

Remove Disabled Codes

Automation Anywhere Bot Utility

Overview

This Bot Utility scans an AA export ZIP, strips all disabled code, and delivers a clean, review-ready ZIP — eliminating clutter, accelerating peer reviews, and safeguarding production bots from accidental re-enablement.

What It Does

- ✓ Scans every bot file inside the exported ZIP
- ✓ Recursively finds **all** disabled nodes — including those deeply nested inside Loops, If blocks, Try/Catch, and branch conditions
- ✓ Removes them cleanly without touching any active logic
- ✓ Repacks the ZIP with the exact same folder structure
- ✓ Saves the cleaned ZIP alongside the original file with **_cleaned** appended to the filename
- ✓ Returns a full execution log that can be written to a text file

Key Benefits

Cleaner Codebase	Removes all disabled nodes instantly, making bots easier to read and maintain.
Faster Reviews	Audits and peer reviews take less time with no inactive steps cluttering the code.
Safer Production	Eliminates the risk of accidentally re-enabling disabled code in live environments.

Input / Output

Parameter	Type	Description
<code>input_zip</code>	String (file path)	Full path to the AA export .zip file
<code>output_zip</code>	String (file path)	Path to the cleaned ZIP — saved in the same folder as input
<code>log_file</code>	String	Complete execution log — write this to a .txt file using AA's Log to File command

Output file naming: If input is `C:\Bots\MyBot_Export.zip`, the output is automatically saved as `C:\Bots\MyBot_Export_cleaned.zip`.

Prerequisites

Requirement	Details
Python	3.7 or later
Standard libraries only	<code>json</code> , <code>os</code> , <code>zipfile</code> , <code>tempfile</code> — no pip installs required
Automation Anywhere	Version 360 or later (Python script task support)

★ **Zero External Dependencies** — Built entirely on Python's native libraries, requiring no additional installations or third-party packages to run.

How Disabled Nodes Are Detected

Value in bot file	Treated as
<code>true</code> (boolean)	Disabled

"true" (string)	Disabled
"True" (string)	Disabled
1 (integer)	Disabled
false / 0 / missing	Active — kept

Supported Node Structures

- Top-level nodes
- children arrays (Loop, Try, Catch)
- branches arrays (If / Else-If / Else conditions)
- Any depth of nesting combinations

Error Handling

Scenario	Behaviour
ZIP file not found	Raises FileNotFoundError with clear message
File is not a valid ZIP	Raises ValueError with clear message
File inside ZIP is not a bot file	Silently skipped
Bot file has no nodes key	Skipped — not a bot file

Example Log Output

```

Input ZIP : C:\Bots\MyProject_Export.zip
Output ZIP : C:\Bots\MyProject_Export_cleaned.zip

Files in ZIP (12 total):
Automation Anywhere\Bots\MainBot
Automation Anywhere\Bots\SubBot1
...

Bot file : MainBot
Nodes (top-lvl) : 45
Removing: comment | uid: alb2c3
Removing: logToFile | uid: d4e5f6
Removed : 2
Remaining : 43

=====
Bots processed : 2
Total nodes removed : 5
Output ZIP : C:\Bots\MyProject_Export_cleaned.zip
=====

```