

Linux Cheat Sheet

Suse Commands



Hardware Information		Network Commands	
hwinfoshort wlan	Displays a summary of the wireless network devices installed on the system, including vendor, model, and driver details	ip a	Shows all of the system's network interfaces' IP addresses and network configuration
hwinfoshort gfxcard	Displays a brief description of the graphics card (GPU) installed on the system, along with information about the vendor, model, and drivers	ip ru; ip route show table all	Displays the system's routing tables and rules for network traffic
lspci	Lists all PCI devices connected to the system and can be used to determine the hardware components installed there and the drivers that go with them	iwconfig	Displays the wireless network interface configuration
lsusb	Lists all USB devices connected to the system, can be used to identify the USB devices installed on a system and their associated drivers	ss -anptu	Displays information about all active network connections and the processes that are associated with them
	Build Service	ss -anp	Provides details about all of the active network connections
osc bco <source project> <source package></source </source 	Creates a local working copy of the source code package from the specified OBS project and package	<u>traceroute</u>	Identifies the path that packets take from one computer to a target destination by showing the intermediate hops
osc commit -m " <comment>"</comment>	Commits the changes made to the local copy of the source code back to the OBS project	<u>nslookup</u>	Enquires about domain names and IP addresses from the DNS (Domain Name System)
osc sr	Submits a request to the OBS to integrate the changes made to the source code package in the local working copy back to the OBS project	<u>ifconfig</u>	Displays information about the network interfaces on a system, such as their IP addresses, netmasks etc
Ya	ST Administration	route	Displays and modifies the kernel's IP routing table
yast –-qt	Starts the YaST graphical interface using the Qt toolkit	ping hostname	Sends a packet to a specified host and timers the host's response
yastgtk	Starts the YaST graphical interface using the GTK toolkit	<u>firewall-cmd</u>	Configures the firewall settings on a Linux system
yastncurses	Starts the YaST interface in a text-based mode, using the ncurses library, allowing for system administration tasks to be performed in a text-based mode.	<u>netstat</u>	Shows network-related information such as open ports and active connections
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yast -l	Lists every YaST module that is currently available	Pac	kage Maintenance
yast <modulename></modulename>	Launches a particular YaST module, enabling the execution of system administration tasks via a graphical or text- based interface, depending on the module	osc mbranch -c \$PACKAGE	Makes a new branch for a given package in the OBS
Pac	kage Management	osc patchinfo	Displays the list of patches that have been applied to a package in the OBS
zypper ar -f <url> <alias></alias></url>	Adds a new repository to the system with the specified URL and alias	osc submitrequest (sr)	Submits a package update request to the OBS to integrate changes made in a package branch
zypper lp	Finds out what patch updates are needed		Package Editing
zypper patch	Applies the needed patches	osc add \$FILE	Adds new files to the package
zypper ref	Updates the repository metadata for all configured repositories to reflect the most recent software releases	osc addremove (c	Adds new files and deletes removed files from the package
zypper up	Updates every installed package to the most recent version that is available in the configured repositories	osc del (rm) \$FILE	Deletes files from the package
zypper dup	Upgrades the entire system to the latest available packages	osc commit (ci)	Commits changes to the package
zypper if <package name=""></package>	Displays comprehensive details about a specific package, including its version, size, summary, and dependencies	osc vc	Views the version control status of the package
zypper se <package, pattern or dependancy name></package, 	Looks for packages by name, pattern, or dependency	osc up	Updates the package to the latest version
zypper se provides <file path></file 	Searches for packages that provide a specific file	osc status (st)	Views the status of the local package compared to the remote repository
zypper se tiff	Finds packages matching the name or description "tiff"	osc log	Views the revision history of the package
zypper se -s tiff	Searches for packages with the name or description "tiff" and displays a brief summary of each package		Help
zypper se -i tiff	Carries out a search for packages matching the name or description "tiff" and displays detailed information about each one, such as its version, size, summary, and dependencies	man zypper	Displays the zypper command's manual page, which contains comprehensive instructions on how to use zypper and descriptions of its options, subcommands, and syntax
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zypper se -u tiff	Looks for packages with the name or description "tiff" that have an update available	zypper help [command name]	Displays help details for the command that is specified
zypper se -x tiff	Searches for packages with the name or description "tiff" that are not installed	Kernel a	nd Module Management
zypper in digikam	Installs the package "digikam" and its dependencies from the specified repositories	<u>uname -r</u>	Displays the current Linux kernel version and release
zypper inrepo myspecialrepo digikam	Installs "digikam" and its dependencies from the configured repositories as well as the "myspecialrepo" repository	<u>dmesg</u>	Shows kernel messages, which can provide information about hardware events, boot process, and other system activity
zypper in -D repo myspecialrepo digikam	Installs the "digikam" package and its dependencies from the "myspecialrepo" repository, choosing the most appropriate dependencies automatically based on system architecture and package version	rmmod [modulename]	Removes the specified kernel module from the currently running kernel
zypper in -d repo myspecialrepo digikam	Does not install the "digikam" package and its dependencies after downloading them from the "myspecialrepo" repository	modprobe [modulename]	Loads the specified kernel module
zypper rm digikam	Removes the "digikam" package and all of its dependencies from the system	lsmod	Lists currently loaded kernel modules
zypper install <package name=""></package>	Installs packages by name	U	lser Management
zypper info <package name=""></package>	Displays detailed information about a specific software package	<u>useradd</u> <name></name>	Creates a new user account on the system
rpm -ql <package name></package 	Lists every file that a package has installed, along with their path and permissions	<u>userdel <name></name></u>	Deletes a user account from the system
System	Monitoring & Memory Information	<u>passwd <name></name></u>	Changes the password for a user account
<u>free</u>	Shows details about the system's memory usage, including the total amount of available memory, the amount that has been used, and the amount of free memory	<u>usermod</u> <options> <name></name></options>	Modifies an existing user account, such as changing the user's home directory or shell
<u>htop</u>	Provides an enhanced and more detailed view of system processes compared to the top		
journalctl	Provides a centralized and structured view		
je	of system logs		

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<u>kill</u>	Terminates a process	Sy	vstemd Commands
less /proc/meminfo	Displays details about the system's memory usage, such as the total amount of available memory, how each process is using it, and other information	systemctl shutdown	Shuts down the system, powering it off entirely
less /proc/cpuinfo	Shows specific details about the CPU, such as its model, speed, cache size, and other characteristics	systemctl reboot	Restarts the system
lscpu	Provides information on the capabilities and architecture of the CPU	systemctl restart network	Restarts the network service, which can be useful for applying network configuration changes
<u>lsof less</u>	Lists all open files on the system and displays them in a scrollable format	systemctl stop firewalld	Stops the firewall daemon, which may be necessary if you need to perform tasks that require temporarily disabling the firewall
lsof grep -i filename	Lists all open files on the system and displays them in a scrollable format	systemctl start apache2	Starts the Apache web server
pkill	Terminates or signal processes without specifying their process IDs	systemctl status smb	Shows the status of the Samba file and print sharing service, indicating whether it is running or not

Shows a list of active processes along with systemctl enable Enables the SSH daemon, which allows ps -ef their process IDs (PIDs) and other details sshd secure remote access to the system Displays the running processes as a Disables the Common Unix Printing systemctl hierarchical tree, with parent-child System (CUPS), which provides printing pstree disable cups relationships highlighted services Provides advanced features such as log systemctl list-Lists all of the active services managed by

is running or not

rsyslog	filtering, message routing, and message modification	unitstype service	Systemd
sar	Provides information on CPU, memory, disk I/O, and network activity	systemctl status <service name=""></service>	Shows a service's status, including whether it is running, stopped, or failed
swapon -a	Activates all available swap partitions	systemctl start <service name=""></service>	Initiates a particular service
swapoff -a	Deactivates all active swap partitions	systemctl stop <service name=""></service>	Halts a particular service
<u>top</u>	Provides real-time details on system activities, resource usage, and other system statistics	systemd-delta	Shows the differences between the default Systemd unit files and any custom unit files
uname -a	Displays information about the current operating system	systemctl restart <service name></service 	Restarts a specific service
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	File System	systemd-analyze blame	Displays how long it takes for each service to start when the system first boots up
fdisk -l	Displays a list of all the system's disks and partitions	systemd-analyze plot >filename.svg	Creates an SVG image that displays how long it took for each service to start during system startup
lsblk	Provides details on all of the available block devices	timedatectl	Shows the current system time and date, along with the time zone and any setup NTP (Network Time Protocol) servers.
findmnt	Shows details about the file systems that are currently mounted	File an	d Directory Operation
less /proc/self/mount info	Displays complete information about mounted file systems	<u>cat</u>	Creates, displays, and concatenates files
<u>mount -t <type></type></u> <device> <mount point></mount </device>	Mounts a file system with the specified type, device, and mount point	<u>cd</u>	Changes the current working directory
mount -t iso9660 -o loop dvd- image.iso <mount point=""></mount>	Mounts an ISO image to a specified mount point	cd	Moves up one level in the directory structure
umount /dev/ <device></device>	Unmounts the specified device	cd -	Moves back to the previous directory
umount / <mount point></mount 	Unmounts the specified mount point	<u>cp</u>	Copies files and directories
<u>dfo -h</u>	Shows details about the system's use of the disk, such as the filesystem, size, amount of used space, amount of available space, and usage percentage	cp -r	Copies files and directories from one location to another
df output=target,fst ype,pcent	Shows the target mount point, filesystem type, and percentage of disk usage for each filesystem that is mounted	<u>find</u>	Searches for files and directories in a specified location based on various criteria such as file name, size, type, etc
<u>du -h</u>	Displays each file's and directory's disk usage data in the current directory tree in a human readable format	<u>grep</u>	Searches for a specific pattern or string in a file or output from another command
du -h -t10M	Displays disk usage information for each file and directory in the current directory tree that is larger than 10 megabytes, in human-readable format	<u>In</u>	Creates a link between files or directories
	File Permission	<u>ls</u>	Lists directory contents
<u>chgrp</u>	Changes group ownership of one or more files to a specified group	<u>mkdir</u>	Creates a new directory
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<u>chmod</u>	Changes the permissions (read, write, execute) of one or more files	<u>rmdir</u>	Removes an empty directory
<u>chown</u>	Changes the ownership (user and group) of one or more files or directories to a specified user and group	<u>locate</u>	Searches for files on the system using a pre-built database
File Con	npression and Archiving	<u>mv</u>	Moves or renames files or directories
<u>bzip2</u>	Compresses files & decompresses compressed files	<u>pwd</u>	Displays the current working directory
<u>zip</u>	Creates a compressed archive of multiple files and directories that are saved with a .zip extension	<u>rm</u>	Removes files or directories
<u>tar</u>	Creates or extracts tar archives, which are commonly used for backup and distribution purposes	<u>rsync</u>	Synchronizes files and directories between systems
<u>gzip</u> unzip	Compresses files in the gzip format Extracts files from a .zip archive		
		m Layout	
/bin	Contains essential user command binaries (programs) that are required during system booting and for running the system	/proc	Contains a virtual file system that provides information about running processes and system configuration
/boot	Contains the files needed for booting the system	/run	Contains runtime data that is required by system services and applications
/dev	Contains device files, which are special files that allow programs to interact with hardware devices such as hard drives, USB drives, printers, etc	/sbin	Contains essential system administration binaries that are required for system maintenance tasks
/etc	Contains configuration files for the system and various applications	/srv	Used for storing data for specific services provided by the system
/home	Contains the home directories for all regular users on the system	/sys	Contains a virtual file system that provides information about the system's hardware devices and their configuration
/lib*	Contains shared library files	/tmp	Used for temporary files that are created by system processes and applications
/mnt	Used for temporarily mounting file systems or devices	/usr	Contains user binaries, libraries, and documentation for various applications installed on the system
/opt	Used for installing third-party software packages	/var	Contains variable data, such as log files, spool files, and temporary files created by system processes and applications
/root	Home directory for the root user		-/ F akk