Société du Canal de Provence
Hybrid Cloud with OW2 ProActive

Or how to get up to a x144 speedup?

Brian Amedro, CTO
OW2Con’13
November 13th 2013, Paris
Société du Canal de Provence
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Or how to get up to a x144 speedup?

- Control processes
- Optimize execution
- Save on infrastructure

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Société du Canal de Provence

- A mission serving domestic, agriculture, industries and collectivities
- 90 M€ annual revenu
- 85 dams and local reservoirs
- 83 pumping stations
- Compensate, regulate and develop the access to water
ProActive: An innovative solution

Build

Run

Deploy
ProActive: An innovative solution

Workflow designer studio

- A full IDE to create your deployment workflows
- Build tasks, constraints, dependencies, flow controls, ...
- Execute and monitor your workflow
ProActive: An innovative solution

Workflows & Load Orchestrator

- Simple and powerful workflow model
- Customizable orchestration & scheduling policies
- A cloud approach with fault tolerance

RESTful API
ProActive: An innovative solution

Resource management

- Easy deployment and aggregation
- Extensible: Grids, Clouds, Schedulers, Desktops
- Advanced and customizable usage policies

Native Schedulers

vmware

cloudstack

Windows Azure
Collaboration with SCP

- IRMA application simulate and compute settings for water distribution networks
- Embarrassingly parallel application
- Deploy on SCP internal resources including burst capabilities on external resources
Solution

IRMA

- Workflow construction
- Submission and management
- Scheduling policies
- Data transfers
- Placement policies

SCP

Windows Azure
Solution

- Workflow construction
- Submission and management
- Scheduling policies
- Data transfers
- Placement policies

✓ Time saving: 3 days to 30 min ➔ x744
✓ Optimized execution with distributed and orchestrated execution
✓ Save on infrastructure
Thanks!