Help.SSHCommand

NAME

SSH Command plugin is for running commands and getting the result by SSH client.

SYNOPSIS

SSH Command plugin need next parameters or options.

Parameters

SSH Host

- Host name or ip address to connect SSH
- E.g. mydb.company.com or 1.2.3.4

SSH User

- User id to connect SSH
- E.g. user1

Prompt RegExp

- Every CLI (Command Line Interface) command has prompt.
- When SSH connect to host, device, etc it shows prompt.
- This plugin is waiting until such prompt is come up.
- When the expectation condition of prompt is meet the next command is presented.
- After the command is executed this plugin is waiting until such prompt is come up.
- The CLI result between command and prompt can be saved as the result of plugin by Display index
- Usually this prompt can be changed in running, so can be descriped using Regular Expression.
- E.g. Usually the prompt of linux host is like root@testweb [~]#
 - o root is user
 - o testweb is hostname
 - [~] is the current working directory. If you change to /tmp directory, the prompt is
 root@testweb [/tmp]#
 - In this case the prompt can be root@testweb.*# \$.
 - root@testweb is the starting point of regular expression.
 - .* means any character before # \$. \$ means ends with #[blank]

Command

- One or more command after SSH connection.
- These command is dependent to connected system.
- In case connected to linux server, linux commands, shell scripts or linux executable files can be used.
- In case connected to Cisco Cytalist Switch, IOS command can be used.
- E.g. df -h, free, 1s -al for linux command.

Options

Port

- SSH port to use.
- Default is 22.
- In some cases behind firewall this port usually can be changed into bigger than 10000.
- E.g. [12022]

Password

- · User password for SSH connection.
- Some cases need more secure connection, use with SSH keyfile instead of this password.
- This password is shown **** for security.

SSH keyfile

- SSH connection need for password or key file for user credential.
- This key file can be a /home/toor/.ssh/id rsa.pub.
- Key file can be selected by file choice dialog window in STU.
- E.g. /home/toor/.ssh/id rsa.pub Or C:\Users\Administrator\mykey.pk

Connect timeout

- SSH connection can take some seconds to connect.
- This is Connection waiting timeout for SSH.
- Default is 10 seconds.
- E.g. 3 or 20

Prompt Expect timeout

- After command is presented to run this plugin is waiting for the next prompt is matched.
- This Prompt expectation timeout is the waiting seconds for the timeout of duration which is the running time for the command.
- After running a command this Prompt expectation timeout is exceeded but not the prompot is come up, then a timeout error happen.

• Default Prompt expectation timeout is 60 seconds.

Echo type

- When command is running ususally the command itself is not shown the the output.
- This flag is set then the command is echoed so user can catch the command also.

Display index

- As explained above command can be a one or more.
- This Display index is the index of which command's result can be captured.
- If set 1 3 then first and third command's result can be captured.
- E.g. 1 2 3, 3 2 5

EXAMPLES

In case linux command

Parameters

SSH HOST

192.168.99.250

SSH USER

root

Prompt RegExp

```
root@testweb.*# $
```

Command

- 1s -la: show current directory with all file including hidden one (-a) and long format (-l).
- df -h : disk free with human readble option (-h).

Options

Password

r

Display Index

1, 2

Results

```
total 76
drwxr-x--- 9 root root 4096 May 7 22:46 .
drwxr-xr-x 15 root root 4096 Apr 30 12:58 ..
-rw----- 1 root root 11473 May 8 10:22 .bash_history
```

```
-rw-r--r-- 1 root root 178 Oct 31 2018 .bash logout
-rw-r---- 1 root root 138 Nov 22 20:18 .bash profile
drwxr-x--- 3 root root 4096 Apr 16 19:02 .cache
drwxr-x--- 2 root root 4096 Dec 14 19:11 compose
drwx----- 3 root root 4096 Nov 22 20:28 .config
drwxr-x--- 2 root root 4096 Jan 7 18:47 diagpy
drwxr-x--- 2 root root 4096 Dec 14 18:54 naswork
drwx----- 2 root root 4096 Apr 3 18:18 .ssh
-rw-r---- 1 root root 207 Nov 22 20:16 .tmux.conf
drwxr-xr-x 3 root root 4096 Nov 22 19:55 .vim
-rw----- 1 root root 12210 May 7 13:41 .viminfo
-rw-r---- 1 root root 165 Apr 3 17:40 .wget-hsts
Filesystem Size Used Avail Use% Mounted on
/dev/root
              16G 564M 15G 4% /
            998M 0 998M 0% /dev
1000M 0 1000M 0% /dev/shm
devtmpfs
tmpfs
             1000M 548K 999M 1% /run
tmpfs
tmpfs
            tmpfs
             1000M
                     0 1000M 0% /tmp
              200M 0 200M 0% /run/user/0
tmpfs
```

In case cisco switch command

Parameters

SSH HOST

192.168.168.1

SSH USER

admin

Prompt

(Switch[>#]|Password:)\$

Command

- enable: Administrator escalation. Most command need admin escalation in IOS cisco.
- r : Password for administrator escalation.
- show interfaces GigabitEthernet 0/1 | include packets.*bytes : Show interface information for the first port of switch.
- exit: Exit the ssh connection.

Options

Password

r

Display Index

Result

308519467 packets input, 93589873779 bytes, 0 no buffer

175748894 packets output, 115163897977 bytes, 0 underruns

PLATFORM

Here is the supported platform for this plugin.

- This plugin support Windows 7, 10 and above.
- This plugin support Linux (Ubuntu).
- This plugin support Mac.

VERSION

1.415.1930

Changlog

- ...
- ...

LIMITATION

- Current the supported protocol is SSH
- Not supported telnet

SEE ALSO

{{xxx}}}

- Regular Expression
- This plugin use Paramiko Expect

LICENSE

• Paramiko Expect is MIT LICENSE