# Systemd vs SysVinit

**Service Related Commands**

| Comments | SysVinit | Systemd |
|---|---|---|
| Start a service | service dummy start | systemctl start dummy.service |
| Stop a service | service dummy stop | systemctl stop dummy.service |
| Restart a service | service dummy restart | systemctl restart dummy.service |
| Reload a service | service dummy reload | systemctl reload dummy.service |
| Service status | service dummy status | systemctl status dummy.service |
| Restart a service if already running | service dummy condrestart | systemctl condrestart dummy.service |
| Enable service at startup | chkconfig dummy on | systemctl enable dummy.service |
| Disable service at startup | chkconfig dummy off | systemctl disable dummy.service |
| Check if a service is enabled at startup | chkconfig dummy | systemctl is-enabled dummy.service |
| Create a new service file or modify configuration | chkconfig dummy --add | systemctl daemon-reload |

Note:New version of systemd support "systemctl start dummy" format

**Runlevels**

| Comments | SysVinit | Systemd |
|---|---|---|
| System halt | 0 | runlevel0.target, poweroff.target |
| Single user mode | 1, s, single | runlevel1.target, rescue.target |
| Multi user | 2 | runlevel2.target, multi-user.target |
| Multi user with Network | 3 | runlevel3.target, multi-user.target |
| Experimental | 4 | runlevel4.target, multi-user.target |
| Multi user,with Network,graphical mode | 5 | runlevel5.target, graphical.target |
| Reboot | 6 | runlevel6.target, reboot.target |
| Emergency Shell | emergency | emergency.target |
| Change to multi user runlevel/target | telinit 3 | systemctl isolate multi-user.target(OR systemctl isolate runlevel3.target) |
| Set multi-user target on next boot | sed s/^id:.*:initdefault:/id:3:initdefault:/ | ln -sf /lib/systemd/system/multiuser.target /etc/systemd/system/default.target |
| Check current runlevel | runlevel | systemctl get-default |
| Change default runlevel | sed s/^id:.*:initdefault:/id:3:initdefault:/ | systemctl set-default multi-user.target |

**Miscellaneous Commands**

| Comments | SysVinit | Systemd |
|---|---|---|
| System halt | halt | systemctl halt |
| Power off the system | poweroff | systemctl poweroff |
| Restart the system | reboot | systemctl reboot |
| Suspend the system | pm-suspend | systemctl suspend |
| Hibernate | pm-hibernate | systemctl hibernate |
| Follow the system log file | tail -f /var/log/messages or tail -f /var/log/syslog | journalctl -f |

**Systemd New Commands**

| Comments | Systemd |
| --- | --- |
| Execute a systemd command on remote host | systemctl dummy.service start -H user@host |
| Check boot time | systemd-analyze or systemd-analyze time |
| Kill all processes related to a service | systemctl kill dummy |
| Get logs for event for today | journalctl --since=today |
| Hostname and other host related information | hostnamectl |
| Date and time of system with timezone and other information | timedatectl |