EL7 status

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Quatttor workshop 30/09-02/10/2014
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