APT Package Manager Cheatsheet

Updating and Upgrading Packages

Refresh package index from repositories

sudo apt update

Upgrade installed packages to latest versions

sudo apt upgrade

Upgrade installed packages to latest versions

sudo apt upgrade

Upgrade with dependency additions/removals

sudo apt full-upgrade

Installing and Removing Packages

Install a package (e.g., `nginx`)

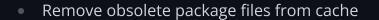
sudo apt install <package>

• Install specific version (e.g., `nginx=1.18.0-0ubuntu1`)

```
sudo apt install <package>=<version>
    Remove package, keep config files
   sudo apt remove <package>
    Remove package and config files
   sudo apt purge <package>
   Remove unneeded dependencies
  sudo apt autoremove
Searching and Querying Packages
   Search packages by name/description (e.g., `nginx`)
  apt search <keyword>
   List all installed packages
  apt list --installed
   List packages with available upgrades
   apt list --upgradable
   Show package details (e.g., `nginx`)
```

```
apt show <package>
   List available versions across repositories
  apt madison <package>
Managing Repositories
   Add a PPA (e.g., `ppa:nginx/stable`)
  sudo add-apt-repository <ppa>
   Remove a PPA
  sudo add-apt-repository --remove <ppa>
   Edit `/etc/apt/sources.list`
  sudo apt edit-sources
   View repository configuration
  cat /etc/apt/sources.list
   List additional repository files
  ls /etc/apt/sources.list.d/
```

Package Maintenance and Cleanup



sudo apt autoclean

Clear entire package cache

sudo apt clean

Simulate package removal

sudo apt remove --dry-run <package>

Fix interrupted installations

sudo dpkg --configure -a

Resolve broken dependencies

sudo apt -f install

Holding and Pinning Packages

Prevent package upgrades (e.g., `nginx`)

sudo apt hold <package>

Allow held package to upgrade

```
sudo apt unhold <package>
   Alternative way to hold a package
  echo "<package> install" | sudo dpkg --set-selections
   Pin package versions via priority settings
  sudo vim /etc/apt/preferences
Advanced Commands
   Show package dependencies
  apt depends <package>
```

Show packages depending on the specified package

```
apt rdepends <package>
```

• Show installed and available versions, priorities

```
apt-cache policy <package>
```

Install build dependencies for a package

```
sudo apt build-dep <package>
```

Download source code for a package

sudo apt source <package>

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