

SUSE YES System Certification Kit 8.8

Command Line Utilities



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SUSE LLC.

1221 South Valley Grove Way

Valley Grove II | Suite 500

Pleasant Grove, Utah 84862 U.S.A.

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About This Guide

The Command line utilities included in the YES System Certification Suite add flexibility and allow you to customize your testing. For example, you can customize the time stress tests are run - from minutes to days, and you may run tests unattended, etc. This additional functionality can be useful in the following scenarios:

- Running YES Certification tests along with other Partner internal testing
- Troubleshooting failing certification tests
- Testing in headless environments
- Testing multiple SUTs at a time
- Launching tests from a remote location
- Other validation testing

At this time, is not possible to create or upload a submission via command line tools directly. A combination of the Java Test Console GUI and the command line tool is needed to create a submission for a bulletin.

Audience

This manual is intended for users who have experience with computers, networking, Linux, and Microsoft Windows.

Feedback

We want to hear your comments and suggestions about this manual and the other documentation included with this product. Please use the User Comments feature at the bottom of each page of the online documentation.

Documentation Updates

At this time, is not possible to create or upload a submission via command line tools directly. A combination of the Java Test Console GUI and the command line tool is needed to create a submission for a bulletin.

`third_party_virt_auto_cli.py` - runs third party virtualization tests automatically.

`server_auto_cli.py` - runs certification server and stress tests automatically.

Note: At this time interactive tests are excluded.

`server_menu_cli.py` - allows to run certification tests by choosing from a menu in the command line.



Additional Information

For more Information on YES Certification, see:

SUSE YES Certified Program <https://www.suse.com/partners/ihv/yes/>

Partner Resources <https://www.suse.com/partners/become-partner/>

Documentation Conventions

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1 Command Line Tools for Validation Testing

You may install the test kit rpm packages on Test Console (TC) and System Under Test (SUT) directly, using the zypper package manager.

Note: This type of installation does not set up an installation server and PXE/DHCP on the TC.

To install and run command line utilities and GUI without full SCK installation, perform the following:

1. Install the following packages on TC machine:

From SLE Basesystem repository:

- python3-curses
- java_1.8.0_ibm*

From test kit media:

- .../suse/noarch/sck-common
- .../suse/x86_64/sck-tc, tconsole*, and sshpass

2. Install the following packages on the SUT:

From SLE repositories:

- • mokutil
- ndctl (sle-module-server-applications)
- python
- sshpass from kit iso
- bc
- nmap
- dvd+rw-tools
- gcc
- autoconf
- bonnie (development tools module in 15)

From test kit media:

- .../suse/noarch/sck-common
- .../suse/x86_64/sck-sut

3. Set up ssh keys authentication between Test Console machine and SUT (both ways). You may run `/opt/suse/testKits/system/bin/ssh_keys_setup.sh` on both TC and SUT to help you set up ssh keys.
4. You may now run scripts from `/opt/suse/testKits/system/bin/` on TC. Use the config files as shown above.
For more information on command line options do: `./<script_name> -h`
`./ server_cli_menu.py [-t <time to run stress tests>]`



Where:

-t = (optional) time to run stress tests in days, hours, minutes or seconds (e.g 1d, 3h, 5m or 42s)

Or

`./server_cli_unattended.py [-s -t <time to run stress tests>]`

Available options

-s <Run Stress Tests Only (default: all tests are run). Can be combined with -t>

-t <time to run stress tests (default: 4 hours) e.g.: 1d, 3h, 5m or 42s>

-e <Run Server Tests only (default: all tests are run)>

-n <Do not gather logs (default: gather logs and run supportconfig)>

This information is also available in the help section of each script
(`./server_cli_unattended.py -h`)

Note: The TC is needed for JAVA GUI



2 3rd-Party Hypervisor

To run the Third-party Hypervisor Virtualization Test Suite using command line utilities and create a submission for a bulletin, do the following:

1. Install Java Test Console from the provided system kit iso (suse-systest-x.x.iso)
2. Launch Test Console GUI application and create a new project (Third-party Hypervisor Virtualization, Server-Full or Server-Reduced):
 - a. Enter the name of your project and save it (e.g., myproject)
 - b. Enter VMM IP
 - c. Run all tests under "VMM SCK Install" and run "VMM Component Check Test"
3. Click on "Edit Product/Report" button on the main toolbar and fill out fields under each tab (Company, System, Virtual Machines, Port/Bus, Video, LAN, HBA, Devices)
4. Set up ssh keys authentication between Test Console machine and VMM (both ways). You may run `/opt/suse/testKits/system/bin/ssh_keys_setup.sh` on both TC and SUT to help you set up ssh keys.
Also, set `DISABLE_POPUPS=7` in `/opt/suse/testKits/system/configs/sck.conf` on VMM machine. (TC should get automatically set by cli script)
5. Edit `/opt/suse/testKits/system/configs/sample_config.json` and enter the same VMM, Project Name (myproject), and TC IP that you entered in the Java TC. Rename the file as appropriate (e.g VMM.json)
6. Continue testing by running command line tool on TC machine against VMM: `cd /opt/suse/testKits/system/bin/`
7. `#!/third_party_virt_auto_cli.py -n -c VMM.json -t 4h`
 - a. Use "-t 4h" to run stress tests for 4 hours. • Use the "-n" to avoid gathering logs
 - b. Use "-c" to indicate config file
8. Once the VMM Stress tests complete (command line tool will show results of each test), go back to Java Test Console GUI:
 - a. Run "Get VMM Test Logs" under "Get VMM Config Test Logs."
After gathering VMM logs, you may shutdown VMM and turn on VMs for MVM testing.
 - b. Under "MVM Configuration Tests" enter TC, and VMs IP Addresses.
 - c. Run all VM installations under "Install Kit On VMs"
 - d. Run all SCK Version Checks under "MVM SCK Install Checks"
 - e. Run all component check tests under "MVM Component Check Tests"
9. Set up ssh keys authentication between Test Console machine and each of the VMs (both ways). You may run `/opt/suse/testKits/system/bin/ssh_keys_setup.sh` on both TC and SUT to help you set up ssh keys.
Also, set `DISABLE_POPUPS=7` in `/opt/suse/testKits/system/configs/sck.conf` on each VM/SUT
10. Back on a terminal continue running test by running the command line tool against each of the VMs simultaneously (using a separate terminal for each VM).
`cd /opt/suse/testKits/system/bin/`




```
#./third_party_virt_auto_cli.py -n -c VM1.json  
#./third_party_virt_auto_cli.py -c VM2.json  
#./third_party_virt_auto_cli.py -c VM3.json
```

- Use “-n” to avoid gathering logs for VM1
 - You only need to use “-c” and point to config file for VM2-VM3
 - VMx.json files should have been previously created
11. Once the 12hr stress tests are completed, go back to Java Test Console GUI and run “Get VM1 Test Logs” under “Get MVM Test Logs” (bottom of the project)
 12. Create a zip file on TC machine:

```
cd /opt/suse/testKits/system/status  
#zip mysubmission.zip <myproject>...tar.gz <myproject>.log  
    <myproject>.tsf <myproject>.xml
```
 13. Upload the submission to SUSE Bulletin System. May need to enter comments in all the exceptions.



3 System Test Kit Revision History

Date	Description
June 2023	Updated in preparation for SCK 8.8
July 2022	Updated page layout to 8.5x11 Letter
April 2022	Updated in preparation for SLE 15 SP4 and SCK 8.7 Placed into new template
April 2021	Initial release of document

