

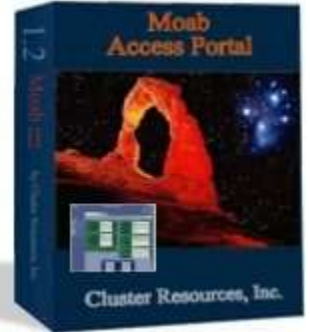


Cluster Resources, Inc.™

MOAB ACCESS PORTAL™ 1.2

Overview

Moab Access Portal™ is an end-user job submission and management tool that works with Moab Workload Manager™. This product provides universally accessible job submission to Moab Workload Manager and associated resource managers from any location without the need to install software on the client computer. Moab Access Portal empowers end-users with Web-based job submission, an intuitive graphical interface and the other tools they need to track and manage their own workload, thus decreasing burdens on administrators.



Key Capabilities

- **Simplify end-user job submission** using intuitive Web-based job submission forms and wizards
- **Enable users to view and manage jobs** with personalized job lists, job status information and push button commands (e.g. Cancel, Re-queue, Suspend, Checkpoint, Resume, etc.)
- **Guarantee availability** of resources to time-critical jobs using personal reservations
- **Empower end-users with actionable information** such as estimated resource availability, start-time estimates based on job size and duration, status of nodes the user has access to, etc.
- **Assist End-users to self-manage usage behaviors based on automatic reporting** of available credits remaining, and other user-specific statistics such as utilization and average queue time
- **Retain your long-term investments** by using this easily modifiable Internet portal for end-user activities

System Requirements:

- **Operating Systems:** *Linux, Mac OS X, Windows, AIX, OSF/Tru-64, Solaris, HP-UX, IRIX, FreeBSD & other UNIX platforms*
- **Resource Managers:** *TORQUE Resource Manager, OpenPBS, PBS Pro (Others will be added shortly)*
- **Other Requirements:** *JDK 1.4 or higher compatible servlet engine (e.g. Tomcat or Jetty with Apache, WebSphere 5.1, BEA WebLogic); Web browsers must support cookies and Java Script 1.2 or higher*

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Business Benefits

Simplify End-user Job Submission



- Submit and manage jobs through an intuitive graphical interface, eliminating the need to memorize complex command syntax
- Create jobs with easy to use forms and wizards including the ability to load local and remote scripts, create scripts at the time of submission, as well as many other capabilities
- Request specific nodes with needed features, capabilities or programs required for running a job
- Use job dependency to ensure that specified jobs do not start until dependent jobs complete

Enable Users to View and Manage Jobs



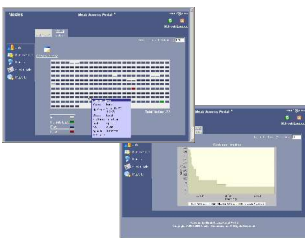
- Quickly review job status using job lists that show estimated times until completion, tell which nodes jobs are running on and detail other important characteristics
- Sort and search job lists to identify jobs with specific features such as status, start time or credentials
- Manage job status with push button controls that start, suspend, cancel, modify, resume, re-queue, checkpoint and hold jobs
- Administrators control whether users see only their own jobs, reservations and allotted nodes, or the entire cluster

Guarantee Availability with Personal Reservations



- Create personal reservations to ensure resource availability for time critical projects
- View charts of both user's reservations and the reservations for the entire cluster
- Reserve specific nodes and or generically request nodes with desired attributes
- Administrators can turn on and off the ability to create reservations using the properties settings

Empower End-users with Actionable Information



- See visual charts showing node utilization that detail node status, and node features, such as operating system, speed and architecture
- Track node and workload problems with intelligible error messages
- Know how long it will take before jobs start with the estimated start time tracking tool and the workload timeline
- Receive e-mail notifications upon job execution, completion or failure

Assist End-users to Self-manage 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 purposes)
- See the percentage of resources users consume or historical response times with visual graphs
- View the priority and relative cost of submitting to different groups and quality of services to be able to choose the option that gives the best response time compared to charge rate.
- Administrators can limit both users' access to and consumption of compute resources, or any other job attribute, based on a user's credentials