

# Platform™

Powering High Performance



## Scali Manage™

Cluster Management and Monitoring System

### Overview

Scali Manage tackles the full range of challenges presented by total cluster lifecycle management. It helps you provision, manage, and maintain clusters, grids of clusters, and server farms in commercial, research, and academic environments. With Scali Manage, you can automate the installation, configuration, updating, and monitoring of the most complex multi-vendor environments through a single, simple user interface. The result, a fully-integrated and proven computing environment, reduces the costs and increases the reliability and performance of Linux clusters.

### Importance of lifecycle management – Protecting investments

As clusters become an integral part of the way organizations do business, managing cluster lifecycles is becoming more difficult. All the facets of cluster lifecycle management, including initial deployment, change management, health monitoring, fault handling, root cause analysis, and resource optimization need to be addressed.

Scali Manage automates and manages these activities through a single enterprise view for homogeneous and multi-vendor hardware platforms. It extends and optimizes the significant investments that organizations put into their clusters. As additional clusters are deployed, Scali Manage's single point of management enables all clusters to be administered as an entity, providing optimization across the organization.

### Initial deployment – Reduced time to production

During initial cluster deployments, Scali Manage is used to automate the process of starting from "bare metal" and building an entire cluster across a range of certified and non-certified hardware platforms. It features an easy to use wizard that walks you through the key aspects of initial provision-based deployment, and automates time consuming integration steps. Once an initial machine is configured, Scali Manage enables an administrator to manually modify this machine's image as well as capture the "image" to be used for image-based or diskless/stateless provisioning. With intelligent provision-based, image-based, or diskless/stateless methods, administrators can quickly provision additional machines, reducing time to production, and letting you get to work on your cluster quickly.





## Total Platform Solution

– Fastest, most scalable on the market

Platform offers a total solution for high performance computing: Scali Manage for cluster provisioning, monitoring and management; Platform LSF for batch workload management; and Symphony for HPC SOA application enablement and management. Platform also offers consulting, training and support to ensure your success. Our total solution provides the industry's fastest, most functional and scalable products for high performance clustering.

### Ongoing cluster changes – Rapid updates

Clusters change over time. Interconnects are added, storage is expanded, operating systems are updated, and new nodes or architectures are deployed. Scali Manage enables you to interact with your cluster as a single entity through a single point of management, not as a collection of individual machines, so you can quickly update and modify your cluster. With support for intelligent provisioning, which includes package-based installations, image-based and diskless/stateless installations you can deploy multiple systems quickly. With a simple graphical user interface linked to robust wizards or, through the command line interface, Scali Manage provides fast, accurate updates across all cluster nodes.

### Health monitoring – Anticipate and plan

Scali Manage has a full suite of monitoring and alarming capabilities that quickly notify you of any out-of-threshold conditions. Through the interface, you can anticipate potential issues and plan updates and upgrades appropriately. With its single point of management, Scali Manage provides aggregated actionable data that highlights potential issues.

### Fault handling and root cause analysis

– Quick restoration of operations

In addition to monitoring the environment as a whole, Scali Manage provides access to detailed levels of information. This simplifies identifying problems and optimizing performance, by streamlining the drill-down from aggregated data to individual data points. With faster root cause analysis, clusters are restored to full operation quickly.

### Resource optimization – Understand your cluster

Scali Manage includes a resource usage database that captures information about the use of your cluster. By maintaining an ongoing history of how the cluster has been used and how it performed, IT managers gain a clear understanding of the workload and success of their cluster. From this data, you can determine appropriate ways to increase capacity and performance based on the actual work performed by the cluster.

### High availability option for critical production environments

Organizations are making clusters part of their production environments, and high availability is becoming essential for these mission critical installations. The Scali Manage/HA™ extension offers advanced software and services. These services deliver highly available installations through continuous access to the management console, configuration states, and images fault tolerance for the cluster head nodes, as well as high availability for Linux Standards Base compliant services.

# Platform™

Platform Computing is a pioneer and the global leader in High Performance Computing (HPC) infrastructure software. The company delivers integrated software solutions that enable organizations to improve time-to-results and reduce computing costs. Many of the world's largest companies rely on Platform for workload management and cluster and grid management. Platform has over 2,000 global customers and strategic relationships with Dell™, HP, IBM®, Intel®, Microsoft®, Red Hat® and SAS®, along with the industry's broadest support for HPC applications. Building on 15 years of market leadership, Platform continues to define the HPC market. Visit [www.platform.com](http://www.platform.com)

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