

How OpenRC Works

/etc/inittab

Init needs a configuration file that specifies what actions need to be taken. This configuration file is `/etc/inittab`

sysinit

init's first action is to mount all file systems. This is defined in the following line from `/etc/inittab`. `si::sys in it: /sb in/ - openrc sysinit`

bootwait

init's second action is to execute all scripts that had symbolic links in `/etc/runlevels/-boot/`. This is defined in the following line from `/etc/inittab`. `rc::bo otw ait :/s b in /openrc boot`

initdefault

init checks its configuration file to see what runlevel it should run. To decide this, it reads the following line from `/etc/inittab`. `id :3:i nit def ault:`

runlevel

In this case the runlevel id is 3. Using this information, init checks what it must run to start runlevel 3. `l3:3:w ait :/s bin / openrc default`. The line that defines level 3, again, uses the `openrc` script to start the services (now with argument `default`)

How OpenRC Works (cont)

consoles

init decides what virtual consoles it should activate and what commands need to be run at each console.

```
c1:12345:respawn:/sbin/agetty 38400
tty1 linux
c2:12345:respawn:/sbin/agetty 38400
tty2 linux
c3:12345:respawn:/sbin/agetty 38400
tty3 linux
c4:12345:respawn:/sbin/agetty 38400
tty4 linux
c5:12345:respawn:/sbin/agetty 38400
tty5 linux
c6:12345:respawn:/sbin/agetty 38400
tty6 linux
```

Configuration

`/etc/rc.conf`

Runlevels

`sysinit`

`shutdown`

`reboot`

`boot`

`default`

`nonetwork`

`single`

Initscripts

Working with initscripts

The scripts that the `openrc` process starts are called init scripts. Each script in `/etc/init.d/` can be executed with the arguments `start`, `stop`, `restart`, `zap`, `status`, `ineed`, `iuse`, `iwant`, `needsme`, `usesme`, or `wantsme`.

Start a service

`/etc/init.d/postfix start`

Stop a service, but not the services that depend on it

`/etc/init.d/postfix --nodeps stop`

See what status a service has

`/etc/init.d/postfix status`

Ask what dependencies the service has

`/etc/init.d/postfix ineed`

Ask what services require the service

`/etc/init.d/postfix needsme`

Configuring services

/etc/conf.d

Every init script that can be configured has a file in `/etc/conf.d/`. For instance, the `apache2` init script (called `/etc/init.d/apache2`) has a configuration file called `/etc/conf.d/apache2`, which can contain the options to give to the Apache 2 server when it is started. Such a configuration file contains only variables.



By **misterrabinhalder**

cheatography.com/misterrabinhalder/

Published 17th May, 2019.

Last updated 17th May, 2019.

Page 1 of 2.

Sponsored by **ApolloPad.com**

Everyone has a novel in them. Finish Yours!

<https://apollopad.com>

Replacing default runlevel

Replace runlevel

Add a new entry in the bootloader configuration for the desired runlevel. In that entry, add `softlevel=desired` as a boot parameter.

Working with runlevel

Change to nonnetwork runlevel `rc nonetwork`

Change to default runlevel `rc default`

Change to shutdown runlevel `rc shutdown`

Change to reboot runlevel `rc reboot`

Show status info about runlevels `rc-status [runlevel]`

Locate and run an OpenRC service `rc-service service cmd [...]`

Adding services `rc-update add postfix default`

Removing services `rc-update del postfix default`

Showing services `rc-update show`



By **misterrabinhalder**

cheatography.com/misterrabinhalder/

Published 17th May, 2019.

Last updated 17th May, 2019.

Page 2 of 2.

Sponsored by **ApolloPad.com**

Everyone has a novel in them. Finish

Yours!

<https://apollopad.com>