

Managing SysV Init

LPIC-2: Linux Engineer (201-450)

Objectives:

At the end of this episode, I will be able to:

1. Determine if a system is running SysVinit.
2. Describe the function of init runlevels and switch between them.
3. Use the service and chkconfig commands to control background services.

Additional resources used during the episode can be obtained using the download link on the overview episode.

- SysVinit at startup
 - SysVinit runs the `/etc/rc.d/rc.sysinit` script
 - On some older systems `/etc/rc.local` when init finishes

- Runlevels:
 - 0 - Halt
 - 1 - Single user mode
 - 2 - Multiuser text mode without networking
 - 3 - Multiuser text mode
 - 4 - Unused
 - 5 - Multiuser with GUI
 - 6 - Reboot
 - NOTE: Can vary between distros

- Runlevel config files
 - Each runlevel maintains its own
 - `/etc/rc.d/rc#.d`
 - May just contain symlinks to `/etc/init.d/`

- Set the default runlevel in `/etc/inittab`

- Verify runlevel (two ways)

- `runlevel`
 - Returns two values, eg `N 5`
 - `N` means it has not changed since boot
 - `5` means current runlevel of 5

- `who -r`
 - Displays the current runlevel

- Changing the runlevel

1. Gather some information:

- `who` (See who is logged in)
- `who -r` (See the current runlevel)

2. Run `init #`

- Configuring a service to start at boot

- `chkconfig httpd <on|off>`
- `chkconfig --list`

- `chkconfig --level 235 mysqld on`

- **Managing a service**

- `service httpd start`
- `service httpd stop`
- `service httpd restart`
- `service httpd status`