

# 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 v8.6.5 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...	EUC Environments Sync
Add Brokers	Yes
Exclusions List [Default: No] (C...	No
Cleanup folders and machines ...	Yes
Log Path	C:\ProgramData\ControlUp\SyncScripts\Logs
How many days to keep Logs?	30
Commit changes?	No
Save Configuration	No
Enable Verbose Output (Can sl...	No
Get Help URL:	<a href="https://tinyurl.com/UESSDocumentation">https://tinyurl.com/UESSDocumentation</a>

# Basic Configuration

## Folder Path

[Default Value: EUC Environments Sync]

This will be the root folder where your EUC environments will sync too. By default it is a clone on the "EUC Environments" Folder with machine objects with the agents, not the extension data. Also note, you should not include the organization name, that is added by default.

## Add Brokers

[Default Value: Yes]

Adding Brokers will add your Citrix Delivery Controllers and/or Connection Servers as well as your Horizon Connection Servers.

## Exclusion List

[Default Value: No]

This feature you can comma separate filters with wildcards to exclude any paths/machines from being synced. In the example below, anything with Test or Dev in the full path to the machine will be excluded from being synced into the ControlUp machine inventory.

```
*test*,*dev*
```

## Cleanup Folders and Machines

[Default Value: Yes]

Enabling this feature will allow you the sync script to remove machines/folders that do not exist in your infrastructure. For example if you are using Horizon Instant Clones, and those machines are destroyed. Once the sync script runs again it will add any new clones and remove any clones that do not exist anymore.

## Log Path

[Default Value: C:\ProgramData\ControlUp\SyncScripts\Logs]

This is the location where the verbose logs will be saved to.

## How many days to keep logs

[Default Value: 30]

This is how many days the script will retain logs before removing logs older than x amount of days.

## Commit Changes

[Default Value: No]

This setting will commit changes or run the script in preview mode. By default we do not commit changes.

## Save Configuration

[Default Value: No]

In order to run the script you must save the configuration on the monitor you will execute the script. This will save all of the values chosen here for the script to run. In order to execute the script this value must be set to "No" as a safety precaution we do not run the script if you are saving the configuration.

# 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\folder\_map.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**).

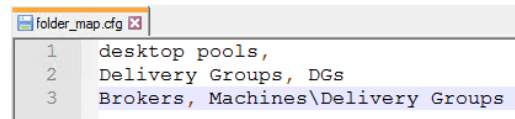
**Example:** org\EUC\Desktop Pools\IC → org\EUC\IC

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



```
1 desktop pools,
2 Delivery Groups, DGs
3 Brokers, Machines\Delivery Groups
```

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 to ControlUp sites?

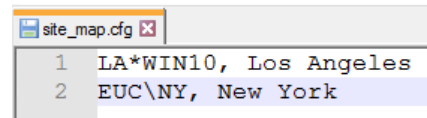
Yes, this is also an advanced configuration. On the monitor that you will be running the script on, you will need to have a site mapping file. This mapping file is located in the ProgramData folder ("%ProgramData%\ControlUp\SyncScripts\site\_map.cfg") and you will need to edit this file manually. These 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



```
1 LA*WIN10, Los Angeles
2 EUC\NY, New York
```

**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.

## Can I use custom DNS entries?

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

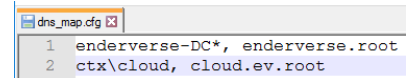
(`"%ProgramData%\ControlUp\SyncScripts\dns_map.cfg"`) and you will need to edit this file manually. These mappings are comma-separated per line, so every line must have a comma otherwise it may mess up the script.

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:** `Enderverse-DC*` → `Enderverse-DC01` → `enderverse.root`

`Enderverse-DC*, enderverse.root`



```
dns_map.cfg
1 enderverse-DC*, enderverse.root
2 ctx\cloud, cloud.ev.root
```

**Example:** `ctx\cloud` → `Org\ctx\cloud` → `CTX-PVS-01` → `cloud.ev.root`

`ctx\cloud, cloud.ev.root`



Please try to be explicit as possible when using these wildcards to ensure proper DNS 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!

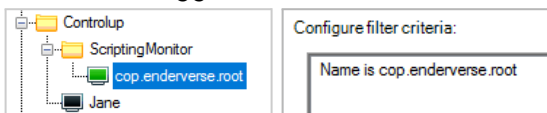
### Prerequisites

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

Automated Actions: Yes

\*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.

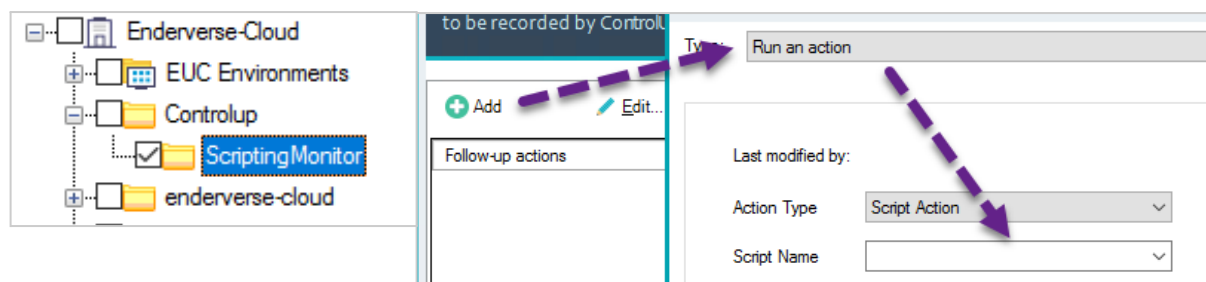


- ✓ You will need to have a shared credential with rights to (Add/Remove) (Folders/Machines) in your ControlUp tree.
- ✓ You will need “Create a trigger” rights.

### 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) 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.



7. From there, click “OK” Then “Next” Now name your trigger and save, that’s it!

# Scheduled Task

*Not licensed for ControlUp Automate? That's okay! We'll just set up 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 and modify 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)