## Dpkg

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| dpkg --get-selections > *file* | Write package selections to file. |
| dpkg --set-selections < *file* | Set package selections from file. |

## The Network

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| /etc/network/interfaces | Network interface configuration. |
| ifup, ifdown [*device*] | Start, stop network interfaces according to files above. |
| /sbin/ip | Show and manipulate network interfaces and routing, needs iproute. |
| ssh -X *user@host* | Login at other machine. |
| scp *files user@host:path* | Copy files to other machine (and vice versa). |



# Debian GNU/Linux Reference Card

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## Getting Help

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| man *page* or man bash | Read online help for every command and many configuration files. |
| *command* [--help, -h] | Brief help for most commands. |
| /usr/share/doc/*package-name*/ | Find all documentation here, optional file README.Debian contains specifics. |
| Web documentation | Reference, manuals, FAQs, HOWTOs, etc. at http://www.debian.org/doc/ |
| Mailing lists at http://lists.debian.org/ | The community is always helpful, search for users. |
| The Wiki at http://wiki.debian.org/ | Contains all kind of useful information. |

## Installation

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| Installer | All information about it at http://www.debian.org/devel/debian-installer/ |
| CD images | Download from http://www.debian.org/distrib/ |
| boot:expert | E.g. to set up the network w/o DHCP or using LILO instead of GRUB. |

## Bugs

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| Bug Tracking at http://bugs.debian.org/ | All about existing and fixed bugs. |
| Package specific | See http://bugs.debian.org/*package-name*/, use wnpp to ask for new packages. |
| reportbug | Report a bug by e-mail. |
| Reporting | Instructions at http://www.debian.org/Bugs/Reporting |

## Configuration

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| /etc/ | All system configuration files are under directory /etc/. |
| editor *files* | Default text editor. May be **nano**, **emacs**, **vi**, **joe**. |
| CUPS at http://hostname:631 | Browser interface to printing system. |
| dpkg-reconfigure *package-name* | Reconfigure a package, e.g. *keyboard-configuration* (keyboard), *locales* (localization). |
| update-alternatives *options* | Manage command alternatives. |
| update-grub | After changing /etc/default/grub. |

## Daemons and System

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| systemctl restart *name*.service | Restart a service, system daemon. |
| systemctl stop *name*.service | Stop a service, system daemon. |
| systemctl start *name*.service | Start a service, system daemon. |
| systemctl halt | Halts system. |
| systemctl reboot | Reboots system. |
| systemctl poweroff | Shuts down system. |
| systemctl suspend | Suspends system. |
| systemctl hibernate | Hibernates system. |
| /var/log/ | All log files are under this directory. |
| /etc/default/ | Default values for many daemons and services. |

## Important Shell Commands

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| cat *files* | Print files to screen. |
| cd *directory* | Change to directory. |
| cp *files dest* | Copy files and directories. |
| echo *string* | Echo string to screen. |
| gzip, bzip2, xz [-d] *files* | Compress, uncompress files. |
| pager *files* | Show contents of files. |
| ls [*files*] | List files. |
| mkdir *directory-names* | Create directories. |
| mv *file1 file2* | Move, rename files. |
| rm *files* | Remove files. |
| rmdir *dirs* | Remove empty directories. |
| tar [c][x][t][z][j][J] -f *file*.tar [*files*] | *C*reate, e*X*tract, list *T*able of archive file, *z* for .gz, *j* for .bz2, *J* for .xz. |
| find *directories expressions* | Find files like -name *name* or -size *+1000*, etc. |
| grep *search-string files* | Find search-string in files. |
| ln -s *file link* | Create a symbolic link to a file. |
| ps [*options*] | Show current processes. |
| kill [-*9*] *PID* | Send signal to process (e.g. terminate it). Use **ps** for PID. |
| su - [*username*] | Become another user, e.g. root. |
| sudo *command* | Execute a command as root as normal user, see /etc/sudoers. |
| *command* > *file* | Overwrite file with output of command. |
| *command* >> *file* | Append output of command to file. |
| *cmd1* | *cmd2* | Use output of command 1 as input of command 2. |
| *command* < *file* | Use file as input for command. |

## APT

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| apt update | Update packages listings from package repositories as listed in /etc/apt/sources.list. Required whenever that file or the contents of the repositories change. |
| apt search *search-string* | Search packages and descriptions for *search-string*. |
| apt list -a *package-name* | Show versions and priorities of available packages. |
| apt show *package-name* | Show package information incl. description. |
| apt show -a *package-name* | Show package dependencies (needed packages). |
| apt install *package-names* | Install packages from repositories with all dependencies. |
| apt upgrade | Install newest versions of all packages currently installed. |
| apt full-upgrade | Like **apt upgrade**, but with advanced conflict resolution. |
| apt remove *package-names* | Remove packages with all needed packages. |
| apt autoremove | Remove packages that no other packages depend on. |
| apt depends *package-name* | List all packages needed by the one given. |
| apt rdepends *package-name* | List all packages that need the one given. |
| apt-file update | Update content listings from package repositories, see **apt update**. |
| apt-file search *file-name* | Search packages for file. |
| apt-file list *package-name* | List contents of a package. |
| auto-apt | Installs packages automatically if needed, can replace **apt-file**, needs auto-apt. |
| aptitude | Console interface to APT, needs aptitude. |
| synaptic | GUI interface to APT, needs synaptic. |

## Dpkg

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| dpkg -l [*names*] | List packages. |
| dpkg -I *pkg*.deb | Show package information. |
| dpkg -c *pkg*.deb | List contents of package file. |
| dpkg -S *filename* | Show which package a file belongs to. |
| dpkg -i *pkg*.deb | Install package files. |
| debsums | Audit check sums of installed packages, needs debsums. |
| dpkg-divert [options] *file* | Override a package's version of a file. |
| dpkg --compare-versions *v1* gt *v2* | Compare version numbers, check with **echo $?**. |
| dpkg-query -W --showformat= *format* | Query installed packages, format e.g. '${Package} ${Version} ${Installed-Size}\n'. |