

How-To- Set AutoDiscoverSiteScope using a sample script I created

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1. Script Introduction

I won't describe the AutoDiscover Site Scope (also called "Site Affinity") principles here, there are some nice and clear TechNet articles or [MVP articles like this one...](#)

I created a sample script here, which sets the **AutodiscoverSiteScope** according to a CAS-To-Site map that we must define in a CSV file. The input CSV file must have the following headers:

```
YourServer_1, YourServer_2, YourServer_3  
Site_Name1, Site_Name1, SiteName2  
ClientOnly_Site1, ClientOnly_Site1, ClientOnlySite2  
...
```

HINT: You can use Excel to create your CSV file with your CAS servers as headers, and for each header (=each server) the column will contain the AD sites you wish to associate with these CAS servers.

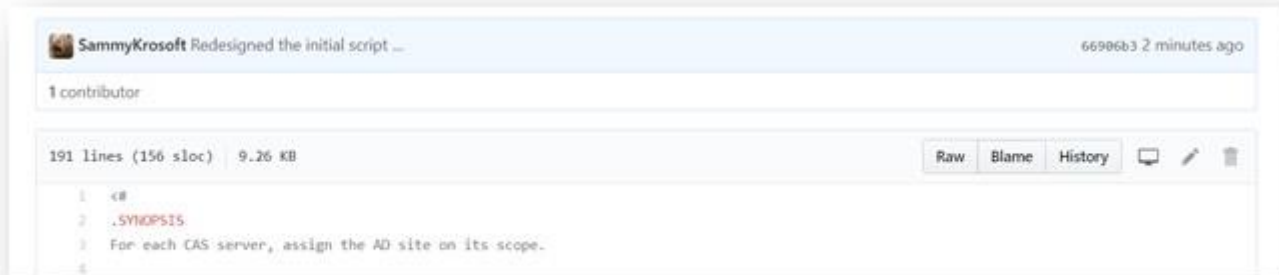
NOTE: The script generates a sample CSV file for you with 4 CAS servers to give you a better idea of how it should look like – see later this page.

2. Script Download

- To get the script, go to the following link:

<https://github.com/SammyKrosoft/PowerShell/blob/master/Set-CASSitesScopes.ps1>

- NOTE: you can click on the "RAW" button (see below), and just **copy/paste the text on your own "Set-CASSitesScopes.ps1" file through NOTEPAD**



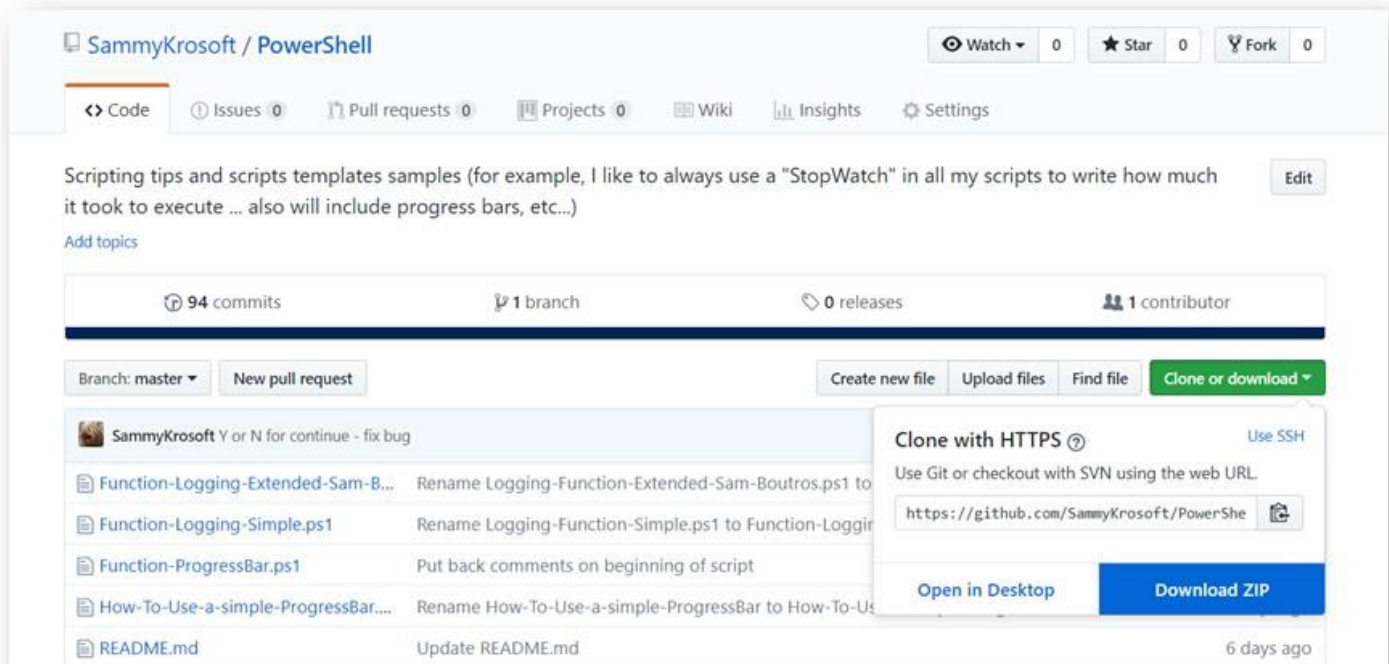
To get the RAW content of the script directly from an URL, to be able to copy/paste the text into your NOTEPAD and save it as Set-CASSitesScopes.ps1 (or the name of your choice), here is the link:

<https://raw.githubusercontent.com/SammyKrosoft/PowerShell/master/Set-CASSitesScopes.ps1>

Or you can download the whole scripts repository and use the "Set-CASSitesScopes.ps1" script directly – it's up to your preferences.

To download the whole scripts repository (mostly templates for now) :

- Go to my GitHub space <http://aka.ms/pwsh>
- Click on the below "Clone or download" green drop down list, and choose "Download Zip"



3. Integrated script help

Save the script on your computer, and get the synthesized, full help or examples-only by typing :

get-help .\Set-CASSitesScopes.ps1 => that will get you the basic help text
get-help .\Set-CASSitesScopes.ps1 -Examples => that will get you only the examples
get-help .\Set-CASSitesScopes.ps1 -Full => that will show you the full help with parameters, and examples

Here is the output with the Get-Help <Script_Path\Script_name.ps1> -Examples, try yourself with the -Full parameter of the Get-Help (2nd line above) to see the magic happening :-)

get-help .\Set-CASSitesScopes.ps1 -Examples

NAME

C:\scripts\Set-CASSitesScopes.ps1

SYNOPSIS

For each CAS server, assign the AD site on its scope.

----- EXAMPLE 1 -----

C:\PS>.\Set-CASSitesScopes.ps1 -UseSampleCASServers

will generate a sample CSV file from within the script with CAS1, CAS2, CAS3 and CAS4, and fake AD Site names, just to show you how the script works a little bit.
The Sample-AutoDiscoverSiteScope.csv will be located on the same directory where you are executing the script, and will show you how your CSV file for your real server must be configured.

----- EXAMPLE 2 -----

C:\PS>.\Set-CASSitesScopes.ps1

This will launch the script against your production servers using the default <Script Directory>\Classeur.csv file containing your CAS servers (as file header) and your AD sites for each CAS server (under each CAS server header)
This will NOT execute the AD Site scope setting because we don't specify the -EXECUTE parameter -> that's to test if we're good before executing the changes.
If Classeur.CSV doesn't exist, the script will tell you and exit.

----- EXAMPLE 3 -----

C:\PS>.\Set-CASSitesScopes.ps1 -Execute

Same as the above example, but this time it will execute the commands and assign the sites to the CAS servers, as defined in the default CLASSEUR.CSV.
If Classeur.CSV does not exist, the script will tell you and exit.

----- EXAMPLE 4 -----

C:\PS>.\Set-CASSitesScopes.ps1 -CSVFileName "C:\temp\AutreCSVFile.csv" -
Execute

will not only display the command that will set the AD sites from default CSV file (note : no -CSVFileName parameter used, then
will take the default C:\temp\Classeur1.csv file if it exists (otherwise if Classeur1.csv doesn't exist, will output an error message),
but will also Execute the actual command to set the CAS
AutodiscoverSiteScope (aka Site Affinity) as per the map de
fined in the file defined in the -CSVFileName parameter (in this example, C:\temp\AutreCSVFile.csv)

4. Script execution modes illustrations

Below is an execution example applied with the **-UseSampleCASServers** – will show in yellow background the type of PowerShell command it would execute (without executing it), and list the sites from the sample CSV file auto-generated by the script:

```
Machine: E2010-ND01.E2010Domain.com
V:\scripts>.\Set-CASSitesScopes.ps1 -UseSampleCASServers
The file we'll use to populate AutodiscoverSiteScope is : Sample-AutoDiscoverSiteScope.csv
Use Sample CAS Servers : True
Execute the AutoDiscoverSiteScope : False
Continue (Y/N) Y
Currently processing CAS1
Set-ClientAccessServer CAS1 -AutodiscoverSiteScope $SiteScope
Where SiteScope has 4 entries :
AD-ClientSite
AD-ClientSite
AD-ClientSite
AD-ClientSite
Testing only ... not executing actual command.
Currently processing CAS2
Set-ClientAccessServer CAS2 -AutodiscoverSiteScope $SiteScope
Where SiteScope has 4 entries :
AD-ClientSite
AD-ClientSite
AD-ClientSite
AD-ClientSite
Testing only ... not executing actual command.
Currently processing CAS3
Set-ClientAccessServer CAS3 -AutodiscoverSiteScope $SiteScope
Where SiteScope has 4 entries :
AD-ClientSite
AD-ClientSite
AD-ClientSite
AD-ClientSite
Testing only ... not executing actual command.
Currently processing CAS4
Set-ClientAccessServer CAS4 -AutodiscoverSiteScope $SiteScope
Where SiteScope has 4 entries :
AD-ClientSite
AD-ClientSite
AD-ClientSite
AD-ClientSite
Testing only ... not executing actual command.
The script took 0.0559822 seconds to execute...
[PS] C:\scripts>
```

And using my own CSV file with my LAB servers names as headers and the AD sites I want to set, but I don't want to execute (I don't specify the -EXECUTE parameter) :

```
Machine: E2010-NODE1.E2010Domain.com
[PS] C:\scripts>.\Sample-CASSiteScopes.ps1 -MyFile .\E2010PFECLOUDServers.csv_
```

It first shows me the current configuration of my Autodiscover Sites scopes (and save it in a file for future reference, documentation, or just in case I want to revert because I made mistake in my CSV file), then in blue background shows the current script actions, and ask you if you wish to continue or not :

```
Machine: E2010-NODE1.E2010Domain.com
Here is the current AutoDiscoverSiteScope configuration:
Name      AutoDiscoverSiteScope
-----
E2010-NODE2 (Default-First-Site-Name, AD_ClientSite1)
E2010-NODE1 (AD_ClientSite2, AD_ClientSite1, Default-First-Site-Name, AD_ClientSite3)

Configuration dumped into AutoDiscoverSiteScope_Config_Dump_08-April-2018-02-58-08-PM.csv file for later reference and
in case of misconfiguration
The file we'll use to populate AutoDiscoverSiteScope is : .\E2010PFECLOUDServers.csv
Use Sample CAS Servers : False
Execute the AutoDiscoverSiteScope : False
Note: Press Y/N to continue
```

NOTE: typing anything else than Y or N will keep asking you if you wish to continue or not

Then I chose to continue by typing "Y", and see the magic:

```
Y
Currently processing E2010-NODE2
Set-ClientAccessServer E2010-NODE2 -AutodiscoverSiteScope $SiteScope
Where SiteScope has 2 entries :
Default-First-Site-Name
AD_ClientSite1
Testing only ... not executing actual command.
Currently processing E2010-NODE1
Set-ClientAccessServer E2010-NODE1 -AutodiscoverSiteScope $SiteScope
Where SiteScope has 4 entries :
Default-First-Site-Name
AD_ClientSite1
AD_ClientSite2
AD_ClientSite3
Testing only ... not executing actual command.
The script took 0.0207753 seconds to execute...
[PS] C:\scripts>_
```

NOTE: since I didn't use the -Execute switch with the script, it will only display the Set- cmdlet with the options it would do if you launch the script using the -EXECUTE switch.

And now last example, I triple-checked above that these are the sites I want to set for my CAS servers, I now execute the script again but with the -EXECUTE parameter so that the changes are applied.

NOTE: the initial configuration before the change is always saved in a file for security and future reference, in the current directory and with the name and date/time tag of :

AutoDiscoverSiteScope_Config_Dump_08-April-2018-02-58-08-PM.csv

```
Machine: E2010-NODE1.E2010Domain.com
[PS] C:\scripts>.\Sample-CASSiteScopes.ps1 -MyFile .\E2010PFECLOUDServers.csv -Execute
```

NOTE: same command line as above, but with the -EXECUTE parameter this time

```
Machine: E2010-NODE1.E2010Domain.com
Here is the current AutoDiscoverSiteScope configuration:
Name      AutoDiscoverSiteScope
-----
E2010-NODE2 (Default-First-Site-Name, AD_ClientSite1)
E2010-NODE1 (AD_ClientSite2, AD_ClientSite1, Default-First-Site-Name, AD_ClientSite3)

Configuration dumped into AutoDiscoverSiteScope_Config_Dump_08-April-2018-03-01-42-PM.csv file for later reference and in case of misconfiguration
Validating the Script output
The file we'll use to populate AutoDiscoverSiteScope is : \E2010PFECLOUDServers.csv
Use Sample CAS Servers : False
Execute the AutoDiscoverSiteScope : True
Continue (Y/N) Y
```

NOTE: see the "Execute the AutoDiscoverSiteScope" shows "TRUE" now because we specified the -Execute parameter – compare with above, without specifying the -Execute parameter, it said "False"

And finally :

```
Y
Currently processing E2010-NODE2
Set-ClientAccessServer E2010-NODE2 -AutodiscoverSiteScope $SiteScope
Where SiteScope has 2 entries :
Default-First-Site-Name
AD_ClientSite1
Currently processing E2010-NODE1
Set-ClientAccessServer E2010-NODE1 -AutodiscoverSiteScope $SiteScope
Where SiteScope has 4 entries :
Default-First-Site-Name
AD_ClientSite1
AD_ClientSite2
AD_ClientSite3
Here is the !!NEW!! AutodiscoverSiteScope configuration:
Name      AutoDiscoverSiteScope
-----
E2010-NODE2 (Default-First-Site-Name, AD_ClientSite1)
E2010-NODE1 (AD_ClientSite2, AD_ClientSite1, Default-First-Site-Name, AD_ClientSite3)

The script took 0.215012 seconds to execute...
[PS] C:\scripts>_
```

NOTE: we also dump the resulting configuration of the AutoDiscoverSiteScope just to compare with the previous configuration – on my example it's the same because I ran the script multiple times already with the same CSV file