

Moab Access Portal®

Dynamic. Scalable. Portable.

Overview

Moab Access Portal is an end-user job-submission and management tool that integrates with Moab Workload Manager®. It provides universally accessible job submission to the Moab Workload Manager and underlying resource managers from any location, eliminating the need to install software on the client computer.

Moab Access Portal empowers end users with an intuitive graphical interface and tools to track and manage workload, decreasing burdens on administrators.

Moab manages many of the largest clusters and grids in the world. Moab technologies are used broadly across Fortune 500 companies; in fact, Moab is licensed on more Top500 compute resources than any competitor's solution. Cluster Resources is a globally trusted ISV, and Moab prices can be one-half to one-fourth the price of other tools on the market today.

Empower End Users

- ▶ Specify personal job priorities, ensuring that the most-critical jobs are completed first
- ▶ Set job dependencies and workflow support for non-time-critical or low-priority jobs
- ▶ Quickly review job status, node assignments, wall-clock usage, and other job-specific information through graphical job lists
- ▶ Submit needed input with interactive job settings

Benefits

- ▶ **Simplifies end-user job submission** using intuitive Web-based submission forms and reusable templates
- ▶ **Enables users to view and manage jobs** with personalized job lists, status information, and push-button commands (cancel, re-queue, suspend, checkpoint, resume, etc.)
- ▶ **Guarantees availability** of resources for time-critical jobs by exposing personal reservations
- ▶ **Empowers end users with actionable information** such as estimated resource availability, start-time estimates, status of accessible servers, and system workload stats
- ▶ **Helps end users self-manage usage behaviors based on automatic reporting** of workload credits and other user-specific statistics, including utilization and average queue time
- ▶ **Retains long-term investments** by easily modifying the portal with application-specific job-submission forms

System Requirements

- ▶ **Moab Workload Manager® 5.0 or higher**
- ▶ **Operating Systems**—Linux, Windows, Mac OS-X, and others that can run Java 1.5-compatible virtual machines
- ▶ **Other**—Web browser must support cookies and Javascript 1.2 or higher; DK 1.4 or higher compatible servlet engine (e.g., Tomcat or Jetty with Apache, WebSphere, BEA WebLogic)

Simplify End-User Job Submission

- ▶ Submit and manage jobs through an intuitive graphical interface, eliminating extensive training and the need to memorize complex command syntax
- ▶ Create basic or advanced jobs with easy-to-use forms that can utilize templates to speed job submission and reduce training
- ▶ Request the specific nodes, features, capabilities, or programs required for a job
- ▶ Use job dependencies to ensure that certain jobs don't start until dependent jobs are complete
- ▶ Upload files from personal desktops to the cluster's remote file system

Enable Users to View and Manage Jobs

- ▶ Quickly review job status using job lists that show estimated times to completion, tell which nodes jobs are running on, and detail other important information
- ▶ Sort and search job lists to identify jobs with a specific status, start time, or association
- ▶ Manage job status with push-button controls that start, suspend, cancel, modify, resume, re-queue, checkpoint, and hold jobs
- ▶ Control whether users see the entire cluster or only their own jobs, reservations, and allotted nodes
- ▶ No client installation required on end-user desktops

Guarantee Availability with Personal Reservations

- ▶ Create personal reservations to ensure resource availability for time-critical projects
- ▶ View charts of both user reservations and reservations for the entire cluster
- ▶ Reserve specific nodes or generically request nodes with desired attributes
- ▶ Turn the ability to create reservations on and off

Empower End Users with Actionable Information

- ▶ See visual charts showing node utilization that detail node status and features, such as operating system, speed, and architecture
- ▶ Track node and workload problems with simple error messages
- ▶ Know job timelines before jobs start with the estimated-start-time tracking tool and the workload timeline
- ▶ Receive e-mail notifications upon job execution, completion, or failure (when TORQUE* is used as resource manager)

Assist End Users in Self-Managing Usage Behaviors Based on Automatic Reporting

- ▶ Allow end users to clearly see and self-manage usage behaviors using a credit-tracking system (administrators can associate compute resources with dollar amounts or credits for cost sharing and self-monitoring)
- ▶ See the percentage of resources users consume or historical response times with visual graphs
- ▶ View the priority and relative cost of submitting at various QoS levels to choose the option that gives the best response time compared to charge rate
- ▶ Limit both user access to and consumption of compute resources, or any other job attribute, based on user credentials

Try Moab for 30 days with full technical support—*absolutely free*. For more information, please contact us.

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