Savannah
Command Line Interface

Fidel Alfaro Almagro
16 January 2009
1. Introduction

2. Savannah

3. Installing SCLI

4. Using SCLI

5. Links
1. INTRODUCTION

• Savannah Command Line Interface (SCLI):
  – Middleware software to allow users to interact with Savannah web page in an automatized way.
  – Mostly developed by Joachim Flammer

• Functions:
  – Watch / execute changes in the Savannah tracking systems
  – Allows submitting and cloning of elements in Savannah items.

• Advantages
  – Automatization of actions in Savannah in a programatic way
  – Interaction between Savannah information and other applications
This web site is provided by the **LCG Software Process & Infrastructure (SPI) project**. It offers facilities for development, distribution and maintenance of LCG software projects and related projects.

If you would like to use these facilities for your project, then go to the **Register new project** menu entry that is displayed after login. Posting as well as browsing in your project can be restricted by project admins (link to User Docs Cookbook in left column).

If you have questions about using this site, please consult the **user docs/admin docs** (left menu bar). If you don't find an answer to your problem, use the **support** link and then choose **Submit a Request** in the menu bar which will appear at the top of the page. Please note that this form has to be used **ONLY** for Savannah portal issues. **All other** support requests should be posted to the appropriate project.

The software used to run this site has been developed by the **GNU/Savane** project and customized for LCG use by SPI.

### Reduced service during CERN end of year closure

*posted by ype, 2008-12-17 16:20 - 0 replies*

From Saturday 20 Dec 2008 to Sunday 4 Jan 2009 inclusive CERN will be closed. The LCG...
- Working with many projects
- Managing different kind of items: Bugs, patches, tasks, etc.
3. INSTALLATION

Installing SCLI: Check the web site

https://twiki.cern.ch/twiki/bin/view/EGEE/SavannahCommandLineInterface

How to install

The savannah cli uses some packages internally and is based on python. To use the CLI tool, you need to have python installed on your machine and you need to install the internal packages.

Those packages are:

- twiki-0.9.tar.gz
- PyXML-0.8.4.tar.gz
- BeautifulSoup.tar.gz
- ClientForm-0.2.9.tar.gz

The easiest way is to do the installation using the script `install_deps.sh` in the CVS which does everything automatically. It is not needed to be root to run this script.

An alternative way is to download the packages manually and after that, untar them, build each one of them and install the package. The procedure is as follows (As a root user):

- tar xvfz downloaded_file.tar.gz
- cd new_directory
- python setup.py build
- python setup.py install

The latest version of the CLI can be found in the gLite CVS in the module org.glite.savannah.viewer/cli/

Usage
Installation script

- Installation script

Alternative: Manual installation (only as root)
Using SCLI

Instructions

bash-3.00$ ./savannah -h

Script to interface to savannah tracking system

Savannah CLI v. 1.0.1

Usage: savannah

    -h --help Show this help

Mandatory parameter:
    -u --user Savannah user id
    -p --password Savannah password

or you can specify a login file via:
    -l --loginfile Password file
        Syntax for file: first line user Id, second line password

    -t --tracker Savannah tracker [patch,bugs]
    -o --operate Operations (see below for supported operations)

Optional parameter (depending on operation):
    -i --item Savannah item number
    -n --name Savannah parameter name
    -v --value New value
    -g --group Savannah group (for gLite this is jra1mdw)
    -f --file file containing submit information in xml format

Supported operations are:

<table>
<thead>
<tr>
<th>Operation</th>
<th>required options</th>
</tr>
</thead>
<tbody>
<tr>
<td>set</td>
<td>[i,n,v]</td>
</tr>
<tr>
<td>list</td>
<td>[i]</td>
</tr>
<tr>
<td>get</td>
<td>[i,n]</td>
</tr>
<tr>
<td>get_available</td>
<td>[i,n]</td>
</tr>
<tr>
<td>clone</td>
<td>[i,g]</td>
</tr>
<tr>
<td>submit</td>
<td>[g,f]</td>
</tr>
</tbody>
</table>
Login option

- Login
  - Directly
    - bash-3.00$ ./savannah -u DUMMY_USER -p DUMMY_PASSWORD
  - Using a file
    - bash-3.00$ ./savannah -l pass.txt

Mandatory parameter:
- `u --user` Savannah user id
- `p --password` Savannah password

or you can specify a login file via:
- `l --loginfile` Password file

Syntax for file: first line user Id, second line password
Tracker option

Trackers: bugs, patch, ...

Terminal
bash-3.00$ ./savannah -h
Script to interface to savannah tracking system
Savannah CLI v. 1.0.1
Usage: savannah
   -t --tracker Savannah tracker [patch,bugs]
   -o --operate Operations (see below for supported operations)

Terminal
bash-3.00$ ./savannah -l pass.txt -t patch
## Operations

- `set`
- `list`
- `get`
- `get_available`
- `submit`
- `clone`

### Options for the operations:

- `item`
- `name`
- `value`
- `group`
- `file`

<table>
<thead>
<tr>
<th>Operation</th>
<th>required options</th>
</tr>
</thead>
<tbody>
<tr>
<td>set</td>
<td>[i,n,v]</td>
</tr>
<tr>
<td>list</td>
<td>[i]</td>
</tr>
<tr>
<td>get</td>
<td>[i,n]</td>
</tr>
<tr>
<td>get_available</td>
<td>[i,n]</td>
</tr>
<tr>
<td>clone</td>
<td>[i,g]</td>
</tr>
<tr>
<td>submit</td>
<td>[g,f]</td>
</tr>
</tbody>
</table>

---

Optional parameter (depending on operation):

- `-i --item` Savannah item number
- `-n --name` Savannah parameter name
- `-v --value` New value
- `-g --group` Savannah group (for gLite this is jralmdw)
- `-f --file` file containing submit information in xml format
**list operation**

- list:

  - `list -i (item number)`

```
bash-3.00$ ./savannah -l pass.txt -t patch -o list -i 2545
```

```bash
==>
group_id: 543
item_id: 2545
resolution_id: ['100']
status_id: ['1']
priority: ['3']
assigned_to: ['4002']
discussion_lock: ['0']
summary: MyProxy Updates, myproxy-config, yaim and info provider.
custom_ta1: glite-info-provider-release_R_1.0.0.5
custom_sb2: ['107']
custom_ta2: glite-info-provider-release-1.0.0-5.noarch.rpm
custom_ta8: glite-PX
custom_ta10: Addition of glite-info-provider-release
custom_ta3:
custom_ta6: https://twiki.cern.ch/twiki/bin/view/LCG/YaimGuide400
custom_ta7: Info provider configuration
custom_ta9: A new /etc/init.d/myproxy
custom_tf1:
custom_tf2:
release:
comment:
comment_type_id: ['100']
canned_response: 100
file_description:
```

```bash
==>
https://savannah.cern.ch//logout.php
[OK] Operation succesful.
bash-3.00$  ```
### Possible values

<table>
<thead>
<tr>
<th>glite release</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>None</td>
</tr>
<tr>
<td>101</td>
<td>gLite 3.0</td>
</tr>
<tr>
<td>102</td>
<td>gLite 3.1</td>
</tr>
<tr>
<td>103</td>
<td>LCG 2.7.0</td>
</tr>
<tr>
<td>104</td>
<td>gLite 3.0 WMS</td>
</tr>
<tr>
<td>107</td>
<td>TEST</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Status (resolution_id)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>TBD</td>
</tr>
<tr>
<td>102</td>
<td>Ready for Certification</td>
</tr>
<tr>
<td>103</td>
<td>In certification</td>
</tr>
<tr>
<td>104</td>
<td>In PreProduction</td>
</tr>
<tr>
<td>105</td>
<td>In Production</td>
</tr>
<tr>
<td>106</td>
<td>Obsolete</td>
</tr>
<tr>
<td>107</td>
<td>Rejected</td>
</tr>
<tr>
<td>108</td>
<td>Certified</td>
</tr>
<tr>
<td>109</td>
<td>In Configuration</td>
</tr>
<tr>
<td>110</td>
<td>Patch incomplete</td>
</tr>
<tr>
<td>111</td>
<td>In Configuration</td>
</tr>
<tr>
<td>112</td>
<td>With Provider</td>
</tr>
<tr>
<td>113</td>
<td>Rfi</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Status (status_id)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Open</td>
</tr>
<tr>
<td>3</td>
<td>Closed</td>
</tr>
</tbody>
</table>

### Priority (priority)

<table>
<thead>
<tr>
<th>value</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>On hold</td>
</tr>
<tr>
<td>3</td>
<td>Low</td>
</tr>
<tr>
<td>5</td>
<td>Normal</td>
</tr>
<tr>
<td>7</td>
<td>High</td>
</tr>
</tbody>
</table>
- `get` operation
  - `-i` (item number)
  - `-n` (attribute name)
get_available operation

- get_available: -i (item number) - n (attribute name)
Set operation

set:  
   - i (item number)   - n (attribute name)   - v (new value)

Changes:

- resolution_id (Status) --> From 100 (None) to 106 (Obsolete)
- status_id (Open/Closed) --> From 1 (open) to 3 (closed)
- priority --> From 3 (low) to 5 (normal)
### patch #2545: MyProxy Updates, myproxy-config, yaim and info provider.

**Submitted by:** Fidel <falfaroa>  
**Submitted on:** 2008-10-15 14:45

<table>
<thead>
<tr>
<th>Status</th>
<th>None</th>
<th>Open/Closed:</th>
<th>Open</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority</td>
<td>Low</td>
<td>Assigned to:</td>
<td>falfaroa</td>
</tr>
</tbody>
</table>

---

### patch #2545: MyProxy Updates, myproxy-config, yaim and info provider.

**Submitted by:** Fidel <falfaroa>  
**Submitted on:** 2008-10-15 14:45

<table>
<thead>
<tr>
<th>Status</th>
<th>Obsolete</th>
<th>Open/Closed:</th>
<th>Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority</td>
<td>5 - Normal</td>
<td>Assigned to:</td>
<td>falfaroa</td>
</tr>
</tbody>
</table>
Submit operation

- **submit:** -g (group name) -f (XML file name)

XML file

```xml
<!-- Example submit file for gLite patch tracker -->
-- <submit>
  <!-- assigned to -->
  <assigned_to>4002</assigned_to>
  <!-- Summary -->
  <summary>None</summary>
  <!-- gLite release: MANDATORY -->
  <custom_sb2>107</custom_sb2>
  <!-- RPM name(s): MANDATORY -->
  <custom_ta2>NONE</custom_ta2>
  <!-- Affected Metapackages: MANDATORY -->
  <custom_ta8>NONE</custom_ta8>
  <!-- Metapackage changes: MANDATORY -->
  <custom_ta10>NONE</custom_ta10>
  <!-- Configuration changes: MANDATORY -->
  <custom_ta7>NONE</custom_ta7>
  <!-- Release notes: MANDATORY -->
  <custom_ta9>NONE</custom_ta9>
</submit>
```
bash-3.00$ ./savannah -l pass.txt -t patch -o submit -g s-cli -f glite-patch-submit-example.xml

Note: submit is using submit button: name="login", value="Login"

== at https://savannah.cern.ch/patch/?func=commit&group=s-cli
assigned_to
Setting: assigned_to => 4002
summary
Setting: summary => None
custom_sb2
Setting: custom_sb2 => 107
custom_ta2
Setting: custom_ta2 => NONE
custom_ta8
Setting: custom_ta8 => NONE
custom_ta10
Setting: custom_ta10 => NONE
custom_ta7
Setting: custom_ta7 => NONE
custom_ta9
Setting: custom_ta9 => NONE
Note: submit is using submit button: name="submit", value="Submit"

The new created element is #2742

== at https://savannah.cern.ch//logout.php
[OK] Operation succesful.
bash-3.00$
patch #2742: None

Submitted by: Fidel <falfaroa>
Submitted on: 2009-01-15 13:51

Status: None
Priority: 5 - Normal
Discussion Lock: Unlocked
Summary: None

Summary:

Affected Metapackages:

Submitted item
Cloning operation

- **clone**: -g (group name) -i (item number)
patch #2545: MyProxy Updates, myproxy-config, yaim and info provider.

Submitted by: Fidel <alfaroa>
Submitted on: 2008-10-15 14:45

Status: None
Priority: 3 - Low
Discussion Lock: Unlocked
Summary:
MyProxy Updates, myproxy-config, yaim and info provider.

Affected Metapackages:
glite-PX

RPM name(s):

Contents:
- Fields
- Comments
- Attached bugs & patches
Useful links

• Savannah
  – https://savannah.cern.ch/

• Savannah Command Line Interface
  – Twiki: https://twiki.cern.ch/twiki/bin/view/EGEE/SavannahCommandLineInterface
  – Repository: http://jra1mw.cvs.cern.ch:8180/cgi-bin/jra1mw.cgi/org.glite.savannah.viewer/cli/
  – Contact person: Fidel.Alfaro.Almagro@cern.ch

• Libraries used:
  – Twill: http://darcs.idyll.org/~t/projects/twill-0.9.tar.gz
  – Beautiful Soup: http://www.crummy.com/software/BeautifulSoup/download/BeautifulSoup.tar.gz
  – PyXML: http://prdownloads.sourceforge.net/pyxml/PyXML-0.8.4.tar.gz
  – ClientForm: http://pypi.python.org/packages/source/C/ClientForm/ClientForm-0.2.9.tar.gz

QUESTIONS?