Alpine Linux Init System

From Alpine Linux

Contents

Quick-Start Information

Alpine Linux uses OpenRC (https://wiki.gentoo.org/wiki/OpenRC) for its init system.

The following commands are available to manage the init system:

- ```
  rc-update add service <runlevel>
  ```

- ```
  rc-update del service <runlevel>
  ```

- ```
  rc-service <service> <start stop restart>
  ```

  Equivalent to `/etc/init.d/service <start stop restart>`

- ```
  rc-status
  ```

  To check services and their set runlevels

- ```
  rc <runlevel>
  ```

  To change to a different runlevel

- ```
  reboot
  ```

Equivalent to `shutdown -r now` from traditional GNU/Linux systems

- ```
  halt
  ```

Equivalent to `shutdown -h now` from traditional GNU/Linux systems

- ```
  poweroff
  ```

To turn off the machine

Tip: Prior to Alpine Linux 2.0.0, you might need to use the following commands instead: *rc_add, rc_delete,* and *rc_status*.

Available Runlevels

The available runlevels are:

- **default** - Used if no runlevel is specified. (This is generally the runlevel you want to add services to.)
- **hotplugged**
- **needed**
- **manual**

The special runlevels are:

- **sysinit** - Brings up any system specific stuff such as `/dev`, `/proc` and optionally `/sys` for Linux based systems. It also mounts `/lib/rc/init.d` as a ramdisk using tmpfs where available unless `/` is mounted rw at boot. `rc` uses `/lib/rc/init.d` to hold state information about the services it runs. sysinit always runs when the host first starts and should not be run again.
- **boot** - Generally the only services you should add to the boot runlevel are those which deal with the mounting of filesystems, set the initial state of attached peripherals and logging. Hotplugged services are added to the boot runlevel by the system. All services in the boot and sysinit runlevels are automatically included in all other runlevels except for those listed here.
- **single** - Stops all services except for those in the sysinit runlevel.
- **reboot** - Changes to the shutdown runlevel and then reboots the host.
- **shutdown** - Changes to the shutdown runlevel and then halts the host.

rc-update usage

```
Usage: rc-update [options] add service <runlevel>
       rc-update [options] del service <runlevel>
       rc-update [options] show

Options: [suChqv]
  -s, --stack               Stack a runlevel instead of a service
  -u, --update              Force an update of the dependency tree
  -h, --help                Display this help output
  -C, --nocolor             Disable color output
  -v, --verbose             Run verbosely
  -q, --quiet               Run quietly
```

rc-status usage

```
Usage: rc-status [options] [runlevel1] [runlevel2] ...

Options: [aclrsuChqv]
  -a, --all                 Show services from all run levels
  -c, --crashed             Show crashed services
  -l, --list                Show list of run levels
  -r, --runlevel            Show the name of the current runlevel
  -s, --servicelist         Show service list
  -u, --unused              Show services not assigned to any runlevel
  -h, --help                Display this help output
  -C, --nocolor             Disable color output
  -v, --verbose             Run verbosely
  -q, --quiet               Run quietly
```

rc-service usage

```
Usage: rc-service [options]

Options: [e:ilr:ChqVv]
  -e, --exists <arg>        tests if the service exists or not
  -i, --ifexists            if the service exists then run the command
  -l, --list                list all available services
  -r, --resolve <arg>       resolve the service name to an init script
  -h, --help                Display this help output
  -C, --nocolor             Disable color output
  -V, --version             Display software version
  -v, --verbose             Run verbosely
  -q, --quiet               Run quietly
```

rc usage

```
Usage: rc [options]

Options: [a:o:s:SChqVv]
  -a, --applet <arg>        runs the applet specified by the next argument
  -o, --override <arg>      override the next runlevel to change into
                            when leaving single user or boot runlevels
  -s, --service <arg>       runs the service specified with the rest
```

```
                                        of the arguments
    -S, --sys                           output the RC system type, if any
    -h, --help                          Display this help output
    -C, --nocolor                       Disable color output
    -V, --version                       Display software version
    -v, --verbose                       Run verbosely
    -q, --quiet                         Run quietly
```

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- This page was last modified on 6 April 2015, at 21:34.