DPM Upgrades

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Itinerary

- Moving to Puppet etc [the UK experience]

- Moving to 1.9.x from 1.8.x

Puppet "steps"

- Translating from YAIM to Puppet

- Catching niggles

- Testing | dpm-tester in future |

Glasgow approach

- Start: YAIM, with cfengine customisations

- Transitional: manual config, site puppet + cfengine transition

- Now: site puppet + dpm puppet invoked locally

- Future: site RPM-based installer (probably still invoking DPM puppet locally)

Strategy

- Why separate DPM puppet and site puppet config?

- Very different modules, most other services don't have their own puppet configurator.

- Easiest to treat DPM as a "black box" like everything else.

- Site scripts also, for example, provision filesystems, update certificates etc.

Head nodes…

- Most complex to translate, as most services.

- New things: memcached (just worked)

- Still really complex: xrootd

  - (ATLAS and CMS configs are both as complex as the DPM itself!)

- C7 issues - mostly systemd translation.

Hiccups:

- lcgdm-mkgridmap issues

  - Our release was v library release dependant. (not a DPM problem)

- fetch-crls

  - trigger this independently to ensure everything synced for later parts of config

Pool nodes…

- Pretty straightforward.

  - xrootd services much simpler, for a start.

- We plan this to be even simpler when we move to zfs.

- Annoyances: certificates still need to be in multiple places (/etc/grid-security + ./dpm/)

So why don't people switch?

- Established expertise.

- Not enough time.

- Reliability concerns.

- "Dislike of puppet"

- No "killer apps" in newer releases?

A brief note on 1.9.x

- Install by Marcus @ Edinburgh on test system

  - (Issues at Glasgow last week prevented us from having time to properly look at our own test system)

  - Reports "no major problems"

  - Simply upgrade all packages, restart services.

comments from those with
more 1.9.x experience?