to

to

A handy tool automating server-login

lgfang

plexus platform

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Features

- fast host filtering
- auto telnet, ssh, ftp and TL1
- "auto-run" commands after login
- programable hostkeys
- everything is on server on plain text
- extensible (a little bit)

usage

```
Usage: to [-a] [-q|-f|-t|-s] 'host_nick_name'
```

```
# a record with addr only
  gdcsr60.gdc.lucent.com
  # a record with ip, host name, login
  192.168.7.248 qdbuild2 lungangfang
  # a record with ip, host name, login and passwd
  192.168.7.68 qdi02-c04 root xxxxxx
  # a record which will run a command after login
  oak.inse.lucent.com oak xxxxxx xxxxxx send \r; send "cd
      /telica/toaster\r"
  # login to a sever via an intermediate host
   192.168.7.134 wf03-c01 root xxxxxx send \r; send "ssh
10
      152.148.184.200\r"
  # OK, here comes a really complicated one
11
  192.168.7.134 wf03-c01 root xxxxxx send \r; send "ssh
12
      152.148.184.200\r"; expect "passphrase*:"; send
      \r; expect "assword:"; send xxx\r
```

to

Query

```
lungangfang@qdbuild2 ~
$ to -q qd
1,     135.252.41.248 qdbuild2
2,     135.252.135.68 qdi02-c04
lungangfang@qdbuild2 ~
$ to -q c0
1,     135.252.135.68 qdi02-c04
2,     152.148.163.134 wf03-c01
lungangfang@qdbuild2 ~
$ \[
\begin{array}{c}
```

Auto telnet

```
lungangfang@gdbuild2 ~
to -a ju
, 135.251.84.49 Juliet-a
      135.251.84.50 Juliet-b
Make a choice (1):
spawn telnet 135.251.84.49
Trying 135.251.84.49...
Connected to 135.251.84.49.
Escape character is '^]'.
MontaVista(R) Linux(R)
Juliet-a login: root
Password:
There have been 0 failed login attempts since the last successful login
Last login: Wed Mar 7 00:18:46 2012 on pts/1
Welcome to MontaVista(R) Linux(R) Carrier Grade Edition 5.0 (0800724).
Total number of active sessions (including current session) is 2
root@Juliet-a:~#
```

Auto ssh

```
lungangfang@gdbuild2 ~
 to -a -s jul
 . 135.251.84.49 Juliet-a
       135.251.84.50 Juliet-b
Make a choice (1): 2
spawn ssh root@135.251.84.50
The authenticity of host '135.251.84.50 (135.251.84.50)' can't be established.
RSA key fingerprint is 59:2f:b0:0d:e5:cb:62:01:4f:29:80:50:d5:d4:11:c5.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '135.251.84.50' (RSA) to the list of known hosts.
root@135.251.84.50's password:
There have been 0 failed login attempts since the last successful login
_ast login: Wed Mar 7 00:19:57 2012 on pts/0
Welcome to MontaVista(R) Linux(R) Carrier Grade Edition 5.0 (0800724).
Fotal number of active sessions (including current session) is 1
root@Juliet-b:~#
```

Auto ftp

Auto "jump" to another server

```
to -a wf03
    152.148.163.134 wf03-c01
spawn telnet 152.148.163.134
Trying 152.148.163.134...
Connected to 152.148.163.134.
Escape character is '^]'.
Red Hat Enterprise Linux Server release 5 (Tikanga)
Kernel 2.6.18-8.el5 on an x86 64
login: root
Password:
ast login: Tue Mar 6 01:16:33 from gdbuild2.cn.alcatel-lucent.com
[root@calzone ~]#
[root@calzone ~]# ssh 152.148.184.200
Unauthorized use of this system is prohibited and may be prosecuted
to the fullest extent of the law. By using this system, you implicitly
agree to monitoring by system management and law enforcement authorities.
If you do not agree with these terms, DISCONNECT NOW.
Enter passphrase for key '/root/.ssh/id_dsa':
```

Auto "cd" after login

```
lungangfang@gdbuild2 ~
to -a oak
   oak.inse.lucent.com oak
spawn telnet oak.inse.lucent.com
Trying 152.148.100.82...
Connected to oak.inse.lucent.com.
Escape character is '^]'.
Red Hat Enterprise Linux AS release 3 (Taroon Update 5)
Gernel 2.4.21-32.ELsmp on an i686
login: lungangfang
Password:
ast login: Wed Mar 7 04:59:31 from qdbuild2.cn.alcatel-lucent.com
unknown terminal "xterm-256color"
unknown terminal "xterm-256color"
 cd /telica/toaster/home/release/
lungangfang@oak /telica/toaster/home/release
```

Define your hotkeys

Modify the "interact" clause at end of the file to define your own hotkeys

```
interact {
     # define your own "hot-keys" here
2
     # "${esc}OP" -> F1 key
3
     "${esc}OPt11" {send "telnet 0 $tl1Port\r"; auto_tl1}
4
     "${esc}OPcu" {send "CANC-USER;"}
5
     "${esc}OPrs" {send "RTRV-ATCA-EQPTSTATE;"}
6
     "${esc}OPr1" {send "RTRV-ATCA-EQPT::SHELF-0-ACM-1;"}
     "${esc}OPr2" {send "RTRV-ATCA-EQPT::SHELF-O-ACM-2;"}
     "${esc}OPr3" {send "RTRV-ATCA-EQPT::SHELF-0-ACM-3;"}
     "${esc}OPr4" {send "RTRV-ATCA-EQPT::SHELF-0-ACM-4;"}
10
     "$fesclOPr4" fsend "RTRV-ATCA-EQPT::SHELF-0-ACM-4:"}
11
     # TODO: privide capability to search input history
13
14
```

Install

- Copy "to" to your \$PATH
- Adjust following line in "to" according to your site configure.

```
source /home/.../cmdline.tcl
```

■ Create (or copy) \$HOME/.hosts