

# General

General concepts of FWS' roles

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Most of our roles follow the same principles :

- Limit the required configuration : most defaults try to auto configure themselves
- Auto generate password and other secrets when they are not defined
- Handle upgrades : we don't only manage installations, but also upgrades of existing installations
- Backup : during an upgrade, the previous installation will be backed up and archived so you can restore it in case something went wrong
- Integrate with other roles with hooks : dumps are handled by dropping hooks in `/etc/backup/{pre,post}.d`, which will be executed by the pre-backup command if you deploy the backup role. Let's Encrypt certificates works the same way etc.
- Keep softwares up to date : we try to maintain all the roles we're using up to date, and quickly update them when a new upstream version is released