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#### 1 Install software packages

Tool	Command	Notes
APT	apt install package	Package is obtained from the package repository
	aptno-download install package	Package is not obtained from the package mirror, but is instead taken
		from the package cache
	apt-get install package	Package is obtained from the package repository
	apt-getno-download install package	Package is not obtained from the package mirror, but is instead taken
		from the package cache
Aptitude	aptitude install package	Package is obtained from the package repository
Dpkg	dpkg -i $filename$	Filename refers to a local package file in .deb format

#### 2 Renew software packages

Tool	Command	Notes
APT	apt install package	Install an updated version of the same package if this package is already installed. Package is obtained from the package repository.
	apt safe-upgrade package	Install a newer version of the package. Package is obtained from the package repository.
	apt-get install package	Install an updated version of the same package if this package is already installed. Package is obtained from the package repository.
	apt-get upgrade package	Install a newer version of the package. Package is obtained from the package repository.
Aptitude	aptitude safe-upgrade package	Install a newer version of the package. Package is obtained from the package repository

### 3 Remove software packages, and keep the configuration files

Tool	Command	Notes	
APT	apt remove package		
	apt-get remove package		
Aptitude	aptitude remove package		
Dpkg	dpkg -r <i>package</i>		
	dpkgremove package		

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#### 4 Remove software packages as well as the configuration files

Tool	Command	Notes	
APT	apt purge package		
	apt-get purge package		
	apt-getpurge remove package		
Aptitude	aptitude purge package		
Dpkg	dpkg -P package		
	dpkgpurge package		

## 5 List installed software packages

Tool	Command	Notes
APT	apt listinstalled	List all installed packages
Apt-cache	apt-cache search package	List all available packages for the given package name; search includes package name as well as the package description
	apt-cache searchnames-only package	List all available packages for the given package name; search includes package names, only
Aptitude	aptitude search '~i'	List all installed packages
Dpkg	dpkg -l	List all installed packages
	dpkglist	List all installed packages

## 6 Display information about a single software package

Tool	Command	Notes
APT	apt list package	Display package information, and installation status
	apt show package	Display detailed package information, and installation status
Aptitude	aptitude show package	Display detailed package information, and installation status
Dpkg	dpkg -1 package	Display installation status
	dpkglist package	Display installation status
	dpkg -s <i>package</i>	Display package information
	dpkgstatus package	Display package information

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### 7 Display package dependencies

Tool	Command	Notes
Apt-cache	apt-cache depends package	Display reverse dependencies
	apt-cache rdepends package	Display dependencies
Aptitude	aptitude search '~R' package	Display dependencies
	aptitude search '~D' package	Display reverse dependencies
Apt-rdepends	apt-rdepends -r package	Display dependencies
	apt-rdepends package	Display reverse dependencies
Dpkg	dpkg -f filename Depends	Filename refers to a local .deb file; Display dependencies
	dpkg-deb -f filename Depends	Filename refers to a local .deb file; Display dependencies
Grep-status	grep-status -F Package -s Depends package	Display dependencies
	grep-status -P -s Depends package	Display dependencies

#### 8 List files of a package prior to installation

Tool	Command	Notes	
Dpkg	dpkg -c package		
	dpkgcontents package		
Dpkg-deb	dpkg-deb -c package		
	dpkg-debcontents package		

## 9 List files of an installed package

Tool	Command	lotes
Apt-file	apt-file -list package	
	apt-file -show package	
Dpkg	dpkg -L package	
	dpkglistfiles package	
Dpkg-query	dpkg-query -L package	
	dpkg-querylistfiles package	







#### 10 List configuration files of a package

Tool	Command	Notes	
Dpkg	dpkg -s package		
	dpkgstatus package		
Dpkg-query	dpkg-query -s package		
	dpkg-querystatus package		

#### 11 Identify the package from which a file originates

Tool	Command	Notes
Apt-file	apt-file find filename	Search in all available packages
	apt-file search filename	Search in all available packages
Dpkg	dpkg -S filename	Search in all installed packages
	dpkgsearch filename	Search in all installed packages
Dpkg-query	dpkg-query -S filename	Search in all installed packages
	dpkg-querysearch filename	Search in all installed packages

# 12 Display package status

Tool	Command	Notes
Apt-cache	apt-cache show package	Search in all available packages
Aptitude	aptitude show package	Search in all available packages
Dpkg	dpkg -s package	Package has to be installed locally
	dpkgstatus package	Package has to be installed locally
	dpkg - I filename	Filename refers to a local .deb file
	dpkginfo filename	Filename refers to a local .deb file
Dpkg-query	dpkg-query -s package	Package has to be installed locally
	dpkg-querystatus package	Package has to be installed locally

#### 13 Display available packages

Tool	Command	Notes
APT	apt list	List all known, and available packages with its status
Apt-cache	apt-cache pkgnames	List all known, and available packages

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#### 14 Display renewable packages

Tool	Command	Notes
Apt	apt listupgradable	List available packages with a new version
	apt listupgradable package	List new versions for this package
	apt-get upgrade -u	List available packages with a new version
	apt-get upgradeshow-upgraded	List available packages with a new version
	apt-get upgrade -u -s	Simulate upgrading available packages with a new version
	apt-get upgradeshow-upgradedsimulate	Simulate upgrading available packages with a new version
Aptitude	aptitude search '~U'	List available packages with a new version
	aptitude search ?upgradable	List available packages with a new version

#### 15 Validate package signature

Tool	Command	Notes
Debsums	debsums package	Validate all files from the package (except configuration files)
Debsums	debsums	Validate all files for all packages (except configuration files)
Dpkg	dpkg -V <i>package</i>	Validate all files from the package
	dpkgverify package	Validate all files from the package
Dpkg-sig	dpkg-sigverify package	Validate the GPG signature of the package
Gpg	gpgverify package	Validate the GPG signature of the package

#### 16 Check package for changes

Tool	Command	Notes
Dpkg	dpkgverify package	Check this package, only
	dpkgverify	Check all packages

#### **Recommended books**

Axel Beckert, Frank Hofmann: Das Debian-Paketmanagement-Buch

https://github.com/dpmb