Cheatography

Linux

by jhaley32 via cheatography.com/123058/cs/23103/

Adding a r	new blk device
1. Device discovery	follow dmesg, or fdisk -I, of Isblk. find location or new device in /dev/
2. format device to create partition	fdisk, gpart; several options.
3. create a file system for the newly made partition	mkfs -t ext4 /dev/sda*
4. create mount dir	mkdir mount directory
5. mount drive	mount /dev/sda mount directory*
6. add entry into fstab	try using blkid to find UUID, then add device with UUID to /etf/f-stab. UUID; mount point; FS type; options; backup infomation(0); FS integrity test order

Process Signals					
Signal	Portable Number	Default Action	Descri- ption		
SIGHUP	1	Terminate	Hangup		
SIGINT	2	Terminate	Terminal interrupt signal		
SIGQUIT	3	Terminate (core dump)	Terminal quit signal		
SIGILL	4	Terminate (core dump)	Illegal instru- ction		

Process Sig	nals ((cont)	
SIGTRAP	5	Terminate (core dump)	Trace/bre- akpoint trap
SIGABRT	6	Termin- ate(core dump)	Process Abort Signal
SIGFPE	8	Terminate (core dump)	Erroneous arithmetic operation
SIGKILL	9	Terminate	Kill (cannot be caught or ignored)
SIGSEGV	11	Terminate (core dump)	Invalid memory reference
SIGPIPE	13	Terminate	Write on a pipe with no one to read it
SIGALARM	14	Terminate	Alarm Clock
SIGTERM	15	Terminate	Termin- ation signal

Inode breakdown				
Size of File	Size of the file			
Device ID				
UID	User ID			
GID	Group ID			
TIMESTAMPS	access, modify, change- (inode)			
MODE	permissions			
12 Direct Pointers	points to first 12 data blocks of the file			
Indirect	points to a table of addresses for next blocks in a file			
x2 Indirect	points to a series of tables with extrea data blocks,			

Inode breakdown (cont)				
x3 Indirect	same as above x3			

systemct

starting and stopping services

sudo systemctl start application.service

sudo systemctl looks for *.service systemctl already, not necessary to actually place in command.

application

sudo systemctl stop application.service

restarting and reloading

sudo fully restart srevice.
systemctl
restart

application.service

sudo reload config files without systemctl restarting.

reload
application.service

sudo if unsure that it can reload, systemct1 this will try reload first then reload- restart.

or-restart application.service

Enabling and Disabling Services

sudo creates a sym link from the systemctl system's copy of the service file (usually in /lib/sys-applic-temd/system or /etc/-ation.s-systemd/system) into the location on disk where

systemd looks for autostart

files.

sudo removes sym link

systemctl disable application.service

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systemctl (cont)

Checking the Status of Services

systemctl status application.s-

This will provide you with the service state, the cgroup hierarchy, and the first few log lines.

ervice

systemct1 isactive if true applic-

This will return the current unit state, which is usually active or inactive. exit code 0

ation.service

enabled

applic-

ation.s-

This will output whether the systemctl service is enabled or disabled. Exit code 0 if true.

ervice systemctl isfailed

applic-

ation.s-

ervice

This will return active if it is running properly or failed if an error occurred. If the unit was intentionally stopped, it may return unknown or inactive. Exit code 0 if failure has occurred.

Listing Current Units

systemctl list-units

This will show you a list of all of the units that systemd currently has active on the system

This will show any unit that svstemct1 listsystemd loaded or attempted to load, units -regardless of its current state a11 on the system. Another common filter is the

systemctl list-units -all --state=inactive

--type= filter. We can tell systemctl to only display units of the type we are interested in.

systemctl list-unit-files

Units are representations of resources that systemd knows about. Since systemd has not necessarily read all of the unit definitions in this view, it only presents information about the files themse-

Displaying a Unit File

systemctl cat atd.seThe output is the unit file as known to the currently running systemd process.

Displaying Dependencies

systemctl (cont)

systemctl list-dependencies sshd.s-

ervice

This will display a hierarchy mapping the dependencies that must be dealt with in order to start the unit in question.

Checking Unit Properties

To see the low-level systemctl properties of a unit, you can show use the show command. sshd.service To display a single property, systemctl you can pass the -p flag show sshd.service with the property name. -p Conflicts Masking mark a unit as completely

and unstartable, automatically or Unmasking manually, by linking it to Units /dev/null. sudo

This will prevent the Nginx systemctl service from being started, automatically or manually, mask for as long as it is masked. nginx.s-

sudo systemct1 unmask nginx.s-

ervice

ervice

This will return the unit to its previous state, allowing it to be started or enabled.

Editing Unit Files



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systemctl (cont)

sudo
systemctl
edit
nginx.service

This will be a blank file that can be used to override or add directives to the unit definition. A directory will be created within the /etc/systemd/system directory which contains the name of the unit with .d appended. For instance, for the nginx.service, a directory called nginx.service.d will be created.

sudo
systemctl
edit -full

This will load the current unit file into the editor, where it can be modified.

nginx.service

sudo rm - remove snippet created

/etc/s-

yst-

emd/system/n-

ginx.s-

ervice.d

sudo rm

/etc/s-

To remove a full modified unit file, we would type:

ystemd/system/nginx.service

Adjusting the System State (Runlevel) with Targets

systemctl find the default target for get-de- your system

fault

systemctl (cont)

sudo If you wish to set a different systemctl default target, you can use set-de- the set-default. For instance, fault if you have a graphical desktop installed and you wish for the system to boot into that by default, you can change your default target accordingly:

Listing Available Targets

systemctl You can get a list of the list-unit-files available targets on your system by typing etarget

systemctl To see all of the active list-units -- targets, type:

type=target

Isolating Targets

systemctl list-dependencies
multi-user.target

sudo systemctl isolate multi-user.target

Using Shortcuts for Important Events

put the system into rescue sudo (single-user) mode, you can systemctl just use the rescue rescue command sudo To halt the system, you can use the halt command: systemctl halt To initiate a full shutdown, sudo systemctl you can use the poweroff command: poweroff

systemctl (cont)

sudo A restart can be started systematl with the reboot command: reboot



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