

EURO/CFD Selects Bright Computing for High Performance Infrastructure Management Solution

CASE STUDY



“Our new HPC infrastructure gives us a more resilient platform that scales to support new projects from customers that seek to use our HPC on demand capability, and helps us win new market share.”

— Karim Loueslati
CEO of EURO/CFD

When EURO/CFD was founded in 2005, the company understood that numerical calculations helped reduce costs and development lifecycles for industrial projects, and ensured product quality. However, the heavy costs of technical engineers with CFD skills, HPC hardware, and software licenses, were often a barrier to numerical calculations.

EURO/CFD was established to provide industrial corporations with an option to outsource numerical studies. The company rapidly became an innovative SME by bringing together CFD experts and developing customised solutions for customers.

About EURO/CFD

With 1,500 cores, [EURO/CFD](#) has a large HPC environment for a company of its size. [transtec](#), who has provided systems integration and professional services to EURO/CFD for many years, recognised it would be an advantage for EURO/CFD to transition from a Microsoft-based HPC solution, to a Linux-based HPC solution - to improve resiliency, stability, and to allow the HPC environment to be more scalable. This supported EURO/CFD's strategy to place greater emphasis on its HPC infrastructure, not just to support its own demanding computations, but also to offer HPC on demand to its large network of customers, who wish to outsource their numerical calculations.

EURO/CFD has a focus on customer service and end user satisfaction, so a key requirement was that the solution needed to be simple; both in terms of a quick and hassle-free deployment, as well as being easy to operate on a day-to-day basis, so that the IT team could invest their time serving end customers.

EURO/CFD chose to deploy Bright technology as part of its pioneering new HPC infrastructure, with transtec as the delivery partner.

CASE STUDY

EURO/CFD Industrial Simulations



“Coupling Bright technology with the skill and experience of transtec, the solution was deployed professionally and efficiently.””

— Karim Loueslati
CEO of EURO/CFD

The Bright Choice

By selecting Bright’s HPC infrastructure management technology, EURO/CFD benefitted immediately from Bright Cluster Manager’s advanced configuration and automation, which enabled the installation and deployment of the new Linux environment to be rapid and pain free.

A key factor for EURO/CFD choosing Bright was the intuitive GUI which has made monitoring the entire cluster from a single pane of glass both easy and comprehensive. EURO/CFD also had a requirement for a parallel file system; something that Bright could support. And, for Karim Loueslati, CEO of EURO/CFD, “the most attractive functionality from Bright was the possibility to manage multiple images and adapt each image to each solution.”

EURO/CFD’s high value HPC solution has been designed by transtec, and [comprises](#) Supermicro hardware, a very large Infiniband network, and [NICE](#) software solution for remote visualization. Bright provides a strong and solid foundation to underpin the solution, to provision, operate, monitor, manage, and scale the platform from a central user interface. According to Loueslati, it’s Bright’s flexibility, professionalism and efficiency that made it a winning solution for EURO/CFD.

Benefits

Karim Loueslati believes that by using Bright, EURO/CFD has greatly reduced the time that the IT team was investing in administering the HPC cluster, adding; “We estimate that we have reduced human intervention by 30%”.

With all areas of the HPC cluster growing at pace, the next step for Loueslati’s team is to propose a HPC Cloud-on-Demand solution to their customers, by taking the power of Bright Cluster Manager to the next level.