

Kleine Linux-Tricks - schneller ohne Aufwand

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Übersicht

- 1 shell
 - redirection
 - alias
- 2 perl
- 3 ssh
- 4 tools

hotkeys

- ALT-T exchange two arguments under the cursor (bash only)
- CTRL-T exchange two characters under the cursor (bash only)
- CTRL-L redraw screen / clean screen
- CTRL-R search backwards in the history
- CTRL-D send an EOF - exit the shell

redirection

Redirection doesn't need to be at the end of a command:

```
$ echo a b >c
```

```
$ echo >c a b
```

```
$ >c echo a b
```

```
$ cat <a
```

```
$ <a cat
```

```
$ <a sort >b
```

redirection - applied

Place the filename at the beginning of the line to allow easier editing of command arguments:

```
$ </var/log/messages grep scsi  
$ </var/log/messages grep disk  
$ </var/log/messages grep sdb
```

Creating and reading files is shell-specific:

```
bash$ >filename      # creates an empty file  
zsh$ >filename       # same as cat >filename  
zsh$ :>filename      # creates an empty file  
zsh$ <filename       # show a file in the pager
```

sponge - write input to file

(sponge is included in the moreutils debian package)

```
$ cat testfile
Lorem ipsum dolor sit amet, consetetur ...
$ sort < testfile > testfile
$ cat testfile
$
$ echo lorem ipsum > testfile
$ sort < testfile | sponge testfile
$ cat testfile
lorem ipsum
$
```

pathname expansion shortcuts

(zsh only)

```
$ cd ~log
cd: no such file or directory: ~log
$ hash -d log=/var/log
$ cd ~log
$ pwd
/var/log
$
```

alias

```
$ cat ~/.alias
alias  ls='ls --color=auto'
alias  dir='ls -bCAF1'
alias  grep='grep --color=auto'
alias  insecssh='ssh -o "StrictHostKeyChecking=no" \
    -o "UserKnownHostsFile=/dev/null"'
unalias rm

alias  unik='perl -ne "print unless \${seen{\$_}}++"'

ltree  () { tree -C "$@" | less -r ; }
```


unik - uniq for unsorted input

```
perl -ne "print unless $seen{$_}++"
```

```
$ cat call.log  
+49241708822  
+492418869292  
+492418869292  
+4924181000  
+492418869292  
$ unik call.log  
+49241708822  
+492418869292  
+4924181000  
$
```

perl on the command line

```
$ perl -e 'print sort {length($a)<=>length($b)
           or $a cmp $b} <>' <~/histfile
[...]
$ echo 00:15:58:0a:40:00 | perl -F: -ane \
  'print join(".", map { hex($_) } @F),"\n";'
0.21.88.10.64.0
$
```

"virtual" hosts

```
$ ssh -i ~/.ssh/key/belfor.tis.key -p 2222 -l test \  
212.185.64.120
```

```
$ ssh belfor.tis
```

```
host belfor.tis
```

```
user test
```

```
hostname 212.185.64.120
```

```
port 2222
```

```
identityfile ~/.ssh/key/belfor.tis.key
```

```
ServerAliveInterval 180
```

firewalled hosts

```
$ ssh 62.157.120.11  
ssh: connect to 62.157.120.11: Connection refused  
$ ssh belfor.wfb
```

```
host belfor.wfb  
user root  
proxycommand ssh mar@cvs.aixonix.de \  
nc 62.157.120.11 22
```

firewalled hosts

```
host1$ ssh hostB  
hello world  
host1$
```

```
hostB$ cat ~/.ssh/authorized_keys  
no-port-forwarding,no-X11-forwarding,no-agent-forwarding,\  
    no-pty,command="echo hello world" ssh-rsa AAAAB...  
hostB$
```

misc usefull tools

`dstat` resource statistics

`file` show file type of a file

`hexdump` show a hex dump of a file

`lftp` command line file transfer tool for ftp,http,sftp,...

`pstree` show a tree structure of running processes

`screen` terminal multiplexer

`script` record a session

`vimdiff` edit two or three files side by side