

### Bash

uname -a Show system and kernel

### Network

ifconfig -a Displays all network ports and ip addresses

ethtool *eth0* Displays *eth0*'s ethernet status

whois *domain* Get whois info for domain

dig *domain* Get DNS info for domain

dig -x *host* Reverse lookup host

host *google.com* Lookup DNS IP

hostname -i Lookup local IP address

netstat -tupl List active connections to/from system

### Bash Shortcuts

C-z Sleep program

C-a Go to start of line

C-e Go to end of line

C-u Erases whole line

C-w Erases one word in current line

C-k Cut to end of line

C-r Search history

!! Repeat last command

!abc Run last command starting with *abc*

!\$ Last arguments of previous command

!\* All arguments of previous command

### Programs/Utilities

nccdu Ncurses disk usage utility

glances System monitor

nethogs Bandwidth monitor

### ls Options

-a Show all (including hidden)

-R Recursive list

-r Reverse order

-t Sort by last modified

-S Sort by file size

-l Long listing format

-m Comma-separated output

### Search

grep -i Case insensitive search

grep -r Recursive search

grep -v Inverted search

grep -o Show matched part of file only

find */dir/* -name *abc\** Find files starting with *abc* in *dir*

find */dir/* -user *name* Find files owned by *name* in *dir*

find */dir/* --mmin *num* Find files modifies less than *num* minutes ago in *dir*

find */dir/* -size +100k Find files larger than 100k

locate *file* Find *file* (quick search of system index)

whereis *app* Show possible locations of *app*

which *app* Show which *app* will be run by default

### Command Lists

cmd1 ; cmd2

| Run *cmd1* then *cmd2*

cmd1 && cmd2

| Run *cmd2* if *cmd1* is successful

cmd1 || cmd2

| Run *cmd2* if *cmd1* is not successful

### Compression

tar xf *file.tar* Untar into current directory

#### tar flags

c create archive

t Table of contents

x Extract

f Specifies filename

z Use zip/gzip

j bzip2 compression

k Do not overwrite

T Files from file

W Ask for confirmation

V Verbose

### Pipes

`cmd1 | cmd2`

| stdout of *cmd1* to *cmd2*

`cmd1 |& cmd2`

| stderr of *cmd1* to *cmd2*

### File Permissions

`chmod 777` rwx for everyone

`chmod 755` rw for owner, rx for group/world

`chown user.group file` Change file owner to *user* and group to *group*

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