



Press Release

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CloudyCluster 1.1 on RHEL Released with Enhanced Features

Omnibond today released CloudyCluster 1.1 with expanded functionality including application support for WRF and CESM, Globus integration, and CCQ certificate based sign-on.

Anderson, SC—Omnibond today announced that CloudyCluster 1.1 on RedHat Enterprise Linux is available in Amazon Web Services Marketplace (AWS Marketplace). CloudyCluster 1.1 brings several new features, with application support for Community Earth System Model (CESM) and the Weather Research and Forecasting Model (WRF), Globus integration, support for Torque 6 as well as automatic use of placement groups and enhanced networking for faster computing.

CloudyCluster provides a web-based interface to create and manage scalable HPC and Big Data clusters on AWS. New features, available in version 1.1, bring additional value to climate modeling and weather forecasting requirements by providing enhanced application support for the CESM and the WRF. Now it's even easier to spin up an HPC cluster on the cloud for climate computer simulations and meteorological research. The newest release also provides full Globus integration, simplifying the process of uploading and transferring data among your HPC cluster and various computers. Globus file sharing also makes it easier for cross-continent collaboration on large-scale HPC projects.

The CloudyCluster 1.1 release supports automatic use of placement groups, which offers the benefit of low latency Ethernet connectivity between instances. Enhanced Networking is another improvement to CloudyCluster, allowing for higher performance, reduced latency and reduced jitter. Now, all clusters set up with CloudyCluster will automatically include enhanced networking for supported instance types.

Another improvement in the new release is ccqsub, a meta-scheduler or a wrapper, which provides a single interface for common schedulers such as Torque and in the future: SGE, Condor, and SLURM. It gives the schedulers autoscaling capability on the AWS Cloud, allowing users to let CloudyCluster select and deploy the AWS resources best suited for the needs of their jobs. Additional features of the release include certificate-based sign-on, support for the Torque 6 scheduler, Shibboleth and the Internet2 InCommon Federation.

Already a game-changer in the HPC field, CloudyCluster developers continue to enhance and strengthen its features to make HPC and Big Data clusters easier to deploy, run and manage from desktop and mobile devices. Large-scale computing is no longer restricted to those with data center access, and it is available to everyone on AWS Marketplace via the CloudyCluster interface.

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, visit CloudyCluster.com.

About Omnibond

Omnibond is a technology development company currently focused on software engineering and support for Cloud-based HPC with CloudyCluster, HPC Parallel Virtual File Systems with OrangeFS, Computer Vision technologies with TrafficVision and Identity/Access Management with NetIQ Identity Manager Drivers. For more information, visit Omnibond.com.

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