Cheatography

Introduction to systemd

rhsa1_8 Cheat Sheet by Mick via cheatography.com/48367/cs/13678/

System startup and server processes are managed by the systemd System and Service Manager. This program provides a method for activating system resources, server daemons, and other processes, both at boot time and on a running system.

Summary of system commands	ctl	
View detailed information about a unit state.	systemctl status UNIT	I
Stop a service on a running system.	systemctl stop UNIT	a 1
Start a service on a running system.	systemctl start UNIT	a (
Restart a service on a running system.	systemctl restart UNIT	<i>a</i> (
Reload configuration file of a running service.	systemctl reload UNIT	i
Completely disable a service from being started, both	systemctl mask UNIT	(
manually and at boot.		ŝ
Make a masked service available.	systemctl unmask UNIT	
Configure a service to start at boot time.	systemctl enableUNIT	

Summary of systemctl
commands (cont)

Disable a service	systemctl
from starting at boot	disable
time.	UNIT
List units which are	systemctl
required and wanted	list-
by the specified unit.	dependenci
	esUNIT

Keywords indicating the state of the service		
loaded	Unit configuration file has been processed.	
active(ru nning)	Running with one or more continuing processes.	
active (exited)	Successfully completed a one-time configuration.	
active (waiting)	Running but waiting for an event.	
inactive	Not running.	
enabled	Will be started at boot time.	
disabled	Will not be started at boot time.	
static	Can not be enabled, but may be started by an enabled unit automatically	

Listing unit files with systemctl

 Query the state of all units to verify a system startup. [root@serverX ~]# systemctl Listing unit files with systemctl (cont)

2. Query the state of only the service units. [root@serverX ~]# systemctl --type=service 3. Investigate any units which are in a failed or maintenance state. -1 option to full output. [root@serverX ~]# systemctl status rngd.service -1 4. Alternate commands can also easily show the active and enabled states: [root@serverX ~]# systemctl isactive/enabled sshd 5. List the active state of all loaded units. [root@serverX ~]# systemctl list-units -type=service --all 6. View the enabled and disabled settings for all units. [root@serverX ~]# systemctl list-unit-files --type=service

7. View only failed
services.
[root@serverX ~]#
systemctl --failed -type=service

Enabling system daemons to start or stop at boot

1. View the status of a service. [root@serverX ~]# systemctl status sshd.service 2. Disable the service and verify the status. Note that disabling a service does not stop the service. [root@serverX ~]# systemctl disable sshd.service [root@serverX ~]# systematl status sshd.service 3. Enable the service and verify the status. [root@serverX ~]# systemctl enable sshd.service [root@serverX ~]# systemctl is-enabled sshd.service

Starting and stopping system daemons

1. View the status of a service. [root@serverX ~]# systemctl status sshd.service 2. Verify that the process is running. [root@serverX ~] # ps -up PTD 3. Stop the service and verify the status. [root@serverX ~]# systemctl stop/status sshd.service 4. Start the service and view the status. The process ID has changed.

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Starting and stopping system daemons (cont)

[root@serverX ~]# systemctl start/status sshd.service 5. Stop, then start, the service in a single command. [root@serverX ~]# systemctl restart/status sshd.service 6. Issue instructions for a service to read and reload. The process ID will not change. [root@serverX ~]# systemctl reload/status sshd.service

Identify the Status of systemd Units

1. List all service units on the system. [student@serverX ~]\$ sudo systemctl list-units -type=service 2. List all socket units, active and inactive, on the system. [student@serverX ~]\$ sudo systemctl list-units -type=socket --all 3. Explore the status of the chronyd service. This service is used for network time synchronization (NTP). a. Display the status of the chronyd service. Note the process ID of any active daemons.

Identify the Status of systemd Units (cont)

[student@serverX ~]\$ sudo systemctl status chronyd b. Confirm that the listed daemons are running. [student@serverX ~]\$ ps -p PID

4. Explore the status of the sshd service. This service is used for secure encrypted communication between systems. a. Determine if the sshd service is enabled to start at system boot. [student@serverX ~]\$ sudo systemctl is-enabled sshd b. Determine if the sshd service is active without displaying all of the status information. [student@serverX ~]\$ sudo systemctl is-active sshd c. Display the status of the sshd service. [student@serverX ~]\$ sudo systemctl status sshd 5. List the enabled or disabled states of all service units. [student@serverX ~]\$ sudo systemctl list-unit-files --type=service

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