lccAsyncCommands Manual

Contents

Description

This document describes how to use the lccAsyncCommands

lccAsyncCommands

is a Command Line program created to run one to many commands against one to many targets in a different thread for each, i.e. executing them all at the same time. This allows for checking the state of things at the same time across multiple targets. For example, you could check the system time against all your servers and verify how far they may be from each other.

You can also exclude or include information from the command results.

The program is controlled by a Logic File.

Program Logic

- Reads the Logic File
- loads all commands
- loads all target sets
- launches a thread for each target and executes the commands

Installation

- copy the lccAsyncCommands.exe to a folder
- create Logic File
- run lccAsyncCommands.exe

Using

Prerequisites: configure at least one Logic File.

The program will default to using a Logic File called:

lccAsyncCommands-logic.txt

in the same folder as the program. You can change to use by specifying a different one on the command line.

Starting

- run lccAsyncCommands.exe

Starting with an alternate Logic File

- Syntax: lccAsyncCommands.exe lcc:logicPath [Logic File]
- Example: lccAsyncCommands.exe lcc:logicPath ourLogic.txt

Logic File Description/Syntax

A Logic File is a Tab delimited text file. Any lines not recognized as a valid Key/Value pair, will be ignore and can be used as remarks/other.

The Logic File uses the syntax.
Syntax: **[Key]** *[tab]* **[Value]** … *[tab]* **[Value]**
Example: lcc:key value

Any extra tabs in a line after the expected ones are considered remarks and will be ignored. This is a nice way to document specific Key settings (see Log Levels in the Logic File example(s) for reference). Also, if you place a tab before a line, that will essentially make it a remark and will be ignored, which makes using/not using logic without removing quicker.

Any line not starting with an expected key is ignored, which makes placing remarks/formatting the logic easy.

Logic File

lcc:logLevel *(optional)(none to many per Logic File)*

Specifies what log information will be logged/shown. Provide a new line for each level desired.

Debug Levels

1 Checking Logic: displays checks against the Logic File.
2 Process Logic: display the logic being processed.
3 Process Command(s): display each command process.
4 Show Results In Window: display results from each command/thread.

Syntax: lcc:logLevel *[tab]* [#]

Example: lcc:logLevel 2
Example #2 (multiple): lcc:logLevel 2
lcc:logLevel 4

lcc:logPath *(optional, but highly recommended)(one per Logic File)*

The path/root name of the Log File. The program will place the '.log' extension automatically and will also append a Year/Month date.

lcc:heartbeat *(optional)(one per Logic File)*

Will display a 'heartbeat' status about current processing every # seconds. Value must be a number.

Syntax: lcc:heartbeat *[tab]* [#]
Example: lcc:heartbeat 2

lcc:command *(mandatory)(one to many per Logic File)*

What command to run against the target.

You can have the following values replaced as it is used against each target:

- [lcc:targetId] Will be replaced with each 'lcc:targetId' value from each Target Set.

Syntax: lcc:command *[tab]* [...]
Example: lcc:command net time \\[lcc:targetId]
Example #2: lcc:command dir \\[lcc:targetId]\c$\windows\system32\notepad.exe

lcc:commandResultsExclude *(optional)(one to many per Logic File)*

If provided, will filter what information from the results will be displayed/written. Any lines that contain these value(s) will be excluded.

Syntax: lcc:commandResultsExclude *[tab]* [...]
Example: lcc:commandResultsExclude command completed successfully
Example #2 (multple): lcc:commandResultsExclude command completed successfully
lcc:commandResultsExclude volume in drive

lcc:commandResultsInclude *(optional)(one to many per Logic File)*

If provided, will filter what information from the results will be displayed/written. Any lines that contain these value(s) will be included, all others will be excluded. Unless also matching a value in the key 'lc:commandResultsExclude'.

Syntax: lcc:commandResultsInclude *[tab]* [...]
Example: lcc:commandResultsInclude Current time
Example #2 (multiple): lcc:commandResultsInclude Current time
lcc:commandResultsInclude Volume serial number.

lcc:resultsPath *(optional)(one per Logic File)*

If provided, will write the results from commands (i.e. output) to this path/file. All threads/target results will be written to the same file.

Syntax: lcc:resultsPath *[tab]* [...]
Example: lcc:resultsPath allOutput.txt
Example #2: lcc:resultsPath \\server\share$\folder\allOutput.txt

lcc:errorsPath *(optional)(one per Logic File)*

If provided, will write the errors from commands (i.e. output) to this path/file. All threads/target errors will be written to the same file.

Syntax: lcc:errorsPath *[tab]* [...]
Example: lcc:errorsPath allErrors.txt
Example #2: lcc:errorsPath \\server\share$\folder\allErrors.txt

lcc:targetId *(mandatory)(one to many per Logic File, one per Target Set)*

What target will be used to run commands against. Each target is considered a 'Target Set' and this key must be the first in each set.

Syntax: lcc:targetId *[tab]* [...]
Example: lcc:targetId server1

lcc:targetSkip *(optional)(one per Target Set)*

You can supply this key if you want a Target Set to be skipped. This is handy if you want to leave a set in the Logic File for reference, but, not have the program process it.

Valid Values

YES

Syntax: lcc:targetSkip *[tab]* [YES]
Example: lcc:targetSkip YES

Logic File – Examples

This example will query a group of servers for their current time, and display directory information for a specific file (notepad.exe). It will provide a heartbeat every 2 seconds.

```
lcc:logPath     lccAsyncCommands-log
        lcc:logLevel   1        Checking Logic
        lcc:logLevel   2        Process Logic
        lcc:logLevel   3        Process Command(s)
        lcc:logLevel   4        Show Results In Window

lcc:heartbeat  2

lcc:command net time \\[lcc:targetId]
lcc:command dir \\[lcc:targetId]\c$\windows\system32\notepad.exe

lcc:commandResultsExclude       command completed successfully
lcc:commandResultsExclude       volume in drive
lcc:commandResultsExclude       volume serial number
lcc:commandResultsExclude       directory of
lcc:commandResultsExclude       file(s)
lcc:commandResultsExclude       dir(s)

        lcc:commandResultsInclude Current time

lcc:resultsPath         allOutput.txt
lcc:errorsPath allErrors.txt

lcc:targetId    server1
        lcc:targetSkip YES
```

lcc:targetId server2
lcc:targetSkip YES
lcc:targetId server3
lcc:targetSkip YES

Definitions

Modifications

NAME	DATE	MODIFICATION
David Mielcarek	10/6/2016	Created

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