Universal EUC Sync Script

What is the Universal EUC Sync Script?

The Universal EUC Sync Script is a new way to sync your End-User Computing (EUC) environment's machines into the ControlUp configuration without requiring any external scripts or saving passwords. As long as you have added your EUC environment(s) into the ControlUp console, all of those machines can be added to the ControlUp configuration by running a script action. This functionality will be available in ControlUp v8.6.5+.

Who is it for?

This sync script will be for everyone who has added EUC environments into their ControlUp configuration and would like to gather additional metrics from those machines. As we know, EUC environments are constantly changing, as machines are added, removed, and replaced. This script will keep the ControlUp tree up-to-date with these changes.

- **I already have one or more sync scripts in my environment, do I have to update to this one?**
  - No, you do not need to update but the old versions will go out of support in the future.
- **Is there a benefit to switching to the new model?**
  - Yes, there are multiple benefits.
    - *It will be faster and will sync every one of your environments that you choose to sync with minimal configuration.*
    - *It will automatically update via the script library.*
    - *It will have additional functionality (like folder and site mappings).*
    - *Users with multiple scripts will consolidate to a single script.*

What are the prerequisites?

- ✓ You must be on ControlUp v**8.6.5** or newer.
- ✓ You must have ***EUC Environments*** added to your ControlUp tree.
- ✓ You must have a **ControlUp Monitor** to run the script against.

*This needs to be run on a **single monitor only**. Using multiple monitors can cause unforeseen issues.*

How do I enable the script?

The script can be added in a few easy steps.

1. Download the script from the script library.
2. Run the script against a ControlUp Monitor.
3. Fill out the required fields in the prompt (➞)
   - *Please do not leave fields blank*
4. Watch with delight as your ControlUp tree is configured with these new machines!

Command Line Arguments

Caption	
Folder Path (Example: folder\to\sync\to)	EUC Environments Sync
Add Brokers	Yes
Cleanup Folders/Machines that do not exist? (Leave Blank for No)	Yes
Force Add Machines (If not in DNS)	Yes
Exclusions List [defailt: No] (Comma Separate) (Can use wildcards)	No
Alternative Domain [Default: No] (FQDN)	No
Commit Changes?	Yes
Save Configuration File	Yes

Advanced Configuration

Can I remap the folders?

Yes, this is an advanced configuration. On the monitor that you will be running the script on, you will need to have a mapping file. This mapping file is located in the ProgramData folder (**"%ProgramData%\ControlUp\SyncScripts\maps.cfg"**) and you will need to edit this file manually. This essentially does a find and replace on the path of the folders. You can either remove a portion of the path completely or replace it. Or you can even add parts to the path.

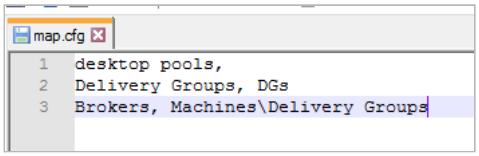
These are comma-separated per line, so every line must have a comma otherwise it may mess up the script.

Removes folder from the path (Requires comma at the end).
Example: org\EUC\Desktop Pools\IC ➡ org\EUC\IC

```
desktop pools,
```

Replaces Part of the path with the second half after the comma.
Example: org\EUC\Delivery Groups ➡ org\EUC\DGs

```
Delivery Groups, DGs
```



Replaces Part of the path with the second half after the comma, adding a folder.
Example: org\EUC\Brokers ➡ org\EUC\Machines\Brokers

```
Brokers, Machines\Brokers
```

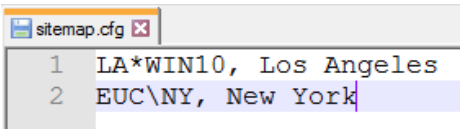
Can I map folders and machines to sites?

Yes, this is also an advanced configuration. On the monitor that you will be running the script on, you will need to have a site mapping file. This mapping file is located in the ProgramData folder (**"%ProgramData%\ControlUp\SyncScripts\sitemap.cfg"**) and you will need to edit this file manually. These mappings are comma-separated per line, so every line must have a comma otherwise it may mess up the script.

This file works by adding any kind of prefix/suffix with a wildcard so you can filter your machines any way you like. *These filters will apply to the folder path as well.*

Assigns site to criteria, examples below
Example: LA*Win10 ↔ LA-CU-Win10p01 ➡ Los Angeles

```
LA*WIN10, Los Angeles
```



Example: EUC\NY ↔ Org\EUC\NY\CTX-PVS-01 ➡ New York

```
EUC\NY, New York
```

Please try to be explicit as possible when using these wildcards to ensure proper site mapping.

Configuring Scheduled Trigger/Task

Scheduled Trigger

A Scheduled Trigger is a newer function of ControlUp! This will allow our monitors to run triggers on a set interval and even run an "**Automated Action**" linked to that trigger. This is a way to do routine tasks from inside of ControlUp without needing to create a scheduled task!

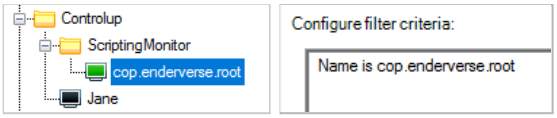
Prerequisites

- ✓ You will need to be **Licensed** for **Automated Actions**

  *Not licensed? See the **Scheduled Task** section to continue!

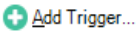
- ✓ You will need to have a **single** monitor inside its own folder for the scope or specify a **single** monitor name in the trigger's filter criteria.

- ✓ You will need to have a shared credential with rights to (Add/Remove) (Folders/Machines) in your ControlUp tree.
- ✓ You will need "**Create a trigger**" rights.

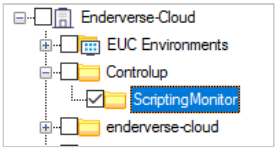
Creating the Trigger

To create a scheduled trigger just follow these steps!

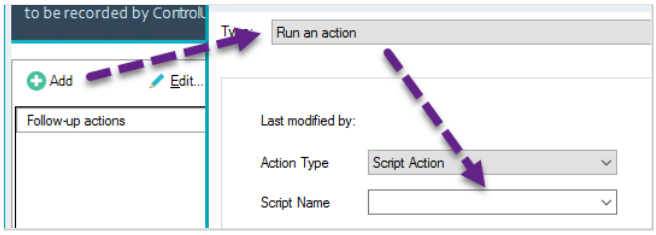
1. Inside the console click on the Triggers icon. ➡ 
2. When the window appears, click on the Add Trigger button on top of the window. ➡ 

3. From there you will want to click on the "Scheduled" icon and hit next. ➡ 

4. Select the Record type to "**Machine**" and frequency (**Recommended hourly**) but depending on your environment this could be different. Could be weekly, daily, or even as little as *15 minutes*.
5. You can skip the next page "**Filter Criteria**" just click next to move on.
6. From here you will need to select your scope (The Scripting Monitor from the Prerequisites section)

7. Now on the next page, select "**Add**" for the *follow-up actions* and select "Run an action" then select the script from the drop-down menu.

8. From there, click "**OK**" Then "**Next**" Now name your trigger and save, that's it!

Scheduled Task

Not licensed for Automated Actions? That's Okay! We can still set this up as a scheduled task!

Prerequisites

- ✓ Must have access to the ControlUp Monitor Server
- ✓ A service account with the following permissions
  - ↪ **Local Administrator** Rights
  - ↪ **Logon As Batch** Rights
  - ↪ Password **Never** Changes
  - ↪ Needs to have rights to (Add/Remove) (Folders/Machines) in your ControlUp tree
  - ↪ Powershell Execution Policy must be set to **Bypass** or **Unrestricted**

Run PowerShell as **Administrator**

```
Set-ExecutionPolicy Unrestricted
```

- ✓ Must have the script downloaded from the Controlup GitHub Repository
- ✓ Must run the script **manually** the **first time** to save the script configuration

Run PowerShell paste the following command *(Assumes the script path is "C:\Scripts\UniversalEUCConfig.ps1")*

```
Powershell.exe -File "C:\Scripts\UniversalEUCConfig.ps1" -FolderPath "EUC
Environments Sync" -AddBrokers "Yes" -Exclude "No" -Delete "Yes" -Domain "No"
-Force "No" -Preview "No" -VerboseDebug "No" -SaveConfig "Yes"
```

Creating the Scheduled Task

1. Open Task Scheduler (Start ➡ Run ➡ "taskschd.msc")
2. At the top click the Action Menu ➡ Create Task)
3. General Tab:
   - Name your task
   - Click on **Change User or Group…** then your Service Account
   - Check **Run whether user is logged on or not**
   - Check **Run with highest privileges**
4. Triggers Tab:
   - Click **New…**
   - Check the radio button **Daily**
   - Select the **start date/time** (The next day is best)
   - Check **Repeat task every: 1 hour**
   - Click **OK**
5. Actions Tab:
   - Click **New…**
   - Put your cursor in **Program/script:** and type **powershell.exe**
   - Put your cursor in **Add arguments(optional):** type **-File ".\UniversalEUCConfig.ps1"**
   - Put your cursor in **Start in (optional):** and type **"C:\Scripts"** (assuming C:\scripts is the location)
   - Click **OK**
6. General Tab:
   - Click **OK** then **enter your service account password**!
   - You can test by running, then refresh after a few minutes to see the status is completed (0x0)