SWIFT TLC (Tape Library Connector) Quick Start Guide

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# SWIFT-TLC simulator

The SWIFT-TLC simulator provides a simulation environment that you can use this tool for verify how SWIFT-TLC works without connecting to a physical tape library.

The SWIFT TLC simulator package is under folder “SWIFT-TLC/packages/Tools/” of the github project repository, which named as “simulator\_switcher.x.x.x.tar.gz”

# Setup preparation

* Before install the SWIFT TLC simulator, you will need to have TLC installed. (Please note after SWIFT TLC installed, do not start the service.)
* There is a simulator.xml configure file under folder “conf” in the simulator\_switcher package, can define the tapes, slots and the tape move/format/mount delay.
* We don’t suggest to manually add the virtual tape manually, there is another tool for generate simulator.xml with specify configure.
* If you want to use a new simulator.xml rather than the default one. You can do the following: Download the tool “**genSimXMLCfg.tar.gz**”, un-package the package then change directory to genSimXMLCfg, edit the “simulator.ini” file, changer the configure as you want, the ini file format like below:

[DE64000F22] # Changer serial number

lto6\_drive=4 # Specify the number of LTO6 drive

total\_slot\_num=20 # Specify the total slot number

mail\_slot\_num=1 # Specify the number of mail slot

lto6\_tape=8 # Specify the number of LTO6 tape

After setup the configure file, run “**python genSimulator.py**”, then you will have a simulator.xml generated base on the simulator.ini. Copy and replace this file of original one in the “simulator\_switcher/conf/”.

* If you want to manually modify the xml file, please note that at current version the changer’s **<serial number>** and the **<scsi\_addr>** must be the same in the simulator.xml file.

# Install the TLC simulator by executing below steps

* Un-package the simulator\_switcher.x.x.x.tar.gz
* Change to folder “simulator\_switcher”
* Execute the shell script, “./switch2Sim.sh”

You will see below content

* System will install the simulator binaries and then start the vs service automatically.

*[root@localhost simulator\_switcher]# ./switch2Sim.sh*

*[INFO] Stopping 'VS' service:*

*[INFO] Disabling watchdog.*

*[INFO] Cleaning Suds Cache*

*[WARNING] Stopping 'vs' service failed with unknown return code 1*

*[INFO] Cleaning pipe Cache.*

*[INFO] No 'pipe' cache is found*

*[SUCCESS] 'VS' Service has been stopped!*

*Copying simulator config file*

*Copying simulator vfs binraries*

*Copying simulator vfsclient binraries*

*[INFO] Starting 'VS' service*

*[INFO] Starting 'vfsserver-simulator'...*

*[SUCCESS] 'vfsserver-simulator' is started.*

*[INFO] Enabling watchdog.*

*[SUCCESS] 'VS' Service has been started!*

*Your system has been switched to use simulator.*

* After switch to simulator environment, TLC will do “inventory” for all the virtual tape which defined in the simulator.xml under /etc/vs/simulator.xml
* Wait 10 mins after TLC-simulator service started and verify that TLC is running well by executing the commands “df - h | grep vs”. It should list the TLC VFS volume (/srv/node/vsnode) with a capacity of several TB. The shown VFS capacity is the capacity of the sum of all currently virtual formatted tapes.

[root@tlc01 TLC]# df -h | grep vs

/dev/md126 60G 33M 60G 1% /opt/VS/vsCache/meta

/dev/md127 1.4T 34M 1.4T 1% /opt/VS/vsCache/diskCache

vfsclient 7.9T 0 7.9T 0% /srv/node/vsnode