OpenNebula Sunstone SSP Auth module

1.0

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Contents

1 SSP Cloud Auth module for OpenNebula Sunstone **1**

1.1 Description 1

1.2 Configuration 1

2 Namespace Index **3**

2.1 Namespace List 3

3 Class Index **5**

3.1 Class List 5

4 File Index **7**

4.1 File List 7

5 Namespace Documentation **9**

5.1 SSPCloudAuth Namespace Reference 9

5.1.1 Function Documentation 9

5.1.1.1 do_auth 9

5.1.2 Variable Documentation 10

5.1.2.1 one_auth 10

5.1.2.2 one_location 10

5.1.2.3 one_xmlrpc 10

5.1.2.4 session 10

5.1.2.5 sessionid 10

6 Class Documentation **11**

6.1 SSP_Helper Class Reference 11

6.1.1 Detailed Description 12

6.1.2 Member Function Documentation 12
6.1.2.1 authorized? 12
6.1.2.2 create_group 12
6.1.2.3 create_user 12
6.1.2.4 generate_password 13
6.1.2.5 get_credential 13
6.1.2.6 get_groupid 13
6.1.2.7 get_ssp_session 13
6.1.2.8 get_userid 14
6.1.2.9 initialize 14
6.1.2.10 update_group 14
6.1.3 Member Data Documentation 14
6.1.3.1 config 14
6.1.3.2 one_auth 14
6.1.3.3 one_location 15
6.1.3.4 one_xmlrpc 15

7 File Documentation **17**

7.1 ssp_helper.rb File Reference 17
7.2 SSPCloudAuth.rb File Reference 17
7.2.1 Variable Documentation 18
7.2.1.1 DIR 18

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 Simple SAML PHP. In this case, login handled by Simple SAML PHP 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

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 Simple SAML PHP and authenticates the user if new user wants to login, then creates its user updates user's group

Variables

- one_xmlrpc
- one_auth
- one_location
- 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 Simple SAML PHP and authenticates the user if new user wants to login, then creates its user updates user's group

Parameters

params['one_xmlrpc']	ONE_XMLRPC enviroment variable
params['one_auth']	ONE_AUTH enviroment variable
params['one_location']	ONE_LOCATION enviroment variable

params['ssp_sessionid']	SSP session id from cookie

Returns

username if authentication success

Definition at line 58 of file SSPCloudAuth.rb.

5.1.2 Variable Documentation

5.1.2.1 SSPCloudAuth::one_auth

Definition at line 41 of file SSPCloudAuth.rb.

5.1.2.2 SSPCloudAuth::one_location

Definition at line 41 of file SSPCloudAuth.rb.

5.1.2.3 SSPCloudAuth::one_xmlrpc

Definition at line 41 of file SSPCloudAuth.rb.

5.1.2.4 SSPCloudAuth::session

Definition at line 41 of file SSPCloudAuth.rb.

5.1.2.5 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

sessionid	ssp session id from cookie

Returns

true if user is authorized

Definition at line 181 of file ssp_helper.rb.

6.1.2.2 def SSP_Helper::create_group (*groupname*)

creating new group

Parameters

groupname	groupname of group to be created

Definition at line 143 of file ssp_helper.rb.

6.1.2.3 def SSP_Helper::create_user (*username*)

creating new user

Parameters

username	username of user to be created

Definition at line 50 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 157 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 87 of file ssp_helper.rb.

6.1.2.6 def SSP_Helper::get_groupid (*groupname*)

get group ID of a group

Parameters

groupname	groupname

Returns

group's ID

Definition at line 126 of file ssp_helper.rb.

6.1.2.7 def SSP_Helper::get_ssp_session (*sessionid*)

get ssp session variable in JSON format

Parameters

sessionid	ssp session id from cookie

Returns

ssp_session ssp session in JSON format

Definition at line 164 of file ssp_helper.rb.

6.1.2.8 def SSP_Helper::get_userid (*username*)

get user's ID

Parameters

username	username

Returns

user's ID

Definition at line 108 of file ssp_helper.rb.

6.1.2.9 def SSP_Helper::initialize (*one_xmlrpc = ''*, *one_auth = ''*, *one_location = ''*)

initalize some instance variable

Parameters

one_xmlrpc	ONE_XMLRPC enviroment variable
one_auth	ONE_AUTH enviroment variable
one_location	ONE_LOCATION enviroment variable

Definition at line 26 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

username	username's group will be updated
groupname	user's group

Definition at line 65 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 Simple SAML PHP and authenticates the user if new user wants to login, then creates its user updates user's group

Variables

- DIR = File.dirname(__FILE__)
- SSPCloudAuth::one_xmlrpc
- SSPCloudAuth::one_auth
- SSPCloudAuth::one_location
- 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.

Index

DIR
    SSPCloudAuth.rb, 18
SSP_Helper, 11
    authorized?, 12
    config, 14
    create_user, 12
    get_groupid, 13
    get_userid, 13
    initialize, 14
    one_auth, 14
    one_xmlrpc, 15
SSPCloudAuth, 9
    do_auth, 9
    one_auth, 10
    session, 10
    sessionid, 10
SSPCloudAuth.rb, 17
    DIR, 18
authorized?
    SSP_Helper, 12
config
    SSP_Helper, 14
create_group
    SSP_Helper, 12
create_user
    SSP_Helper, 12
do_auth
    SSPCloudAuth, 9
get_credential
    SSP_Helper, 13
get_groupid
    SSP_Helper, 13
get_ssp_session
    SSP_Helper, 13
get_userid
    SSP_Helper, 13
initialize
    SSP_Helper, 14
one_auth
    SSP_Helper, 14
    SSPCloudAuth, 10
one_location
    SSP_Helper, 14
    SSPCloudAuth, 10
one_xmlrpc
    SSP_Helper, 15
    SSPCloudAuth, 10
session
    SSPCloudAuth, 10
sessionid
    SSPCloudAuth, 10
ssp_helper.rb, 17
update_group
    SSP_Helper, 14