

HEPiX Configuration Management WG

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Agenda

- Background of working group
- How does puppet module development and distribution work externally?
- How are we approaching module distribution & development?
- Status of development, common areas of interest, community

HEPiX working group

- Formed to share information, experiences, and where possible code/effort
- Intention is to *not* try to replace or gate the wider puppet community, but to concentrate on where we can add value
- Mailing list with 55 members
- Video calls when agenda merits

pre-existing repositories

- github.com/cernops
 - not just puppet modules - used to interact with upstream too
 - fts, bdii, vosupport, fetchcrl, creamce, cvmfs, voms etc
- github.com/hep-puppet
 - modules developed by multiple UK sites
 - arc_ce, htcondor, torque, dirac etc

puppet module development

- Standard puppet modules can be submitted to forge.puppetlabs.com
- Currently 2.3K modules indexed on the forge
- Searchable, integration with “puppet module” command, metadata, integration with travis (CI)
- forge is an index, normally points to github
- development, issue tracking etc usually handled on github

Search · fts

Found 1 module matching 'fts'

Relevancy | [Latest release](#) | [Most Downloads](#)

Filters [clear](#)

Operating System

- Any -

Puppet Version

- Any -

Puppet Enterprise Version

- Any -

Puppet Enterprise Supported Modules only

Apply Filters



CERNOps/fts

Manages FTS Servers

1 downloads

Version 0.0.5 released May 12, 2014 | 1 downloads of this version

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Note: Modules that do not have information about compatibility

if it ain't broke...

- Working group decided:
 - The index for modules is the puppet forge
 - Github for module development and issue tracking
 - Create and share modules
 - Fork, patch and create PRs
 - Raise issues when things don't work

successes with open development model

- A number of modules are on the forge
 - fts, fetchcrl, cvmfs, bdii, vomms
- Some directly from middleware providers
 - lcgdm, dmlite, xrootd, gridftp
- Some coordination of development effort for new modules (not always HEP specific)
- Good activity on github issue trackers

issues with open development model

- Open development takes getting used to and confidence
- Perceived barriers to:
 - share code - slow delivery if writing for public audience
 - contributing on github if feel skill isn't same level
 - add to forge - there are some hoops, and there are of course same anxieties about level of completeness required
- Where does new starter look for modules?

other areas of discussion

- Secrets handling
 - feature missing for many sites
 - some tools used already (wallet at FNAL), and some development happening at sites (DESY/CERN)
 - watching efforts, but tends to be site specific
- YAIM
 - WG cannot take over YAIM function, can help coordinate access to modules

middleware configuration

- What options do we have for products where YAIM is currently used for configuration?
- Intermediate step, is possible to combine puppet & YAIM
 - YAIM will disappear, so not a long term option
- Modules have been written on as-needed basis
- Most products for small site already covered by existing modules
- Next steps: gap analysis for missing products

community

- Mailing list working well for solving common (& related) problems
 - ruby versions on SLC, experiences with ENCs etc
- Collaboration on disseminating knowledge
 - GridKA school of computing has puppet course which will have involvement of CERN & DESY to produce content & teach

conclusions, open questions

- Open question is “where do I go to find a list of modules”
 - Sites who feel something crucial is missing should also say so!
- Issue for puppet users different to (eg) quattor - far bigger suite of existing modules for most tasks
- Often the problems that produce most work are not HEP or grid specific
- “Where do I put my developments” is both a technical and psychological question

Questions?