DELLTechnologies

Bright Computing

Bright Computing and Dell Technologies: Accelerating HPC and AI

VALUE PROPOSITION

With the software, solutions and services from Bright Computing and Dell Technologies, your organization has what it needs to:

- **Accelerate time to value with a simplified HPC design, configuration and ordering process**

- **Automatically set up, configure and provision a fully functioning cluster from bare metal in minutes**

- **Increase uptime with software that monitors the HPC cluster and alerts your administrators to problems before they impact users — or automatically takes corrective action**

- **Perform end-to-end cluster administration, including complete monitoring, health checking and automated updates, from a single pane of glass**

- **Deploy engineering-validated solutions that offer a single point of contact for services and support.**
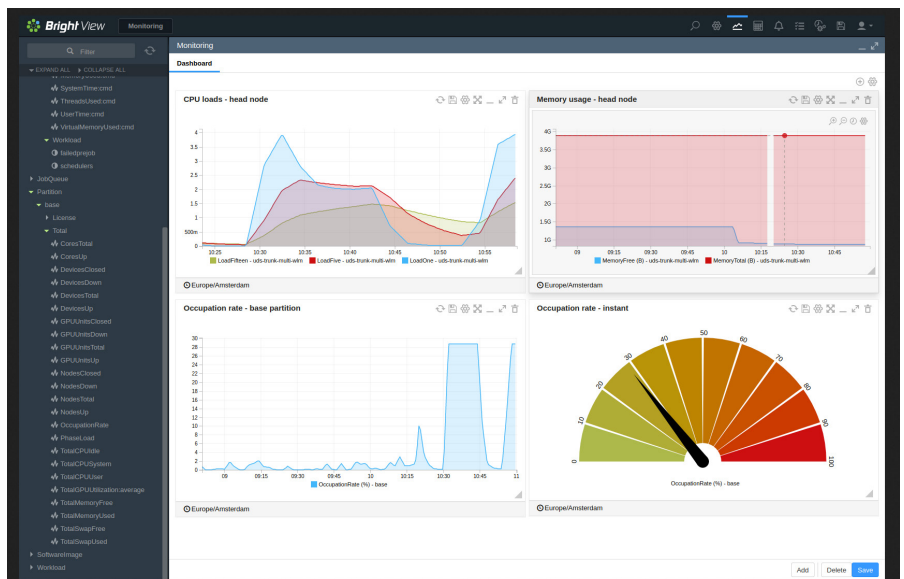
PARTNER OVERVIEW

Bright Computing provides software that automates the process of building and managing Linux clusters in enterprise data centers, the cloud and at the edge. The company's flagship product, Bright Cluster Manager for HPC, is designed to remove complexity from HPC clusters, while giving organizations the flexibility to deploy complete clusters over bare metal and manage them reliably across a hybrid environment.

Bright was launched in 2002, when a group of technologists came together with a vision of developing software that would eliminate the complexity of building and managing clusters. But they didn't want to just create software, they wanted to create the best software in the market. With that goal in mind, they spent more than a decade building, refining and perfecting Bright Cluster Manager.

A HISTORY OF COLLABORATION

Bright Computing and Dell Technologies share a long history of providing HPC solutions to mutual customers around the world. In 2011, Dell added Bright software to its HPC product portfolio. At that time, Bright Cluster Manager was already being used to manage more than 50 Dell HPC installations worldwide, including three TOP500 supercomputing systems.

The partnership has grown over the years, as organizations increasingly depend on products from Dell Technologies and Bright to build HPC solutions for life sciences, manufacturing, research and more. Today, Dell Technologies uses Bright's cluster management software across its entire portfolio of Dell EMC Ready Solutions for HPC.

Bright Cluster Manager provides a single-pane-of-glass view into the entire HPC environment.

SOLUTION OVERVIEW

With Bright Cluster Manager for HPC on Dell EMC Ready Solutions, your organization can quickly and easily install fully integrated HPC systems and monitor and manage them across their lifecycles — so you can spend more time focused on innovation and less time on operations.

Integrated solutions from Dell Technologies and Bright Computing offer compelling benefits to any organization deploying solutions for HPC, AI or data analytics.

- Bright enables Dell Technologies customers to deploy, provision, monitor, manage and scale HPC, big data, OpenStack and deep learning environments, all from a single pane of glass.
- Bright empowers Dell Technologies customers to allocate compute resources dynamically across their environments as required, as well as bursting into the cloud.
- Software from Bright is intuitive to learn and designed for easy out-of-the-box installation.
- Bright easily absorbs the complexity of HPC systems while helping to ensure the scalability of HPC clusters.

CUSTOMER REFERENCE

Bright and Dell Technologies make it faster and easier for organizations to begin using machine learning within their businesses, while automatically scaling their machine learning programs as they become more sophisticated. One such customer is Fayetteville State University (FSU) in North Carolina.

FSU built an image recognition system using a Dell EMC Ready Solution for HPC with Bright Computing. The system associates textual data, compares the inputs and identifies anomalies without human intervention. This research is relevant to defense and security applications.

For more of the story on the research conducted at FSU, see the CIO.com article "Why HPC Matters: Making the World a Safer Place."

CONTACT US

To learn more about how Dell Technologies and Bright Computing can help you gain greater performance and value from your HPC and AI systems, contact your Dell Technologies or Bright representative or explore the features of Dell EMC Ready Solutions for HPC and Bright Cluster Manager for HPC.