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@EGI_eInfra

Coordination of Infrastructure Management

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Challenges

- Middleware can be really tricky to configure
- To deliver new services without new human resources
- Respond to continuous evolution and security updates
- Rapid technological changes
- Many solutions for configuration management

Several options available

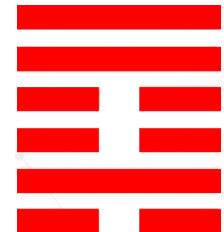
- By hand (the worst practice)
- With YAIM (historical tool, but unmaintained)
- Using an infrastructure as code tool (Puppet, Ansible, Quattor, ...)
- At higher level with Simple Framework

Making a choice is not easy

- Some middleware already provide its own recipes for specific tool (i.e. DPM with Puppet)
- No central / reference repository for sharing or providing recipes
- Documentation may not be up to date
- Site administrators are mostly not objective with regard to their configuration management software

Key points

- First release in 2003 for configuring grid software
- For RedHat and derivatives
- Based on the PAN language, centralised repos on Github
- Highly reproducible configuration
- But difficult to get started (small community, outdated documentation, ...)



<https://www.quattor.org>

Key points

- Since 2012, now owned by RedHat
- Very large community
- Simple and lightweight
- Based on the use of playbook (reusable modules)
- Agent-less architecture (based on the use of SSH)
- <https://galaxy.ansible.com/>



ANSIBLE

Glasgow

- <https://github.com/uki-scotgrid-glasgow/ansible/tree/master/playbooks>


CSC

- <https://github.com/CSCfi/ansible-role-bdii>
- <https://github.com/CSCfi/ansible-role-arc-frontend>

Lancaster University

- <https://github.com/lancsgrid/>

Agenda

	Introduction to session <i>Room: http://go.egi.eu/zoom4</i>	<i>Jerome Pansanel</i> 09:45 - 09:55
10:00	Configuration management with Puppet at PIC <i>Room: http://go.egi.eu/zoom4</i>	<i>Bruno Rodriguez</i>  09:55 - 10:05
	Configuration management made Simple <i>Room: http://go.egi.eu/zoom4</i>	<i>Maarten Litmaath et al.</i>  10:05 - 10:15
	Automation at EGI <i>Room: http://go.egi.eu/zoom4</i>	<i>Vincenzo Spinoso</i> 10:15 - 10:35
11:00	Coordination of infrastructure management <i>Room: http://go.egi.eu/zoom4</i>	<i>Bruno Rodriguez et al.</i> 10:35 - 11:00