

Script to perform CLI `commit` against a list of saved config

Task requirement

While performing POC tests, we usually need to switch PA config with fixed traffic pattern. This script issues multiple `commit` with constant delay.

Here we have the list of saved config in the file config.txt. Those saved config should exist on PA or commit will just do nothing.

config-???? on PA is the original config saved by the script. You may go back to the initial stage by loading it.

```
$ cat config.txt
POC9627_5250_68_v11
POC9627_5250_68_v12
POC9627_5250_68_v13
POC9627_5250_68_v14
POC9627_5250_68_v15
POC9627_5250_68_v16
POC9627_5250_68_v17
POC9627_5250_68_v18
POC9627_5250_68_v19
$

admin@PA5250-APAC-68> show config saved [TAB]
POC9627_5250_68_v11      2019/11/30 16:23:02  39450.2K
POC9627_5250_68_v12      2019/11/30 16:30:02  42741.9K
POC9627_5250_68_v13      2019/11/30 16:37:50  46033.6K
POC9627_5250_68_v14      2019/11/30 16:41:56  49325.3K
POC9627_5250_68_v15      2019/11/30 16:56:01  52617.0K
POC9627_5250_68_v16      2019/11/30 17:00:00  55908.8K
POC9627_5250_68_v17      2019/11/30 17:05:20  59200.4K
POC9627_5250_68_v18      2019/11/30 17:10:18  62492.1K
POC9627_5250_68_v19      2019/11/30 17:16:27  65780.9K
autosave-8.1-20191113.xml 2019/11/13 13:19:24   13.9K
candidate-config          candidate-config
config-6688               2019/12/09 14:20:28   3172.1K
config-6794               2019/12/09 14:48:11   3172.1K
```

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```
running-config.xml      2019/12/09 15:43:54   3172.1K
<value>                 Saved configuration

admin@PA5250-APAC-68> show config saved
```

It also captures the job list at the end, and log the whole session in a file commit-*.log.

The script

The script content is as follows. You may want to customize it before use, including change of the following variables.

uname - the login name "admin"

pass - the login password "password"

host - skipped, the host taken from the command line input

prompt - skipped, CLI command prompt

config_prompt - skipped, CLI command prompt (configuration mode)

config_file - name of the config list file

time_delay - initial delay in seconds, before any command set to be issued

time_interval - additional delay in seconds after each commit. Set it large enough for designed tests with the running config.

timeout_commit - in seconds, timeout of a commit command. Normally the script will move on immediately after the prompt returns. Increase this one if commit takes longer than expected.

```
$ cat pancommit.exp
#!/usr/bin/expect -f

#set uname [index $argv 0]
#set pass [index $argv 1]
#set host [index $argv 2]

set uname "admin"
set pass "admin"
```

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```
set host [lindex $argv 0]
set prompt "> $"
set config_prompt "# $"

set config_list "config.txt"

set time_delay 0
set time_interval 5
set timeout_commit 300

#
#
#

log_user 1

set mypid [pid]
log_file -noappend "commit-$mypid.log"

spawn /usr/bin/ssh -l $uname $host

expect {
    "Password: " {
        sleep 1
        send "$pass\r"
    } timeout {send_user "error"}
}

set timeout 1

expect -re $prompt
send "set cli pager off\r"
expect -re $prompt
send "show system info\r"
```

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```
expect -re $prompt
send "configure\r"

expect -re $config_prompt
send "save config to config-$mypid\r"

sleep $time_delay

set timeout $timeout_commit

set f [open "$config_list"]
set config_files [split [read $f] "\n"]
close $f

foreach config $config_files {
    expect -re $config_prompt
    send "run show clock\r"
    expect -re $config_prompt
    send "load config from $config\r"
    expect -re $config_prompt
    send "commit\r"
    expect -re $config_prompt
    send "run show clock\r"

    sleep $time_interval
}

expect -re $config_prompt
send "exit\r"

expect -re $prompt
send "show jobs all\r"
expect -re $prompt
send "exit\r"
```

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```
#  
#  
#  
  
puts "Initial config saved as config-$mypid"  
puts "CLI session captured and saved in commit-$mypid.log"  
  
exit  
  
# End  
$
```

Script environment

This is an Expect script, which runs on Linux. All you need is a CentOS box with Expect installed.

Use this command to install Expect.

```
$ yum install expect
```

Run the script with this syntax.

```
$ ./pancommit.exp 10.10.1.123
```

where 10.10.1.123 is the PA management IP.

Reference

- [Script to execute CLI commands at short regular intervals](#)
- [Script to perform CLI `commit` against a list of saved config](#)
- [Script to generate PA XML config for objects, policy rules and routes](#)
- [Scripts to collect browser content or Panachrome repeatedly over time](#)
- [Terence's list of my tech docs](#)

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