users.

7. **Testing**

   N/A
8. Troubleshooting

N/A
## Glossary

### A

<table>
<thead>
<tr>
<th>term</th>
<th>definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>aggregator source</td>
<td>A Java class that implements an interface (defined as part of the Aggregator Framework) to collect XML-formatted data. WS MDS contains three aggregator sources: the query aggregator source, the subscription aggregator source, and the execution aggregator source.</td>
</tr>
</tbody>
</table>