VisuPortal®

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Oxalya

- Oxalya started in 2005 as a HPC integrator
  - Offices in Paris, France
  - Systems built for energy, governmental research, aerospace, biotechnologies, …
- Customer feedback: HPC systems are too complex to manage and use. This defined Oxalya' aim:

  Making Simulation Access Easier

  - Still providing integration and consultancy services
  - But now offers HPC management and usage software:

VirtualNodes Oxalya Software

For mutualized HPC datacenters

VisuPortal Oxalya Software

For visualization resources

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- Numerical simulation has evolved…
  - More computing power and larger data sets
  - Solvers coupling
  - New visualization servers
- … creating new possibilities/needs
  - High performance displays such as CAVEs
  - Real time monitoring of simulation projects
  - Collaborative tools to shorten the decision making process

- VisuPortal® is our solution for interactive simulation

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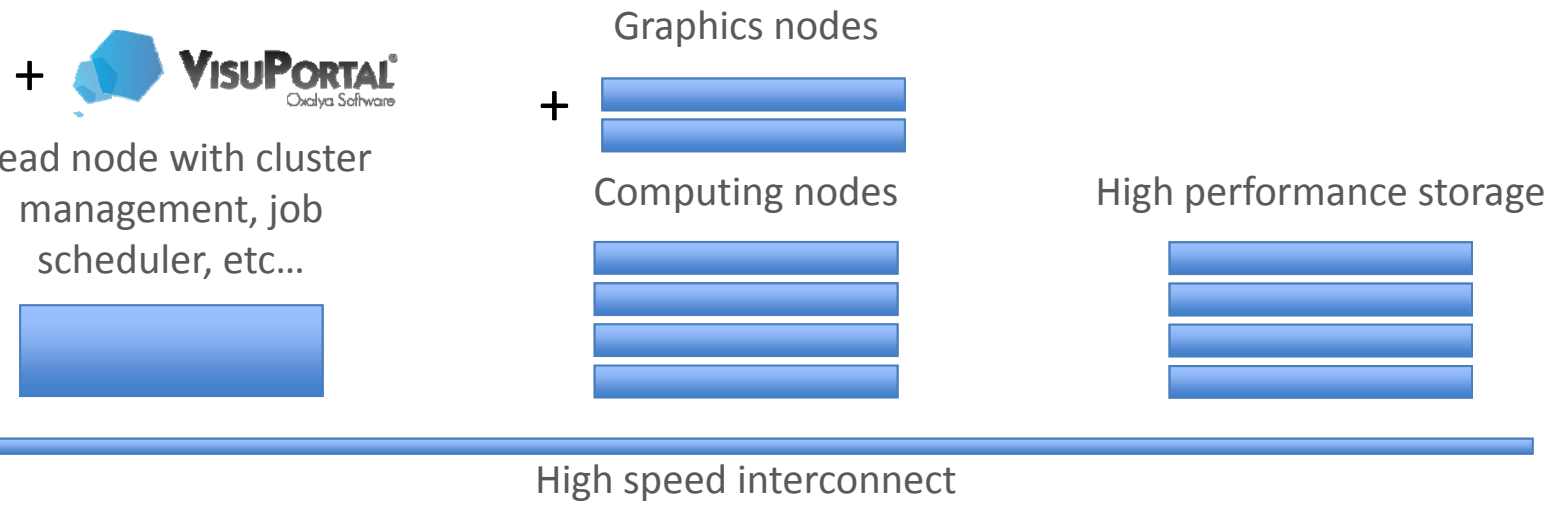
From a computing cluster to a simulation cluster



- ✔ Uses the same LDAP authentication system as the cluster
- ✔ Synchronizes itself with your job scheduler
  Torque/MAUI, PBS Pro, SLURM, etc.
- ✔ Integrates any remote desktop system
  HP RGS, TurboVNC/VirtualGL, etc.
- ✔ Enables using both type of nodes for both computing and visualization

All of this remotely, from any place !

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VisuPortal® makes the access your numerical simulation chain easier through high performance visualization

Integrate your usual software: pre/post-processing, workflow, interactive computing, …

ParaView EnSight

VisIT modeFRONTIER

ANSYS Fluent

HyperWorks

…

Manage your visualization resources

Laptops, Thin clients, Wall, Cave, QuadHD,..

Optimize the ROI of your infrastructures

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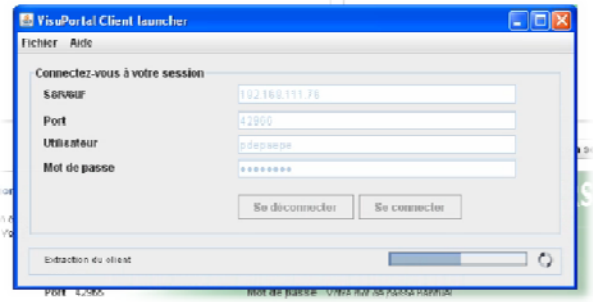
VisuPortal® is meant for users…

VisuPortal® helps researchers to focus on their “real” work

- Integrated online help with videos
- Web reservation wizard
- Automatic deployment of the remote display client without installation



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…and administrators

- Easy users management
  - Visualization profiles,
  - Quotas
- Resource management
  - Computing and graphics nodes
  - License tokens
  - Exportable statistics and logs
- Fine grained application integration
  - Application launch the visualization node but also computing or rendering nodes
  - License management
  - Desktop configuration
  - Data management,
  - Etc.

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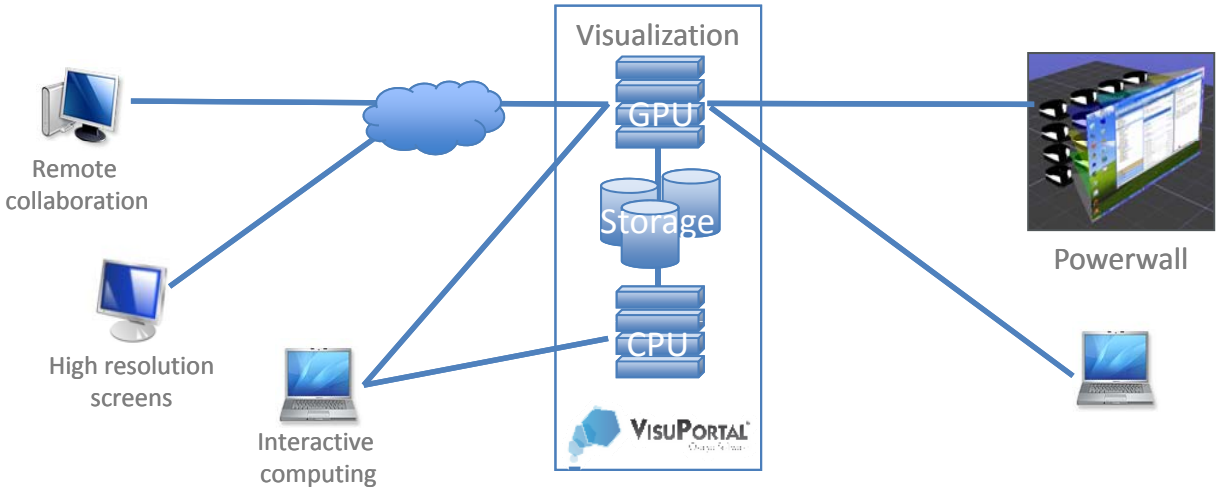
- EDF Research & Development



66 visualization nodes,
20 compute nodes

24 mega pixels powerwall
16 videoprojectors

Collaborative scientific visualization

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Try it!

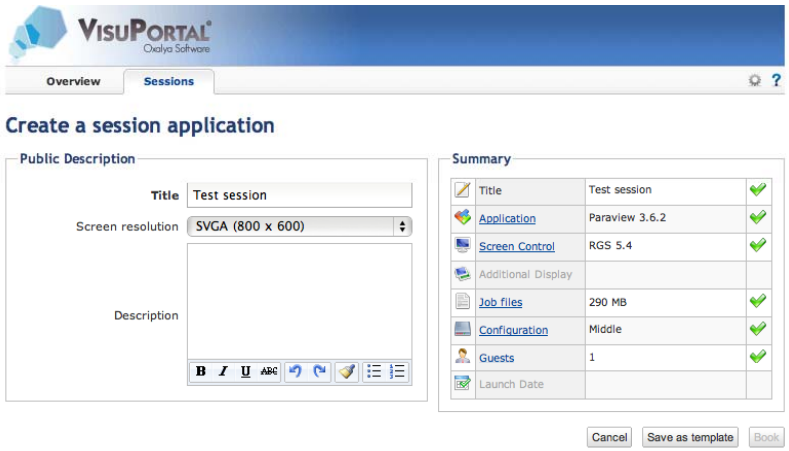
- A demo is worth a thousand words
  - Come and see us at our booth
  - You all received a free trial pass in your Teratec welcome bag
  - See demos integrating software from:

esi get it right®

ENGIN SOFT

SAMTECH

Kitware



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Contacts

Benoît VAUTRIN

COO

benoit.vautrin@oxalya.com

Tel: +33 1 49 58 45 70

Gsm: +33 6 65 65 28 40

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