

### 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::sy sin - 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 bin /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.



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### 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	<code>rc nonetwork</code>
Change to default runlevel	<code>rc default</code>
Change to shutdown runlevel	<code>rc shutdown</code>
Change to reboot runlevel	<code>rc reboot</code>
Show status info about runlevels	<code>rc-status [runlevel]</code>
Locate and run an OpenRC service	<code>rc-service service cmd [...]</code>
Adding services	<code>rc-update add postfix default</code>
Removing services	<code>rc-update del postfix default</code>
Showing services	<code>rc-update show</code>



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