Press Release

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CloudyCluster Offers Mobile Cloud-Based HPC

CloudyCluster is Omnibond's innovative solution for creating and managing HPC and Big Data Clusters in a customer's Amazon Web Services (AWS) account. It provides a simple, web-based interface for mobile, tablet and desktop devices to create and manage scalable HPC and Big Data Clusters in AWS. This brings on-demand HPC to a new level of flexibility and portability.

ISC-HPC 2015, Frankfurt Germany—Today Omnibond announced CloudyCluster, a web-based interface to create and manage scalable HPC and Big Data Clusters in Amazon Web Services.

CloudyCluster makes High Performance Computing available to anyone. Users can set up and run an HPC cluster from mobile or desktop devices with a simple wizard setup interface. With 24/7/365 AWS availability, HPC is now accessible without the need to reserve data center resources ahead of time. When a Big Data Cluster is essential for a job, CloudyCluster seamlessly connects to an AWS account and provides needed resources, with users paying only for the run time and data storage they need.

CloudyCluster's intuitive interface guides the setup process with a series of simple questions. Users easily spin up an advanced computing infrastructure complete with a variety of HPC and Big Data applications, allowing them to compute, pause, resume, and delete when done. The CloudyCluster interface supports creating on-demand compute groups and controlling the instance type and the scheduler, with Amazon's DynamoDB supporting the on-demand infrastructure. Available schedulers include Condor and Torque with more to be added in the future.

All instances in a compute group are based on the same type. Users control compute group parameters, with a variety of options for AWS instance types and images.

CloudyCluster also supports collaboration, providing ability to add collaborators with custom access permissions and share Google Drive folders among collaboration group members.

"HPC is no longer restricted to those with direct access to large computational resources," said Boyd Wilson, CEO of Omnibond. "Democratizing HPC resources makes it easier to access advanced technical computing with CloudyCluster and Amazon Web Services. We give you the ability to easily get your cluster up and running on AWS, submit your jobs and get results when you need them, paying only for the time you use."

"CloudyCluster provides a scalable cluster with preinstalled, common HPC software, based on Amazon's Elastic Compute Cloud (EC2)," explained Richard Gillette, CloudyCluster developer. "Our web-based SSH capability means you can use your mobile phone for computing on the go."

CloudyCluster commences a new era of mobile High Performance Computing, available to anyone with Internet access. Its simple setup, multiple configuration options and easy job submission capabilities make the CloudyCluster platform a vital tool in a world computing environment with ever-expanding data sets and tight deadlines. CloudyCluster streamlines the process of obtaining meaningful information from data.

CloudyCluster is currently in beta and will be generally available this summer.

About CloudyCluster
CloudyCluster is Omnibond's solution for creating and managing HPC and Big Data Clusters in an Amazon Web Services (AWS) account. It provides a simple, web-based interface for mobile, tablet and desktop devices to create and manage scalable HPC and Big Data Clusters in AWS, bringing on-demand HPC to a new level of flexibility and portability. For more information or to participate in CloudyCluster Beta testing, visit CloudyCluster.com.

About Omnibond
Omnibond is a technology development company currently focused on software engineering and support for networked Identity/Access Management, Cloud-based HPC, HPC Parallel Virtual File Systems, and Computer Vision technologies. Our newest forays include CloudyCluster and commercial-grade product services for OrangeFS, the next generation of PVFS for high-performance computing. For more information visit enterprise.omnibond.com.

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