

Agent User Scripting

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Overview

As of version 7.1.3268, a user script may be placed on the agent which the agent will run periodically. This script can produce a user description which is displayed in the computers table of Site Manager and can be used to disable scheduled backups in Site Manager.

The intended use for this script is to provide a mechanism for user scripting to display useful information to the server such as asset IDs and other nonstandard information specific to each computer and to provide a mechanism for the Site Manager administrator to disable backups based on installation specific details. An example of this would be a script which detects that a laptop is connected to the network via a VPN and disables backups until the computer is back in the office.

Setting Up Scripting

The Agent will look for a script at the path **C:\Program Files\Macrium\Agent\Scripts\script.cmd**

This script is executed as a Windows batch file/command script. Powershell scripts, executable files or any other sort of script may be called from this **script.cmd** file.

Running the Script

The Agent will run the script and send the results to the Site Manager server under the following conditions:

- When the Macrium Agent service starts up
- When any file in the **C:\Program Files\Macrium\Agent\Scripts** folder changes
- When any value is written to the **HKEY_LOCAL_MACHINE\SOFTWARE\Macrium\CMCAgent\UserScripts** registry key
- Every 30 minutes

Script activity is logged in the **c:\programdata\Macrium\SiteManager\AgentUserScript.log** file

Script output

The script should produce the following output:

- User description - any text outputted to standard out (e.g. with the 'echo' command) will be shown in Site Manager in the "User Description" column of the Computers table
- Operating Mode - the return code of the script determines the user-set operating mode of the agent. The following

Script Return Value	Operating Mode	Description
0	Normal	The Agent is running normally and all scheduled backups are being run
-1	Ignoring scheduled backups	<p>The Agent should not run backups. When this error code is returned, Site Manager will defer all scheduled backups for the agent until the user script starts returned normal status again.</p> <p>When the agent returns to normal status, any missed backups will be executed immediately as if the computer had been offline and Defer Missed Backups was set in the Site Manager schedule.</p> <p>This can be used for computers which move between networks and should not perform backups if they're connected over VPN or WiFi</p>
Any other value	Normal	Any other value is assumed to be an error code in the user script and the script execution is ignored

Viewing Script Results

For debugging purposes, script activity is logged in **c:\programdata\Macrium\SiteManager\AgentUserScript.log** on the agent computer.

The results of the script execution can be shown in the Computers table in Site Manager by enabling the "User Description" and "Operating Mode" columns which are hidden by default:

	Computer	Last Activity Result	Last Activity Time	Agent ...
▶	CLIENT1		14/06/2018 15:23	7.1.3268
▶	CLIENT2		31/05/2018 14:21	7.1.3268
▶	CLIENT3			68
▶	CLIENT4			68
▶	CLIENT5			68
▶	CLIENT6	Successful		68
▶	CLIENT7	Successful		68
▶	CLIENT8	Successful		68
▶	CLIENT9	Successful		68
▶	CLIENT10	Cancelled		68
▶	CLIENT11	Cancelled		68
▶	CLIENT12	Cancelled		68
▶	CLIENT13	Cancelled		68
▶	CLIENT14	Successful		68
▶	CLIENT15	Successful		68
▶	CLIENT16	Successful		68
▶	CLIENT17	Successful		68
▶	CLIENT18	Successful		68
▶	CLIENT19	Successful		68
▶	CLIENT20	Successful		68
▶	CLIENT21	Successful		68

Sort Ascending
Sort Descending
Columns
Filter

☒ Computer
☐ Description
☐ Reflect Edition
☐ Latest Activity
☒ Last Activity Result
☒ Last Activity Time
☒ Agent Version
☒ Windows Version
☐ Domain
☐ Active Directory Group
☒ Status
☒ User description
☒ Operating mode

These columns will show the script results:

User Description	Operating Mode
Example Custom Agent Status	Ignoring scheduled backups
	Normal
	Normal
	Normal
	Normal
	Normal
	Normal
	Normal

This output was produced from the user script below:

script.cmd

```
@echo off
echo Example Custom Agent Status
exit -1
```

Security

For security reasons, scripts must be placed in the **C:\Program Files\Macrium\Agent\Scripts** folder. This folder has write access to **Administrator** users only by default. If the permissions on this folder are manually changed by a system administrator, non-privileged users may be able to set or modify the script being run.

The Agent service runs the script as a non-privileged process using the **Network Service** account, regardless of what user the Agent service is configured to run as. This is to prevent any possibility of a user script being executed with Administrator privileges.