



Syncing GAuthLogon Setting

MANUUAL

RIBIG INC

<https://www.ribig.co/gauthlogon>



1. Domain Environment – when Folder Redirection or Roaming Profile is set up.....	2
1.1 Folder Redirection	2
1.2.1 [Basic - Redirect everyone's folder to the same location]-[Create a folder for each user under the root path].....	3
1.2.2 All other cases than [Basic - Redirect everyone's folder to the same location]-[Create a folder for each user under the root path].....	4
How To Set a path to “userSharedFolderOther” Attribute	5
SetUserAttr.exe.....	6
1.2 Roaming User Profile.....	7
2. Any Environment - Local Account, Microsoft Account, Domain Account	7
How to Configure:	8
2.1 Download and Install RClone.....	8
2.2 Configure RClone.....	9
2.3 Copy “rclone.exe”	11

About Syncing GAuthLogon Setting

GAuthLogon has the feature to share and sync the settings among multiple computers. When you set up an authenticator app for your account on a computer, you can use the app to sign in to your account on another computer. The key set up on a computer is shared among computers you use.

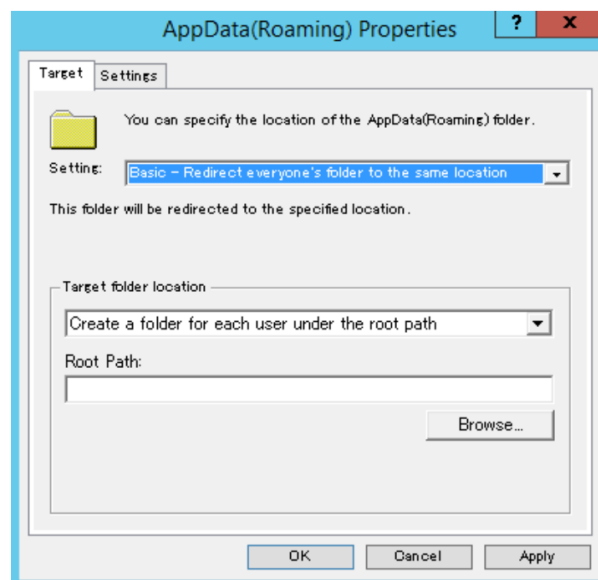
In domain environment, when you have either File Redirection or roaming profile configured, you can use the infrastructure for GAuthLogon setting syncing. If computers are connected to Internet, GAuthLogon setting syncing can be realized by use of a cloud storage of your choice. This sharing/syncing may be set up in any environments.

1. Domain Environment – when Folder Redirection or Roaming Profile is set up

1.1 Folder Redirection

GAuthLogon setting is saved under AppData(Roaming) folder. You need to redirect AppData(Roaming) to a server folder. Once a user's AppData(Roaming) folder is redirected, GAuthLogon setting will be automatically stored on a specified folder on the server.

However, GAuthLogon does not run in a logged-in user context. GAuthLogon is run by Windows before a user is authenticated. As such, GAuthLogon does not know where a user's AppData(Roaming) folder is redirected to. You will need to assist GAuthLogon to know the redirection destination by creating a registry entry. GAuthlogon will read the registry entry and use the destination path specified by the registry entry and read the setting file in the redirected folder on the server.



1.2.1 [Basic - Redirect everyone's folder to the same location]-[Create a folder for each user under the root path]

In this case, you only need to set the redirect root path to the registry entry.
GAuthLogon will be able to compose a user path by appending the name of the user trying to log on.

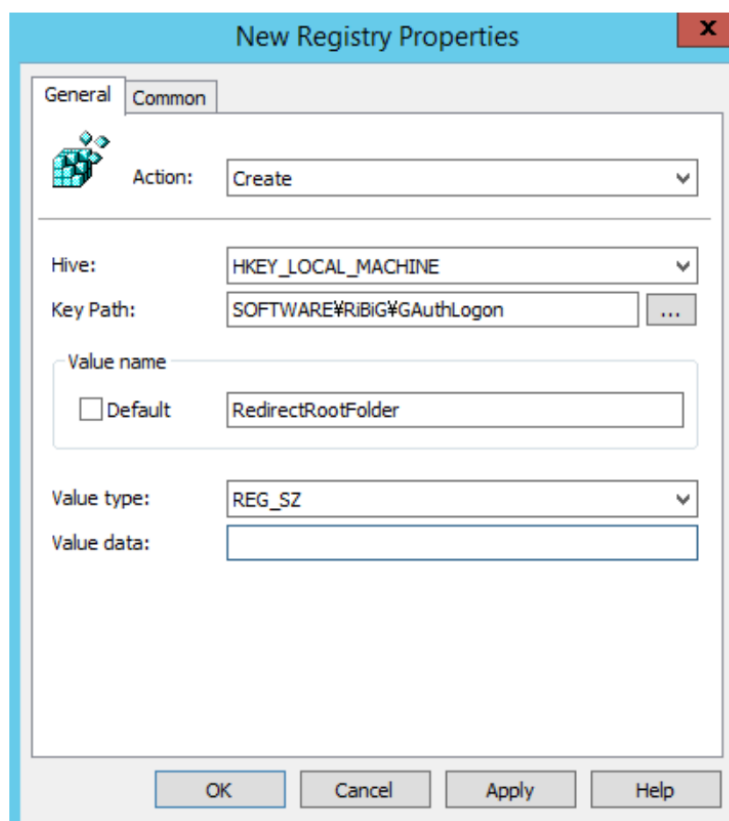
Registry Key

HKEY_LOCAL_MACHINE\SOFTWARE\RiBiG\GAuthLogon

Value:

RedirectRootFolder REG_SZ

Set the root path to RedirectRootFolder value.



If a user trying to log in does not have AppData(Roaming) folder not redirected, meaning GAuthLogon finds no redirected AppData(Roaming) path on the server for the user,

GAuthLogon reads the user's AppData(Roaming) folder.

1.2.2 All other cases than [Basic - Redirect everyone's folder to the same location]- [Create a folder for each user under the root path]

In this case, each user's redirect destination can be different. This requires you to set the redirected path per user. Create the registry entry named "RedirectRootFolder" and, instead of setting a path to it, just set "AD"

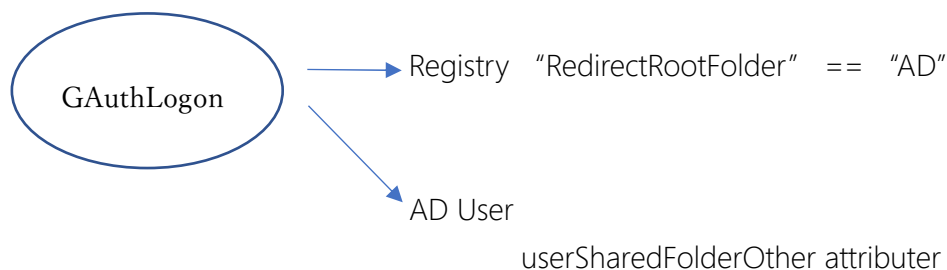
Registry Key:

HKEY_LOCAL_MACHINE\SOFTWARE\RiBiG\GAuthLogon

Value:

RedirectRootFolder REG_SZ "AD"

When GAuthLogon finds "AD" set for "RedirectRootFolder" entry, it will then read the user's attribute named "userSharedFolderOther" in ActiveDirectory.



"userSharedFolderOther" attribute is expected to hold the user's redirect destination path. If no path is set in the attribute, GAuthLogon will read from the user's local profile.

If you are already using "userSharedFolderOther" attribute for another purpose, you can select another attribute or create a new attribute to hold a redirected path to. When you so decide, you need to specify the attribute name in the registry as follows;

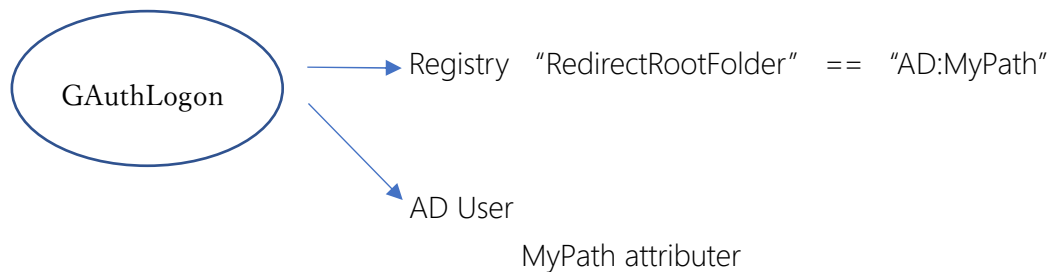
Registry Key:

HKEY_LOCAL_MACHINE\SOFTWARE\RiBiG\GAuthLogon

Value:

RedirectRootFolder REG_SZ "AD:(attribute name)"

If the attributer name is "RedirectPath" , then set "AD:RedirectPath."

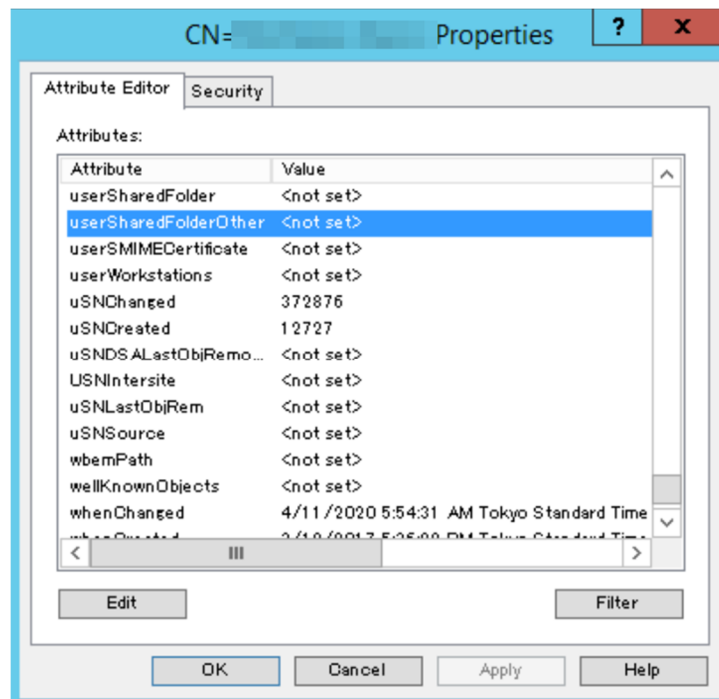


How to add a new attribute (Schema Extension)

<https://social.technet.microsoft.com/wiki/contents/articles/51121.active-directory-how-to-add-custom-attribute-to-schema.aspx>

How To Set a path to "userSharedFolderOther" Attribute

The basic way is to run "ADSI Edit" , open "CN=User" container, select the target user and open its property. Find "userSharedFolderOther" attribute and set a path to it.



SetUserAttr.exe

GAuthLogon comes with a command line tool to set a user attribute.

To run this tool, you must log in as an administrative user with the privilege to set a value to user attributes. The program will log in to AD in the same context of the logged-in user.

Run "setUserAttr.exe" in the command with the following parameters.

```
>setUserAttr -a (attribute name) -u (username) -f (redirect folder path)
```

-a attribute to set a redirect folder path to

(optional, default to "userSharedFolderOther)

-f redirect folder path to be set to the specified user' s attribute

-u user name whose attribute is to be set

Or

-g global group

Or

-G local group

Example

```
>setUserAttr -u user -f \\server\redirect\user
```

```
>setUserAttr -a redirectPath -u user -f \\server\redirect\%username%
```

```
>setUserAttr -a redirectPath -g "Folder Redirection Users" -f \\server\path
```

%username% will be replaced by GAuthLogon with the name of the user trying to log in.

```
>setUserAttr -a redirectPath -g "Folder Redirection Users"
```

Without -f option, the command will remove the attribute' s value.

We suggest you use PowerShell to select target users and run setUserAttr in PowerShell script.

1.2 Roaming User Profile

When you configure Roaming User Profile, AppData(Roaming) is roamed.

There is no need to configure for GAuthLogon. It can discover the roaming profile folder path on the server.

However, the path GAuthLogon can detect is not a complete one. The actual roaming profile path on the server has a suffix appended to the folder name; what GAuthLogon detects is the path without the suffix.

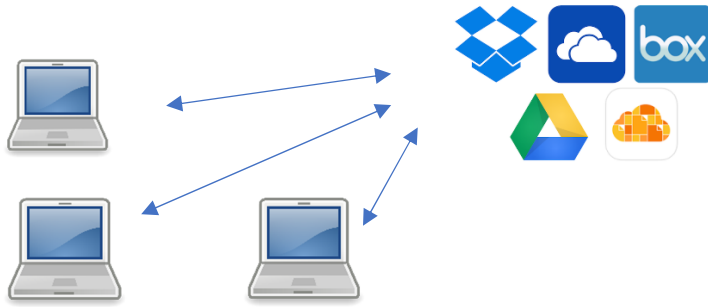
Windows Client OS	Windows Server OS	Suffix	Profile Folder
Windows NT 4.0 - Windows Vista	Windows NT Server 4.0 - Windows Server 2008	<i>none</i>	user
Windows 7	Windows Server 2008 R2	V2	user.V2
Windows 8.0 - 8.1*	Windows Server 2012 - 2012 R2*	V3	user.V3
Windows 8.1*	Windows Server 2012 R2*	V4	user.V4
Windows 10 (1507 to 1511)	Windows Server 2016	V5	user.V5
Windows 10 (1607 and later)		V6	user.V6

https://wiki.samba.org/index.php/Roaming_User_Profiles

GAuthLogon does not try to detect the version of OS it is running on and to append a suffix. Instead, it will suffix V6, V5 ... V2 in turn to the base folder name and tries to find GAuthLgon setting file under each folder. When it finds one, it will read the setting. It does not necessarily read the profile folder that matches the version of OS on which it is running.

2.Any Environment - Local Account, Microsoft Account, Domain Account

GAuthLogon setting can be synced using a cloud storage



You link an account on a computer to a cloud storage.

Account A on Computer1 is linked to OneDrive account.

Account B on Computer2 is linked to the same OneDrive account.

Microsoft account C on Computer3 is linked to the same OneDrive account.

In this example, all three accounts, A,B,C will share the same GAAuthLogon settings stored on OneDrive. Any other account that links to the same OneDrive account will also share the settings. When you change GAAuthLogon key on any of these accounts, it will be saved to OneDrive and, next time you log in on another computer, the key is effective.

Account names do not have to be the same. Any accounts can share and sync the settings, as long as they link to the same cloud storage account. But ini file mode must be set to "share" so that different users can share the same ini file.

How to Configure:

GAAuthLogon relies on RClone for copying a file between a local computer and a cloud storage. You need to install and configure RClone.

2.1 Download and Install RClone

Visit rclone web site and download an appropriate version.

<https://rclone.org/>

Unzip the whole content in the downloaded file to a folder.

2.2 Configure RClone

Log in to an account, open the command prompt in RClone folder (the one you placed rclone files) and run the following command. This will create a configuration file to connect to a cloud storage account.

```
>rclone config
```

```
e) Edit existing remote
n) New remote
d) Delete remote
r) Rename remote
c) Copy remote
s) Set configuration password
q) Quit config
e/n/d/r/c/s/q>n    ( select 'n' and return )
```

```
name>gauth          ( input "gauth" and return)
```

You will see a list of cloud storages. Select one (you must already have an account with the provider). Here we select OneDrive

```
Storage>23 [return]
```

For a choice with default set, just enter [return]

```
client_id > [return]
client_secret>[return]
```

```
Edit advanced config? (y/n)
```

```
y) Yes
n) No (default)
y/n>[return]
```

```
Remote config
```

Use auto config?

* Say Y if not sure

* Say N if you are working on a remote or headless machine

y) Yes (default)

n) No

y/n>[return]

The default web browser will open and you will be asked to provide your credential for OneDrive account. Once successfully authenticated, you will see this page

Success!

All done. Please go back to rclone.

Close the browser.

Choose a number from below, or type in an existing value

1 / OneDrive Personal or Business

\ "onedrive"

2 / Root Sharepoint site

\ "sharepoint"

3 / Type in driveID

\ "driveid"

4 / Type in SiteID

\ "siteid"

5 / Search a Sharepoint site

\ "search"

Your choice>1[return]

Found 1 drives, please select the one you want to use:

0: OneDrive (x x x x x x) id= x x x x x x x x x x

Chose drive to use:>0 (select the drive and return)

Found drive 'root' of type 'XXXX', URL: https://XXXXXXX

Is that okay?

y) Yes (default)

n) No

y/n>[return]

y) Yes this is OK (default)

e) Edit this remote

d) Delete this remote

y/e/d>[return]

e) Edit existing remote

n) New remote

d) Delete remote

r) Rename remote

c) Copy remote

s) Set configuration password

q) Quit config

e/n/d/r/c/s/q>q[return]

Now check to see if you can list the files / folders on the linked storage by issuing the following commands.

```
rclone lsd gauth:\ ( list the folders in the root )
```

```
rclone lsf gauth:\ (list the files in the root )
```

```
rclone ls gauth:\ ( list all files )
```

2.3 Copy "rclone.exe"

Copy rclone.exe to %ProgramFiles%\RiBiG\GAuthLogon\
GAuthLogon always runs "rclone.exe" in this folder.

To re-cap,

1. Install rclone and configure to connect to a cloud storage
2. Copy rclone.exe to GAuthLogon program folder

After you configure rclone, you should be able to find the following configuration file

`%UserProfile%\config\rclone\rclone.conf`

GAuthLogon will try to read from a cloud storage, only when

1. GAuthLogon finds "rclone.exe" in GAuthLogon program folder.
2. the rclone configuration file is found in user's profile folder.

Now run AddToken.exe, save and exit. If everything is set up correctly, you can find a file named "gauth.conf" in the root of the linked cloud storage. Sign out from the current account and try to sign in to the same account on the same computer. GAuthLogon will read from the linked cloud storage.

Log in to another account on the same computer or on another computer, install and configure rclone and set rclone path to GAuthLogon global setting file. You do not have to configure rclone manually; you can copy the rclone configuration file from another account. Copy the following file from an account where rclone is already configured to another account.

`%UserProfile%\config\rclone\rclone.conf`

You may have to create %UserProfile%\config\rclone folder manually.