



## systemd: Management Tools, Unit Files, and Targets

Although complicated in its own ways, `systemd` got it right by creating a single command used to manage just about everything related to managing a `systemd` system. The options and arguments can be long but the command supports a very robust tab completion system. This means entire options do not have to be typed out (similar to a Cisco IOS environment) as long as the characters that are typed are unique. You can also double tap tab at any point to quickly get a list of available options without having to consult the man page. The command is called `systemctl`.

When managing units with the `systemctl` command, if the type of unit is not specified, then it is assumed that the unit type is a service. For example, `systemctl status httpd` is the same as `systemctl status httpd.service`. To learn more about the `systemctl`, refer to the following man page:

- `man 1 systemctl`

Commands	Actions
<code>systemctl start stop restart &lt;name&gt;</code>	Start, stop, or restart a service
<code>systemctl status &lt;name&gt;</code>	Get service status
<code>systemctl list-units --type service --all</code>	List all available services
<code>systemctl enable disable &lt;name&gt;</code>	Enable/Disable a service
<code>systemctl set-default &lt;target&gt;</code>	Set default target
<code>systemctl get-default</code>	Get default target
<code>systemctl list-unit-files -t service</code>	Determine what services are configured to start on boot

## systemd: Unit Files



# BOOT, INITIALIZATION, AND LOGIN

Unit Type	Description	Man page
Service	Start and control daemons and the processes they consist of .	man 5 systemd.service
Socket	Encapsulate local IPC or network sockets in the system, useful for socket-based activation.	man 5 systemd.socket
Target	Used to group units together during boot-up.	man 5 systemd.target
Device	Expose kernel devices in systemd and implement device-based activation.	man 5 systemd.device
Mount	Control mount points.	man 5 systemd.mount
Automount	Provide automount capabilities.	man 5 systemd.automount
Snapshot	And temporarily save the state of the set of systemd units.	man 5 systemd.snapshot
Timer	For triggering activation of other units based on timers.	man 5 systemd.timer
Swap	Which are similar to mount units and encapsulate memory swap partitions or files for the operating system.	man 5 systemd.swap
Path	Are used to activate other services when filesystem objects change or are modified.	man 5 systemd.path
Slice	Group units which manage system processes in a hierarchical tree for resource management purposes.	man 5 systemd.slice
Scope	Similar to service units, but manage foreign processes instead of starting them.	man 5 systemd.scope



## systemd: Targets

Runlevel	Target
0	poweroff.target
1	rescue.target
2	multi-user.target
3	multi-user.target
4	multi-user.target
5	graphical.target
6	reboot.target