HPC by OVH.COM
Making Simulation Access Easier
Who are we?

- 1st * web hoster in Europe, 3rd the world
- 1999 OVH creation
- 2.1 Tbps of network capacity
- 12 datacenters
- 16 International branches
- 150,000 servers
- 8 years of R&D
- 2012-09 Oxalya buyout
- >100 deployed clusters
- 2013-06 HPCSpot opening

*: Netcraft November 2012
A complete range of solutions

**HPCSpot.**

Based on HPCDrive

From **8 cents per core.hour**
on a shared cluster

From **400 € per dedicated server** per month

SaaS OpenSource solvers and visualisation software

**HPCDrive.**

Web interface for numerical simulation

Cluster management

Job submission

Visualization sessions

Focused on ease of use

**HPC Services.**

Consulting

Hardware

Systems integration

Training

Support
Simulation as a Service / Dedicated clusters
Where is it coming from?

- Previous Oxalya software
HPCSpot. building blocks

• Master nodes / visualisation nodes
  – 2 x E5-2620, 64GB RAM, 2 x Quadro K4000, 3TB HDD

• Compute nodes
  – 2 x E5-2670, 64GB RAM, 500GB HDD

• Low latency interconnect
  – Low-latency 10GbE with RoCE on all servers
  – QDR infiniband as an option

• 10GbE connexion to the OVH network
HPCSpot. – Simulation as a Service

• Shared cluster

• Prepackaged solvers and visualization software

• Prepaid points

• Pay only for the time you use
HPCSpot. – Dedicated Clusters

• Your own HPCSpot

• Install any solver or software

• Partitioned networks

• Add (or remove) nodes as you need them
HPCSpot. Access

• SFTP
  – Data transfers
• SSH
  – Job submission
• Web
  – Job submission
  – Visualization session reservation
• Remote display
  – Visualization session without installation
### HPCSpot – Prices

#### Shared cluster

<table>
<thead>
<tr>
<th>Service Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computing node</td>
<td>1.28 € per hour (i.e. 0.08 € per core)</td>
</tr>
<tr>
<td>Visualisation VM 1 core, 4GB RAM, no graphic card</td>
<td>0.10 € per hour</td>
</tr>
<tr>
<td>Visualisation VM 4 cores, 15GB RAM, Quadro K4000</td>
<td>0.90 € per hour</td>
</tr>
<tr>
<td>Visualisation VM 12 cores, 60GB RAM, Quadro K4000</td>
<td>2.00 € per hour</td>
</tr>
</tbody>
</table>

#### Dedicated cluster

<table>
<thead>
<tr>
<th>Service Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master node with 2 Quadro K4000</td>
<td>400 € per month</td>
</tr>
<tr>
<td>Compute node</td>
<td>400 € per month</td>
</tr>
</tbody>
</table>
Thanks!

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