Automating Performance Testing over the Cloud with *CLIF* and *ProActive Workflows & Scheduling*





Bruno Dillenseger - Orange Labs

Brian Amedro, Denis Caromel, Laurent Pellegrino – ActiveEon SAS

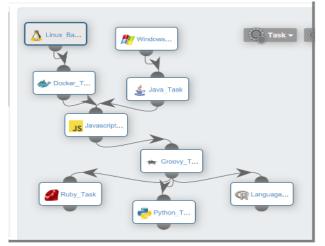




Member since ... its creation



Products: ProActive











Locations



London,



Paris,

BioTech, Health Finance, Media, IoT...

Lyon, France



Portal ▼ Admin ▼ Help ▼ | 🔊 Submit job ধ Logout pa1750 Jobs list pa1750 pa1750 pa1750 173 pa1750 172 474



Scheduling & **Orchestration**

Deployment &

Resource

Management





Engineering



Some Customers





orange



















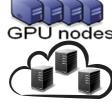
























Fully automated performance testing

What for?

- Performance testing in Continuous Integration
- Continuous testing of User Quality of Experience

With which computing resources?

- preferably on-demand resources allocation for cost issues
- from the cloud (dedicated or shared)
- from the team workstations (community cloud)

With which features?

- Workload generation and performance measurements
- Resources management
- Test deployment orchestration
- Testing, reporting and alerting automation



An OW2-powered solution

OW2 technologies

- CLIF
 - Workload generation and performance measurements
- ProActive Workflows & Sheduling
 - Computing resources management
 - Test deployment orchestration





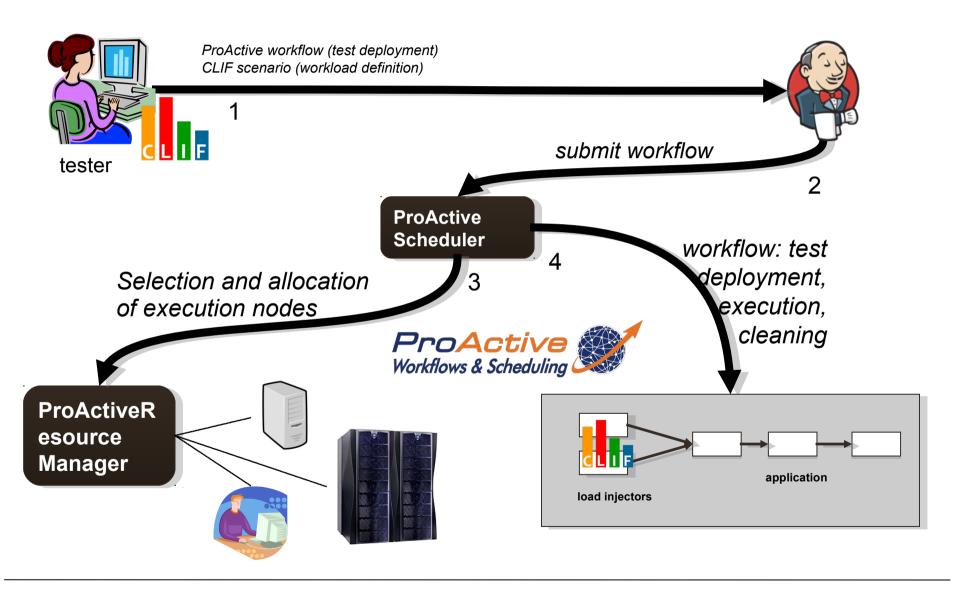
Jenkins

- Testing, reporting and alerting automation
- Performance report including trends with CLIF plug-in



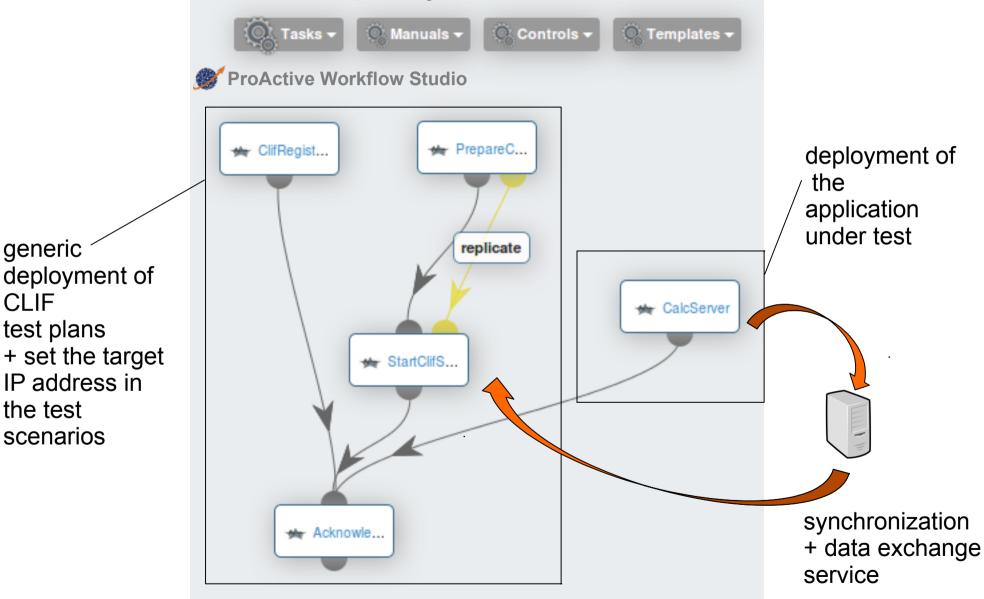


Overall process





Test deployment workflow





It's time for conclusion...

Benefits

- integrated solution for automated performance testing and monitoring
 - computing resources management
 - deployment-configuration-execution workflow
- write configuration scripts with your favorite languages
 - Ruby, Python, Goovy, javascript, bash...
- while benefitting from a user-friendly workflow editor

Limitation and achieved solution

 workflow tasks need to synchronize and exchange configuration data => we enriched the Scheduler with a synchronization service (https://github.com/ow2-proactive/)

References

- CLIF http://clif.ow2.org, ProActive http://proactive.ow2.org
- Jenkins http://jenkins.io

