WP4-install progress

CERN, 19/6/2002

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Overview

- Plans
- Work done
- Issues

Initial Plans until R2

- For release 1.2 (End of March):
  - Bugfixes, documentation
  - LCFG light
- For release 1.3 (End of May):
  - Port new LCFG to EDG and RH62
- For release 1.4 (End of July):
  - Integrate new HLD configuration language and compiler
  - CDB->Kickstart translator prototype
  - Support for RH72
  - Integration with monitoring
  - Investigate CCM integration
- For release 2.0 (End of September):
  - Kept for buffer overflows…

Work done (I)

Release 1.2:

- Released
- Moved away from BOOTP to DHCP
  - Escape 64-byte limitations in options
- Some minor tasks on hold due to misc reasons (see progress reports)

Work done (II)

Release 1.3 – LCFGng

- EDG / LCFGng *almost* released – delay due to critical illness in Edinburgh
  - Will we be on time for release 1.3?
  - Heavy testing is required before releasing to development testbed (end of next week!)
- LCFGng backported from RH 7.1 to EDG 6.2
  - Local dependencies identified & removed in LCFGng components
  - Most issues solved (e.g. use of different bash versions)
  - Work now concentrating on base installation components
- Edinburgh's DICE build environment adapted/ported to EDG
  - Enable usage of same buildtools at EDG and Edinburgh
  - Conformance with EDG build tools
  - *Almost* all EDG+Edinburgh components ported to DICE build environment

Work done (III)

- LCFGng core libs/tools and components identified and imported into EDG CVS
  - ~ 20 components imported
  - More flexibility and robustness by maintaining separated CVS repositories for EDG and Edinburgh -> robustness, site independence
- EDG components/libs and EDG modified LCFG components rewritten/ported to LCFGng
  - ~ 15 components
  - Includes new components / libraries for improved configuration access, and managing init.d scripts
  - EDG aims are to use LCFG as *system configuration* tool only
  - EDG-LCFG Monitoring components available
- New configuration schema: first version to be presented tomorrow by Maite

Work done (IV)

Release 1.4 & 2.0

- Work on interfacing LCFG with the new HLD.
  - Worked on porting example components from `mkxprof` to `pan`.
  - `Pan` can generate output compatible with experimental LCFGng client.
  - Work on making the `.def` files optional is ongoing.
  - Integration is most likely to be labelled as 'experimental' (dvp testbed deployment)
- The CCM/NVA API discussions tomorrow will have a significant impact on what will be done for R1.4 and 2.0
- Replacing LCFG installer with KickStart/Anaconda: See presentation by INFN tomorrow
- Support for RH72:
  - LCFGng runs natively on RH71
  - Porting will be done based on the CERN certified RH72

Issues

- Multiplatform support
  - How to manage components for multiple platforms (now: RH62, RH72, in the future: RH X.Y, Solaris?)
  - How to manage release cycles for different platforms
  - Learn from other systems (eg. SUE)
- HLD integration
  - We have to weigh backwards compatibility with the need to integrate with the new HLD.
- Support for network boot (PXE, bpbatch)
  - Several solutions exist: CERN (pxelinux), Edinburgh (pxegrub), CNAF (bpbatch?)
  - Going towards KickStart/Anaconda will increase the choices
- Upgrade mechanism
  - Not sure yet if we can provide a non-intrusive upgrade for RH62 LCFG->LCFGng clients
- Documentation, documentation, documentation, docum…