stonebranch

Universal Task Documentation

Universal Automation Center support to add and remove user

UT-ADD-USER-CSV-LINUX

Associated Activities:

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CONFIDENTIALITY INFORMATION

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Revision	Date	Author	Changes
00	20180910	Nils Buer	Initial Document (WIP)

Abstract:

This Universal Task allows to mass add and remove users from a Universal Controller Group. The data to add and/or remove users from a group is provided by a CSV file loaded to the Universal Controller script library.

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1 Disclaimer

No support and no warranty are provided by Stonebranch GmbH for this document and the related Universal Task. The use of this document and the related Universal Task is on your own risk.

Before using this task in a production system, please perform extensive testing.

Stonebranch GmbH assumes no liability for damage caused by the performance of the Universal Tasks

2 Introduction

The here described Universal Task allows to mass add and remove users from a Universal Controller Group. The data to add and/or remove users from a group is provided by a CSV file loaded to the Universal Controller script library. The Universal Task uses the REST API of the Universal Controller to add and remove users from a group. The Rest API commands are executed using the Python requests module.

Some details about the universal task to add and remove users from a group:

- The Universal Task uses the REST API of the Controller to add and remove users
- The User to add and remove from a group are provided by CSV file loaded to the Universal Controller Script library
- The Universal Task supports both Universal Agent for Linux/Unix and Windows
- You can select different log-levels e.g. Info and debug
- All Passwords are encrypted using Controller Credentials

3 Installation

3.1 Software Requirements for Linux Agent

Universal Template name: UT-ADD-USER-CSV-LINUX

Related UAC XML Files for template and task: [1]:

- Python 2.7.x installed on a Linux server where a Universal Agent is installed.
- For Python the following modules are required:
 - sys, for output re-direct processing
 - datetime, date and time stamps for messages
 - requests to perform the REST API calls
 - logging, for python loglevel support
- Universal Controller V6.4.7.0 or higher
- Universal Agent V6.4.2.2 or higher installed on a Linux Server

3.2 Installation Steps

The following describes the installation steps:

1. Install Python 2.7.x for Linux on any Linux Server running a Universal Agent.

Official Download link: https://www.python.org/downloads/

Note: The check the current Python Version type in a shell: python -V (capital V)

2. Add the required python modules

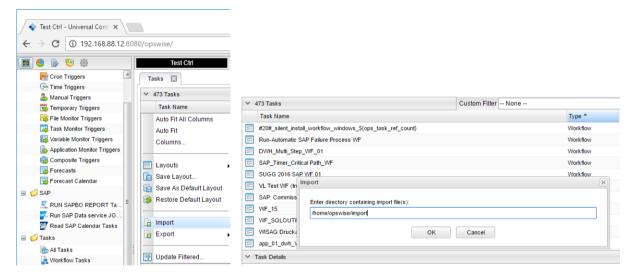
In a command shell as sudo or root:

• pip install requests

It is assumed that the modules logging, sys, datetime are already available. If not install them via pip.

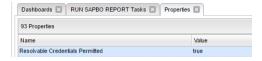
3. Import the Universal Task including the Universal Template to your Controller

Go to "All Tasks" and load via the Import functionality the Universal Task configuration into the Controller.



4 Universal Task Configuration

1. Activate: Resolvable Credentials in Universal Automation Center properties:



2. Create the CVS file to add an remove users

You can copy and paste the CSV to the script library or load a CSV from an external file.

The CSV file has the following structure:

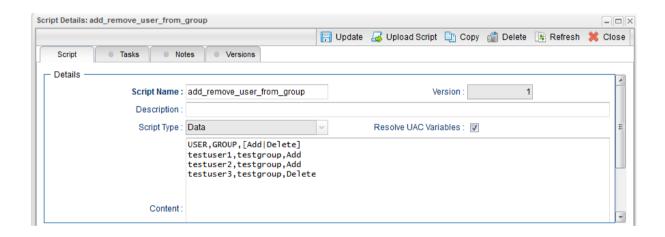
USER, GROUP, [Add | Delete]

testuser1, testgroup, Add

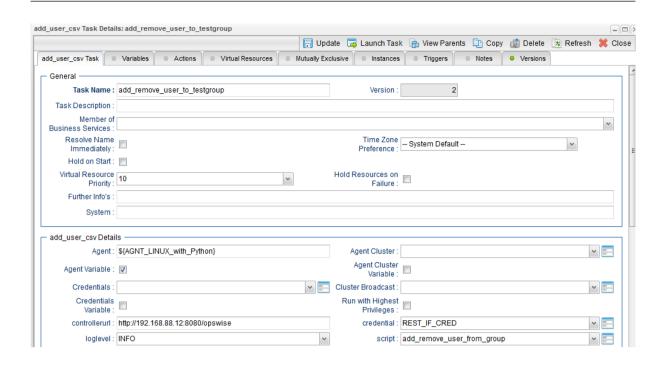
testuser2,testgroup,Add

testuser3,testgroup,Delete

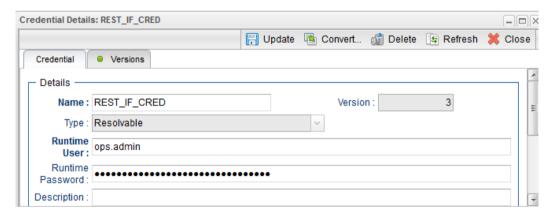
Example:



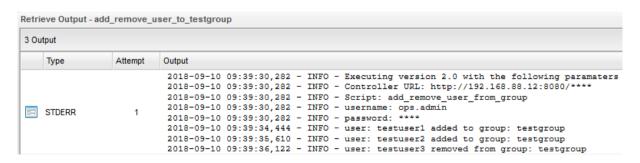
3. Fill Out the Universal Task to add and remove users from group



Credential for Universal Task:



Task Output:



Description:

Field	Description
credential	Universal Controller REST API credentials. (User Credentials with the rights to use the REST API and to add and remove users from a group)
Loglevel	log level: DEBUG, INFO, WARNING, ERROR, CRITICAL
Agent	Need to a Linux or Windows agent, which is installed on a server with at least python 2.7. and the requests module
Controllerurl	url of the Universal Controller e.g. http://192.168.88.12:8080/opswise or for cloud controller: .stonebranch.cloud">https://customer>.stonebranch.cloud

5 Test Cases

The following basic test cases has been performed:

Case#	Assumed behavior	Result
Add two users to a group USER,GROUP,[Add Delete] testuser1,testgroup,Add testuser2,testgroup,Add	Two users added 2018-09-10 09:51:46,042 - INFO - user: testuser1 added to group: testgroup 2018-09-10 09:51:46,686 - INFO - user: testuser2 added to group: testgroup	Correct
Remove two users from a group USER,GROUP,[Add Delete] testuser1,testgroup,Delete testuser2,testgroup,Delete	Two user removed 2018-09-10 09:53:03,997 - INFO - user: testuser1 removed from group: testgroup 2018-09-10 09:53:04,486 - INFO - user: testuser2 removed from group: testgroup	Correct
Add two users and remove one user from group USER,GROUP,[Add Delete] testuser1,testgroup,Add testuser2,testgroup,Add testuser3,testgroup,Delete	Two users added one removed 2018-09-10 09:39:34,444 - INFO - user: testuser1 added to group: testgroup 2018-09-10 09:39:35,610 - INFO - user: testuser2 added to group: testgroup 2018-09-10 09:39:36,122 - INFO -	Correct

Case#	Assumed behavior	Result
	user: testuser3 removed from group: testgroup	
Add a user to a group that does not	Task fails:	Correct
exists USER,GROUP,[Add Delete] testuser1,testgroup2,Add	2018-09-10 09:54:06,181 - CRITICAL - Universal Controller Groups API (READ Group) Exit Code <response [404]></response 	
testuser2,testgroup2,Add	2018-09-10 09:54:06,181 - CRITICAL - User group with name "testgroup2" does not exist.	
Add a non-existing user to a group	Task fails:	Correct
USER,GROUP,[Add Delete]	One user created, one fails	
testuser1,testgroup,Add testuser2,testgroup2,Add	2018-09-10 10:03:24,087 - INFO - user: testuser1 added to group: testgroup	
	2018-09-10 10:03:24,100 - CRITICAL - Universal Controller Groups API (READ Group) Exit Code <response [404]></response 	
	2018-09-10 10:03:24,101 - CRITICAL - User group with name "testgroup2" does not exist.	
Wrong controllerurl		Correct
Add a user to a group, user already	User are created again:	Correct
exists in the group USER,GROUP,[Add Delete]	2018-09-10 09:56:48,661 - INFO - user: testuser1 added to group: testgroup	
testuser1,testgroup2,Add testuser2,testgroup2,Add	2018-09-10 09:56:49,140 - INFO - user: testuser2 added to group: testgroup	
Provide wrong command in csv file	Task fails:	Correct
"remove" instead of "Delete"	2018-09-10 09:57:53,216 - ERROR - Action must be Add or Delete the provided action Remove does not exist	
Remove non existing user from a group	Task goes to success.	To improve
USER,GROUP,[Add Delete] testuser1,testgroup,Delete	2018-09-10 10:06:11,334 - INFO - user: testuser1 removed from group: testgroup	Note: if a non existing user is
testuser2,testgroup,Delete testuser3,testgroup,Delete	2018-09-10 10:06:11,904 - INFO - user: testuser2 removed from group: testgroup	removed the task still goes to success,

Case#	Assumed behavior	Result
	2018-09-10 10:06:12,366 - INFO - user: testuser3 removed from group: testgroup	because there is currently no check implemente d if the user exists in the group

6 Document References

This document references the following documents:

Ref#	Description
[1] XML extract of Universal Task	UAC XML extract of the Universal Template
	 ops_unv_tmplt_771f4b096eba43ce8f302662cf9a8f5
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