

Automating scripts

Scheduled, recurring, automatic
execution of scripts

cron

- Service to run scripts automatically at scheduled times
- Tools: `at`, `crontab`, `anacron`, `logrotate`
- Script locations: `/etc/crontab`,
`/etc/cron.d`, `/etc/cron.hourly`,
`/etc/cron.daily`, `/etc/cron.weekly`,
`/etc/cron.monthly`

Job definition

minute (0-59)

hour (0-23)

day of month (1-31)

Run mkbbackup.sh as root every working day at 02:05 AM

```
5 2 * * 1-5 root cd /home/scripts/backup && ./mkbbackup.sh
```

month (0-12) or jan, feb, ...

day of week (0-6) or sun,mon, ...

user-name

command

Startup scripts

- Startup scripts: `/etc/init/`,
`/etc/init.d/`
- Runlevel scripts:

| | | |
|----------|---------------------------------|--|
| 0 | <code>/etc/rc0.d/</code> | Shutdown and power off |
| 1 | <code>/etc/rc1.d/</code> | Single user mode |
| 2 | <code>/etc/rc2.d/</code> | Non GUI multi-user mode w/o networking |
| 3 | <code>/etc/rc3.d/</code> | Non GUI multi-user mode with networking |
| 4 | <code>/etc/rc4.d/</code> | Non GUI multi-user mode for special purposes |
| 5 | <code>/etc/rc5.d/</code> | GUI multi-user mode with networking |
| 6 | <code>/etc/rc6.d/</code> | Shutdown and reboot |