

OpenNebula Sunstone SSP Auth module
1.0

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Chapter 1

SSP Cloud Auth module for OpenNebula Sunstone

1.1 Description

This is a new authentication module for OpenNebula Sunstone. In its name SSP means Simple SAML PHP (<http://simplesamlphp.org/>). SSP Cloud Auth module is useful, when a SingleSignOn is login needed, which service is realised with SimpleSAMLphp. In this case, login handled by SimpleSAMLphp and so the Sunstone auth module (this one) makes only the identification of the users.

If new user wants to login, this module creates a new account for the user.

1.2 Configuration

Configuration file is at the end of the main Sunstone configuration file (sunstone-server.conf).

Chapter 2

Namespace Index

2.1 Namespace List

Here is a list of all namespaces with brief descriptions:

SSPCloudAuth	9
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Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

SSP_Helper	
Helper class to call methods in SSPCloudAuth module	11

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

ssp_helper.rb	17
SSPCloudAuth.rb	17

Chapter 5

Namespace Documentation

5.1 SSPCloudAuth Namespace Reference

Functions

- def `do_auth`
original do_auth function gets login datas from SimpleSAMLphp and authenticates the user if new user wants to login, then creates its user updates user's group

Variables

- `sessionid`
- `session`

5.1.1 Function Documentation

5.1.1.1 `def SSPCloudAuth::do_auth (env, params = {})`

original do_auth function gets login datas from SimpleSAMLphp and authenticates the user if new user wants to login, then creates its user updates user's group

Parameters

<code>params['ssp_sessionid']</code>	SSP session id from cookie
--------------------------------------	----------------------------

Returns

username if authentication success

Definition at line 52 of file SSPCloudAuth.rb.

5.1.2 Variable Documentation

5.1.2.1 `SSPCloudAuth::session`

Definition at line 41 of file `SSPCloudAuth.rb`.

5.1.2.2 `SSPCloudAuth::sessionid`

Definition at line 41 of file `SSPCloudAuth.rb`.

Chapter 6

Class Documentation

6.1 SSP_Helper Class Reference

Helper class to call methods in [SSPCloudAuth](#) module.

Public Member Functions

- def [initialize](#)
initalize some instance variable
- def [create_user](#)
creating new user
- def [update_group](#)
update user's group or create it's group
- def [get_credential](#)
get username and password from \$ONE_AUTH file
- def [get_userid](#)
get user's ID
- def [get_groupid](#)
get group ID of a group
- def [create_group](#)
creating new group
- def [generate_password](#)
create random password for new users
- def [get_ssp_session](#)
get ssp session variable in JSON format
- def [authorized?](#)
is user authorized in ssp?

Public Attributes

- [one_xmlrpc](#)
- [one_auth](#)
- [one_location](#)
- [config](#)

6.1.1 Detailed Description

Helper class to call methods in [SSPCloudAuth](#) module.

Definition at line 18 of file ssp_helper.rb.

6.1.2 Member Function Documentation

6.1.2.1 `def SSP_Helper::authorized? (sessionid)`

is user authorized in ssp?

Parameters

<i>sessionid</i>	ssp session id from cookie
------------------	----------------------------

Returns

true if user is authorized

Definition at line 179 of file ssp_helper.rb.

6.1.2.2 `def SSP_Helper::create_group (groupname)`

creating new group

Parameters

<i>groupname</i>	groupname of group to be created
------------------	----------------------------------

Definition at line 141 of file ssp_helper.rb.

6.1.2.3 `def SSP_Helper::create_user (username)`

creating new user

Parameters

<i>username</i>	username of user to be created
-----------------	--------------------------------

Definition at line 48 of file ssp_helper.rb.

6.1.2.4 def SSP_Helper::generate_password ()

create random password for new users

Returns

random password

Definition at line 155 of file ssp_helper.rb.

6.1.2.5 def SSP_Helper::get_credential ()

get username and password from \$ONE_AUTH file

Returns

username and password in a Hash

Definition at line 85 of file ssp_helper.rb.

6.1.2.6 def SSP_Helper::get_groupid (*groupname*)

get group ID of a group

Parameters

<i>groupname</i>	groupname
------------------	-----------

Returns

group's ID

Definition at line 124 of file ssp_helper.rb.

6.1.2.7 def SSP_Helper::get_ssp_session (*sessionid*)

get ssp session variable in JSON format

Parameters

<i>sessionid</i>	ssp session id from cookie
------------------	----------------------------

Returns

ssp_session ssp session in JSON format

Definition at line 162 of file ssp_helper.rb.

6.1.2.8 `def SSP_Helper::get_userid (username)`

get user's ID

Parameters

<i>username</i>	username
-----------------	----------

Returns

user's ID

Definition at line 106 of file ssp_helper.rb.

6.1.2.9 `def SSP_Helper::initialize ()`

initalize some instance variable

Definition at line 23 of file ssp_helper.rb.

6.1.2.10 `def SSP_Helper::update_group (username, groupname)`

update user's group or create it's group

Parameters

<i>username</i>	username's group will be updated
<i>groupname</i>	user's group

Definition at line 63 of file ssp_helper.rb.

6.1.3 Member Data Documentation**6.1.3.1** `SSP_Helper::config` [read, write]

Definition at line 20 of file ssp_helper.rb.

6.1.3.2 `SSP_Helper::one_auth` [read, write]

Definition at line 20 of file ssp_helper.rb.

6.1.3.3 `SSP_Helper::one_location` [read, write]

Definition at line 20 of file ssp_helper.rb.

6.1.3.4 SSP_Helper::one_xmlrpc [read, write]

Definition at line 20 of file ssp_helper.rb.

The documentation for this class was generated from the following file:

- [ssp_helper.rb](#)

Chapter 7

File Documentation

7.1 ssp_helper.rb File Reference

Classes

- class [SSP_Helper](#)
Helper class to call methods in [SSPCloudAuth](#) module.

7.2 SSPCloudAuth.rb File Reference

Namespaces

- namespace [SSPCloudAuth](#)

Functions

- def [SSPCloudAuth::do_auth](#)
original do_auth function gets login datas from SimpleSAMLphp and authenticates the user if new user wants to login, then creates its user updates user's group

Variables

- [DIR](#) = File.dirname(__FILE__)
- [SSPCloudAuth::sessionid](#)
- [SSPCloudAuth::session](#)

7.2.1 Variable Documentation

7.2.1.1 **DIR** = `File.dirname(__FILE__)` [`static`]

Definition at line 17 of file SSPCloudAuth.rb.

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