

## The Network

|                               |   |
|-------------------------------|---|
| /etc/network/interfaces       | Interface configuration (if not controlled via network-manager).    |
| ip link set device [up][down] | Start, stop network interfaces according to the file above.         |
| ip                            | Show and manipulate network interfaces and routing, needs iproute2. |
| ssh -X user@host              | Login at another machine.   |
| scp files user@host:path      | Copy files to other machine (and vice versa).                       |



## Debian Reference Card

Version 10 - Debian 10 'Buster' - 2019-03-07

<https://www.debian.org/>

### Getting Help

|  |   |
|--|---|
| 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.                                    |
| <a href="#">Web documentation</a>  | Reference, manuals, FAQs, HOWTOs, etc. at <a href="https://www.debian.org/doc/">https://www.debian.org/doc/</a> |
| <a href="https://lists.debian.org/">Mailing lists at https://lists.debian.org/</a> | The community is always helpful, search for users.  |
| <a href="https://wiki.debian.org/">The Wiki at https://wiki.debian.org/</a>        | Contains all kind of useful information.  |

### Installation

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

### Bugs

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

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## Configuration

|                               |  |
|-------------------------------|--|
| /etc/                         | All system configuration files are under directory /etc/.                              |
| editor files                  | Default text editor. May be <b>nano, emacs, vi, joe.</b>                               |
| 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

|                                |   |
|--------------------------------|---|
| 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

|                            |                             |
|----------------------------|-----------------------------|
| 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.               |

## Important Shell Commands

|  |  |
|--|--|
| rmdir dirs                                 | Remove empty directories.  |
| tar [c][x][t][z][j][J] -f file.tar [files] | Create (c), extract (x), list table of (t) 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 <b>ps</b> 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

|                           |  |
|---------------------------|--|
| 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 archive areas of available packages.   |
| apt show -a package-name  | Show package information incl. description.  |
| apt install package-names | Install packages from repositories with all dependencies.  |
| apt upgrade               | Install newest versions of all packages currently installed.   |

## APT

|                            |  |
|----------------------------|--|
| apt full-upgrade           | Like <b>apt upgrade</b> , but with advanced conflict resolution.           |
| apt remove package-names   | Remove 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 <b>apt update</b> . |
| apt-file search file-name  | Search packages for file.  |
| apt-file list package-name | List contents of a package.  |
| aptitude                   | Console interface to APT, needs aptitude.                                  |
| synaptic                   | GUI interface to APT, needs synaptic.                                      |

## Dpkg

|                                   |   |
|-----------------------------------|---|
| 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.  |
| dpkg -V [package-names]           | Audit check sums of installed packages.   |
| dpkg-divert [options] file        | Override a package's version of a file.   |
| dpkg --compare-versions v1 gt v2  | Compare version numbers; view results with <b>echo \$?.</b>                           |
| dpkg-query -W --showformat=format | Query installed packages, format e.g. '\${Package} \${Version} \${Installed-Size}\n'. |
| dpkg --get-selections > file      | Write package selections to file.   |
| dpkg --set-selections < file      | Set package selections from file.   |