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Displaying Runlevels

This tip is about a couple of utilities to help you deal with init scripts and runlevels. Gentoo Linux has four main runlevels: boot, default, nonetwork, single. To manipulate these, use the `/sbin/rc-update` command. While `rc-update add` and `rc-update del` are covered in the Gentoo Docs, you may be wondering how to see the runlevels a service is in. This is done with the `rc-update show` command.

Code Listing 8.1: rc-update show

```
// Show all services and their runlevels
# rc-update show
    apache2 |      default
      atd   |      default
authdaemon |
  bootmisc | boot
  checkfs  | boot
  checkroot| boot
...many more lines truncated...
```

Note: You can also look in `/etc/runlevels`. Each runlevel is a separate directory and in those directories are symlinks to the various services in `/etc/init.d`.

Another useful tool is `rc-status` which made its way into baselayout with Bug #4222. It tells you which services are currently running:

Code Listing 8.2: rc-status

```
// Show which services are running
# rc-status
Runlevel: default
  apache2                                [ started ]
   atd                                    [ started ]
  cupsd                                  [ started ]
  dcron                                   [ started ]
  ddclient                                [ started ]
  local                                   [ off      ]
...and many more lines...
```

Finally, sometimes you may want to start all the services in your current runlevel that aren't running (because you stopped them). Simply type `rc` to start all the missing services.
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http://gentoo.linuxhowtos.org/TipsTricks/display_runlevels.pdf

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