

ESGF Installation Working Team

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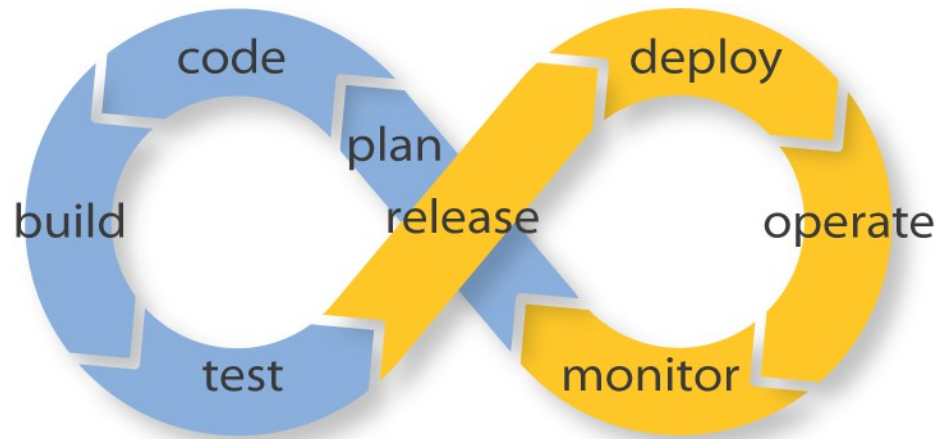
1. IWT Missions and Challenges

2. ESGF Releases in 2014

3. Achievements in 2014

4. Proposed roadmap for 2015

1. IWT Missions and Challenges



Missions

- ✓ Release management
- ✓ Build, test and validate
- ✓ Provide installation tools
- ✓ Secure deployments
- ✓ Administrators training and support

Challenges

- Automated builds and tests
- Easier installation
- **Node set up in less than one hour**

1. IWT Missions and Challenges

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1. ESGF Releases in 2014

1.8.0 by Prashanth	<ul style="list-style-type: none">- Apache in front of Tomcat- Git and Curl RPMization
1.7.2 by Prashanth	<ul style="list-style-type: none">- Targeted search query substitution to prevent unauthorized credentials retrieval- IP ranges authentication feature
1.7.1 by Nicolas	<ul style="list-style-type: none">- ESGF distribution mirrors implementation- get_fastest_mirror function implementation
1.7.0 by Nicolas	<ul style="list-style-type: none">- First release by IWT- ESGF build process fixed- New artifacts publication ant targets

1. IWT Missions and Challenges

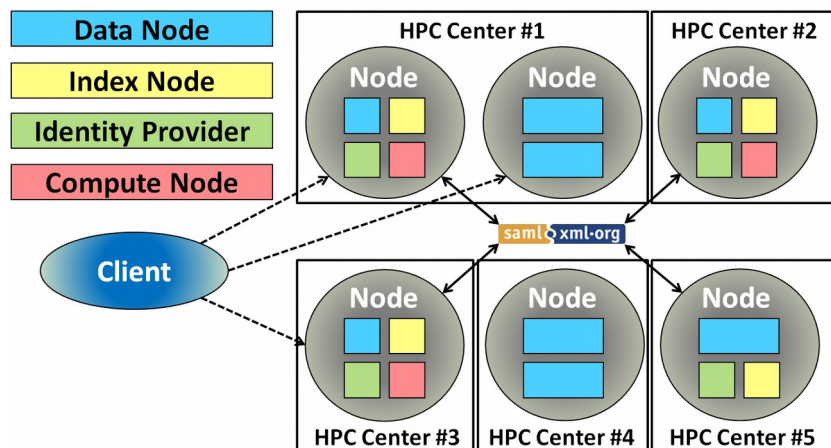
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ESGF Test Federation

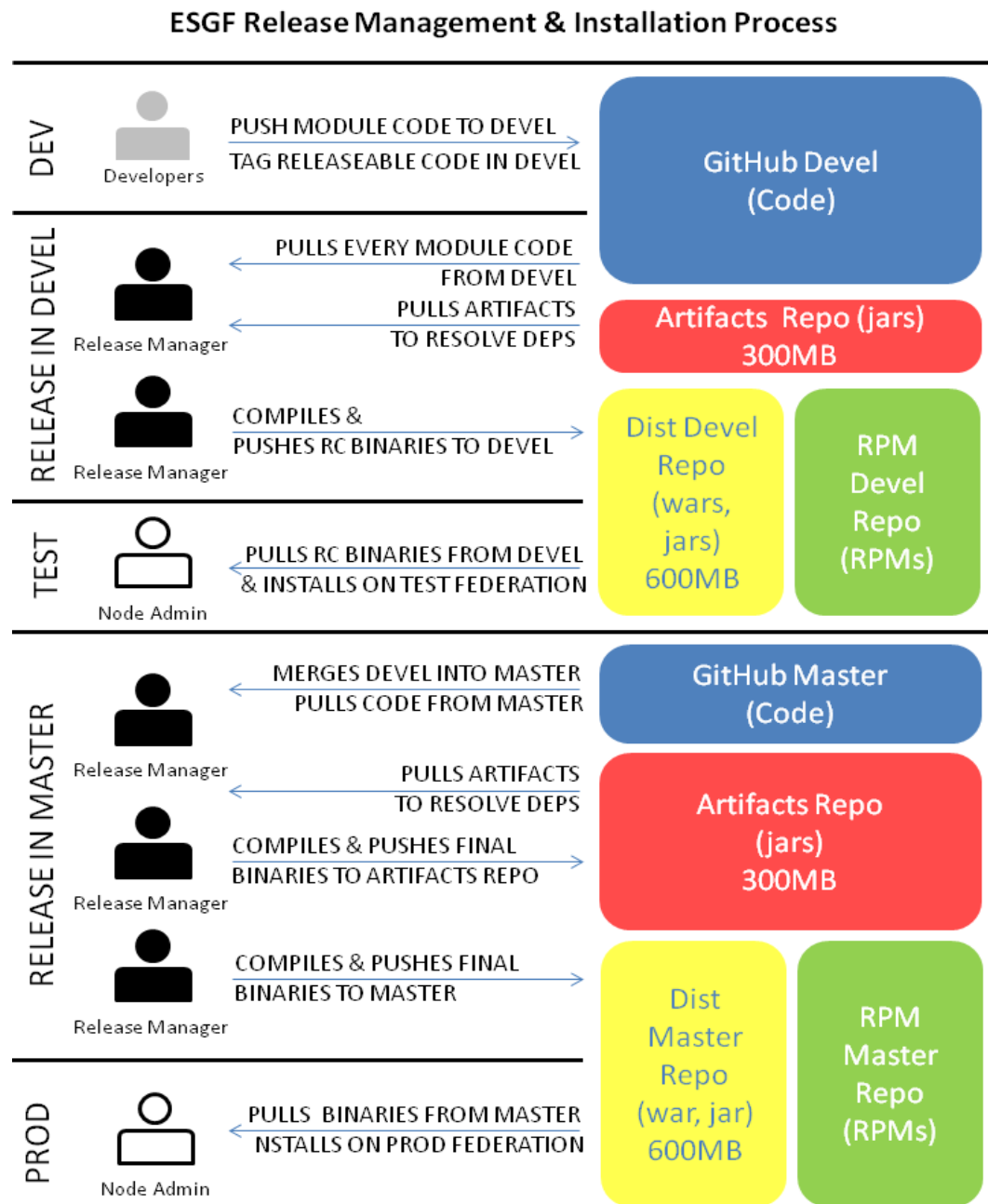


ESGF Test Suite

- ✓ Integration tests
 - ✓ Non-regression tests
 - ✓ Post-installation tests
-
- Python Nose - Test framework
 - Python Requests - HTTP support
 - Python Subprocess - System execution
 - Python Selenium - Browser simulation
 - Python Multiprocessing - Parallelisation



3. Achievements in 2014



3. Achievements in 2014

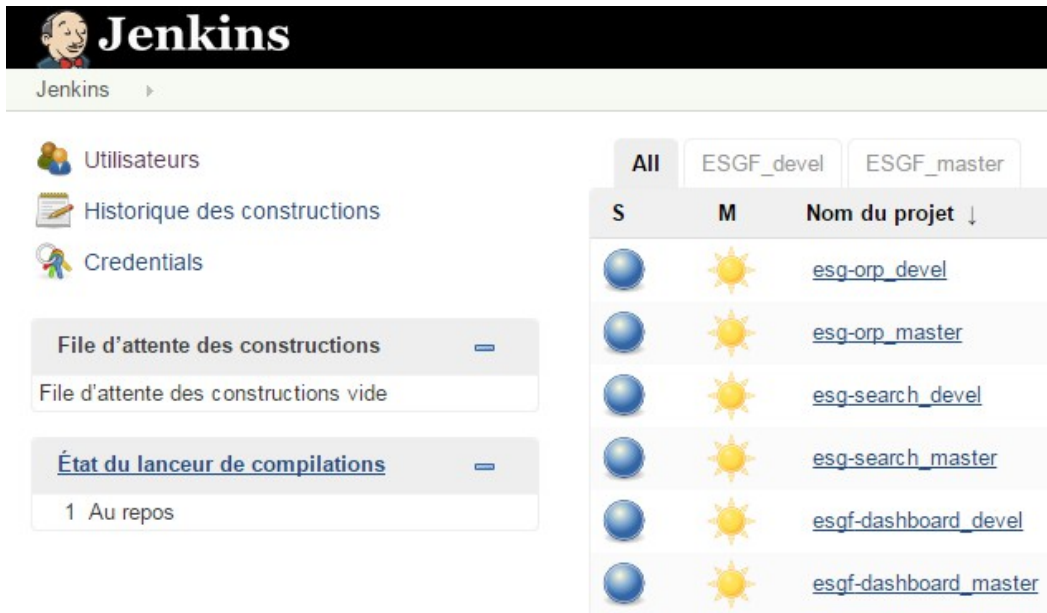
ESGF Distribution Mirrors



- 3 Mirrors (FR, UK, USA)
- Rsync replication
- `get_fastest_mirror` implementation in the installer

3. Achievements in 2014

ESGF Continuous Integration



Jenkins

Utilisateurs

Historique des constructions

Credentials

File d'attente des constructions

File d'attente des constructions vide

État du lanceur de compilations

1 Au repos

All	ESGF_devel	ESGF_master
S	M	Nom du projet ↓
		esg-orp_devel
		esg-orp_master
		esg-search_devel
		esg-search_master
		esgf-dashboard_devel
		esgf-dashboard_master

- <http://esgf-build.ipsl.upmc.fr>
- Dedicated build environment
- Devel and Master pipelines
- Daily build
- Github Webhooks

3. Achievements in 2014

New Nodes

UC, Spain



IITM, India



PNL, USA



INPE, Brazil



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1. Proposed roadmap for 2015

ESGF 1.9.0	<ul style="list-style-type: none">- Globus RPMization- CoG integration
esgf-build v2	<ul style="list-style-type: none">- Continuous deployment- Continuous testing
esgf-test-suite v2	<ul style="list-style-type: none">- Federated search tests- Publication tests
esgf-installer v2	<ul style="list-style-type: none">- Better security components setup integration- From bash to python

Thank You

ESGF Installation Working Team

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<https://www.github.com/ESGF/esgf-installer/wiki>