



Puppet Experiences

Experiences from providing puppet configuration templates
for the formerly YAIM-configured EMI component DPM

EGI technical forum fall 2013



IT-SDC : Support for Distributed Computing

Background



- We are responsible for DPM/LFC
- Multi-Host software
- Links with other products
globus gridftp, xrootd, rfio, apache, mysql, fetchcrl, edg-
mkgridmap, ca-policy-egi-core, ...
- Configured with YAIM
- Now YAIM support is over ...

Possibilities

- Scripting style:
 - Continue with YAIM
 - Write own config tools
- Configuration management tools:
 - Puppet
 - Chef

Reasons for using puppet labs

- Large community
- Active support and development
- Configuration templates for common components
apache, mysql, ...

- CERN agile infrastructure project
 - OpenStack Cloud w/ puppet-managed VMs
 - => Everything is puppet

Obvious differences

YAIM

- Configuration only
- Configuration all local
- Only EMI components
- Bash
- You can do anything you want

Puppet

- Install and configuration
- Puppetmaster serves
- Everything
- Puppet DSL or ruby
- Adhere to puppet conventions

Yaim to Puppet conversion

- Functions → Modules
- site-info.def → Manifest

- Our modules:
dmlite, fetchcrl, gridftp, lcgdm, xrootd
- Also used:
afs, bdii, ceph, firewall, hadoop,
hostcertificate, kerberos, mysql, stdlib

Distribution w/ puppetforge

- Developer at 10am

puppet module build dmlite

<upload lcgdm-dmlite-0.0.1.tar.gz>

- Sysadmin at 10:15am

puppet module install dmlite



Thank you!
Questions?

