

EL7 status

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EL7

- ▶ New EL7 release Jun 2014
 - ▶ Centos7 release Jul 2014
 - ▶ EPEL7 Aug 2014
 - ▶ SL7 Oct(?) 2014
- ▶ Few major changes, notably of interest to quattor
 - ▶ perl 5.16
 - ▶ systemd
 - ▶ grub2
- ▶ Requirements and running at UGent
 - ▶ ceph
 - ▶ for cephfs (well.....)
 - ▶ opennebula
 - ▶ new libvirt / qemu with ceph
 - ▶ freeipa 3.X (if we had time...)

The good news

- ▶ No modification to most components
 - ▶ If you can live with lots of taint errors
 - ▶ perl 5.16 is a lot more strict
 - ▶ no ncm-network bashing required ;)
- ▶ Minor changes due to usage of tmpfs in `/var/run`
 - ▶ already similar code for solaris
- ▶ Strict(er) usage of `Net::SSL`
- ▶ Removal of some legacy rpms from default packages
 - ▶ add dependencies in `pom.xml`
 - ▶ changes in packages list in templates
- ▶ `spma` works, but seems to require `userpkgs_retry = true`
 - ▶ mainly because current packages list contains some aliases
 - ▶ yum-based `spma` doesn't like aliases

The not so good news: All

- ▶ More features, new names, old code
- ▶ Major rewrite required
 - ▶ now with unittests!
- ▶ Code is now filled with version checks against anaconda
 - ▶ use the OS predefined variants
 - ▶ should allow to support fedora
- ▶ Good news: work is completed

All new features in EL7

- ▶ use static network configuration in All
 - ▶ pxe/setifnames = true
 - ▶ given MAC address, set the name from the templates
 - ▶ Not supported later though (eg changing the udev rules)
- ▶ Weird yum http client bug
 - ▶ requires patch to use proxies due to partial downloads not supported in an proxy server
 - ▶ yum doesn't honour the http standard wrt 204
 - ▶ anaconda patching is easy
 - ▶ pxe/updates = "http://url/updates.img"
- ▶ packages list in anaconda can now be delayed till the %post yum install step
 - ▶ ks/packagesinpost = true
 - ▶ all packages are installed as base_packages with yum
 - ▶ all packages required for quattor should be set in base_packages

The bad news

- ▶ grub2
 - ▶ needs new component
 - ▶ should be easier to make though
- ▶ systemd
 - ▶ not bad in itself
 - ▶ it's new and different, so relearn some basics
 - ▶ clear admin guidelines how to migrate from sysv exists
- ▶ taint errors
 - ▶ some are fatal
 - ▶ need CAF::Taint?

Systemd TODO

- ▶ /sbin/service still works
 - ▶ should be using CAF::Service
- ▶ chkconfig not so much
 - ▶ ncm-chkconfig is hopeless
 - ▶ new component is required
 - ▶ ongoing work
 - ▶ will support old chkconfig schema, but might not work on non-systemd
- ▶ systemd will take over lots of functionality
 - ▶ DNS
 - ▶ network (maybe in 7.1? needs systemd 210)
 - ▶ NCM::Component::Systemd module? (CAF::Systemd?)
- ▶ do we need Dbus support or continue cmdline?
- ▶ quattor services need unit files
 - ▶ ncm-cdispd
 - ▶ cdp-listend