



IBM Platform Cluster Manager V3.2 Standard Edition allows you to manage complex clusters as a single system

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At a glance

IBM® Platform Cluster Manager V3.2 Standard Edition offers:

- OS provisioning and maintenance
- Software components deployment and management
- Customizable cluster monitoring
- Historical cluster usage and performance reporting
- Management node failover
- Web interface

Overview

IBM Platform Cluster Manager V3.2 Standard Edition is easy to use, yet powerful cluster management software for technical computing clusters. It allows system administrators to manage a complex cluster as a single system by automating deployment of the operating system and software components, as well as provisioning and maintenance. It provides centralized monitoring with alerts and customizable alert actions.

Platform Cluster Manager Standard Edition has the following unique capabilities:

- It provides a kits framework to simplify software deployment and maintenance in technical computing environments. This framework is used within an x86 ecosystem to deploy software, for example, InfiniBand drivers or GPU runtime software.
- A robust and scalable monitoring system that is very easy to extend and customize. The monitoring agent uses the same technology as IBM Platform LSF® and IBM Platform Symphony® .
- An easy-to-use web portal that allows the administrator to access and manage the cluster from almost anywhere.
- Reports can be generated on the statistics of the cluster usage and performance.
- It offers management node fail-over to increase the robustness of the cluster management functions in a typical cluster computing environment using commodity hardware.

IBM Platform Cluster Manager Standard Edition delivers the following benefits:

- Faster time to cluster readiness

- Reduced infrastructure and management costs
- Improved administrator productivity
- Increased cluster uptime

IBM Platform Cluster Manager Standard Edition runs on the latest generation of IBM System x® iDataPlex®, IBM PureSystems™, and other rack-based and blade servers. It is also supported on industry standard non-IBM x86 hardware. By prequalifying and certifying these platforms at scale, IBM can help you take the risk out of deploying and managing the mission-critical compute clusters. IBM Platform Cluster Manager Standard Edition also supports generic x86 servers.

Key prerequisites

- A cluster computing environment comprised of two or more servers.
- A head node that has at least two network interfaces: One that connects to a public or corporate network and one that is connected privately to all the other nodes.
- A supported operating system preinstalled on the head node.
- Access to the operating system media or image file used for installation of the operating system on all nodes in the cluster.
- Non-head nodes that can be set to PXE boot.

See the [Hardware requirements](#) and [Software requirements](#) sections for additional information.

Planned availability date

October 19, 2012

Description

IBM Platform Cluster Manager Standard Edition

Easy-to-use, comprehensive cluster management solution

IBM Platform Cluster Manager Standard Edition makes it easy to deploy and manage a technical computing cluster. It provides a robust set of cluster management capabilities, including cluster provisioning, cluster monitoring, and node management. All the functions required to operate a cluster are installed at once and are tightly integrated. The next-generation web portal provides a single point of access into the cluster, making it easy to manage a complex cluster as a single system.

Flexible and powerful

IBM Platform Cluster Manager Standard Edition allows administrators to define provisioning templates for ease of software package management on cluster nodes. Adding or removing software components can be done without rebooting the operating system. The kits framework allows third-party users to package multiple software components with the configuration, then deploy them into the cluster nodes. The management node can be easily configured to failover. The cluster monitoring data is stored in a relational database for reporting and analysis.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Program number

Program number	VRM	Program name
5725-G88	3.2.0	Platform Cluster Manager

Offering Information

Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

Also, visit the Passport Advantage® website

<http://www.ibm.com/software/passportadvantage>

Publications

The following publications and documentation are shipped with the product and available on the web:

- Installing and Managing the IBM Platform Cluster Manager Web Portal Kit
- Installing and Managing the NVIDIA CUDA kit
- Installing and Managing the IBM Platform Cluster Manager Base Kit
- Installing and Managing the OS OFED Kit
- Installing and Managing the IBM Platform Cluster Manager Kit
- Web Portal Customization Guide
- Kit Builder Guide
- Getting Started with IBM Platform Cluster Manager (Administrators)
- Administering IBM Platform Cluster Manager
- Installing IBM Platform Cluster Manager
- Release Notes for IBM Platform Cluster Manager 3.2

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Technical information

Specified operating environment

Hardware requirements

The IBM Platform Cluster Manager Standard Edition requires the following hardware:

- Minimum requirements for installer node/head node:
 - 2 GB of physical memory (RAM) for Installer Node/Head Node

- 80 GB free disk space
- Two Ethernet interfaces: one connects to corporate/public network and one (provision) connects to all compute nodes
- DVD drive
- Minimum requirements for compute node for package-based installation
 - 1 GB of physical memory (RAM) for compute node
 - 40 GB free disk space
 - One Ethernet interface
- Minimum requirements for image-based installation
 - 3 GB of physical memory (RAM)
 - 40 GB free disk space
 - One Ethernet interface
- Minimum requirements for diskless installation
 - 4 GB of physical memory (RAM)
 - One Ethernet interface
- Minimum requirements for compute node without using Platform Cluster Manager provisioning
 - 512 MB of physical memory (RAM)
 - 10 GB of free disk space
 - One Ethernet interface

Software requirements

One of the following operating systems is required:

- Red Hat Enterprise Linux™ 6.2 x86 64 bit
- Red Hat Enterprise 5.7 x86 64 bit (non head node)
- SUSE Linux Enterprise Server 11 SP1 x86 64 bit
- CentOS 6.2 x86 64 bit (non head node)

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM , such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Companion products

Typical use of this product is in conjunction with HPC workload managers such as IBM Platform LSF , IBM Platform Symphony , Oracle Grid Engine, PBS, Maui/Moab, and Hadoop.

Compatibility

Platform Cluster Manager V3.2 Standard Edition is compatible with most cluster technologies. Compatibility is limited by the operating systems supported.

Limitations

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<http://www.ibm.com/software/sla/sladb.nsf>

Performance considerations

The performance of this product depends upon many factors, including the number of nodes in the cluster, the number of users querying the system, and the frequency of queries. As these increase, the scheduling cycle and user response time will increase.

Planning information

You must provide at least the minimum hardware and software environments in which the IBM Platform Cluster Manager Standard Edition will operate. It is recommended to assign a systems administrator who has responsibility for planning, installation, maintaining, and administering the program.

While the installation procedures for Platform Cluster Manager are easy, fast, and have been tested carefully, as with any installation, it is prudent to ensure that backups exist and you prepare for the installation in advance.

Customer responsibilities

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Installability

IBM Platform Cluster Manager 3.2 Standard Edition requires the head node to have a fresh install of Red Hat Enterprise Linux 6.2 x86 64 bit in basic server mode or SUSE Linux Enterprise Server 11 SP1 x85 64 bit.

Packaging

For software products in this announcement, physical media and hardcopy documentation are not included in the deliverable package. The software code is delivered only through electronic download.

Platform Cluster Manager V3.2 Standard Edition is distributed on multiple DVD media options and available for electronic download with multiple eAssemblies. Included are:

- IBM International Program License Agreement (L-ACHG-8WYTSN) in multiple languages
- Release notes
- Installation or User's Guide
- Required files

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

Platform Cluster Manager Standard Edition uses the security and auditability features of the system in which it is installed. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Software Services

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Product group: IBM Platform Computing
Product Identifier Description (PID)
IBM Platform Cluster Manager 5725G88

Product category: Other Software

Charge metric

Program name	Part number or PID number	Charge metric
IBM Platform Cluster Manager	5725-G88	Managed server

Server

Server is a unit of measure by which the program can be licensed. A *server* is a physical computer that is comprised of processing units, memory, and input/output capabilities and that executes requested procedures, commands, or applications for one or more users or client devices. Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (for example, a blade or a rack-mounted device) that has the required components is considered itself a separate server. For the purpose of server-based licensing, licensee must obtain entitlements for each server that is made available to the program, regardless of the

number of processor cores and partitions in the server or the number of copies of the program on the server.

Notes :

- Some programs may require licenses for the program and what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain entitlements for this program sufficient to cover the servers managed by the program.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the program directly, licensee must obtain entitlements for this program sufficient to cover the servers managed by program.

Passport Advantage

Program name/Description	Part number
IBM Cluster Manager Standard Edition v3.2 Multiplatform English Media Pack	AJ00KEN
IBM PLAT CLUSTER MGR STD MANAGED SVR LIC + SW S&S 12 MO	D0UX7LL
IBM PLAT CLUSTER MGR STD MANAGED SVR SW S&S REINSTATE 12MO	D0UX8LL
IBM PLAT CLUSTER MGR STD MANAGED SVR ANNUAL SW S&S RNWL	E0F1HLL
IBM PLAT CLUS MGR STD MANAGED SVR INITL FT LIC+S&S 12 MO	D0V6DLL
IBM PLAT CLUS MGR STD MANAGED SVR SUBSQ FT LIC+S&S 12 MO	E0F50LL

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License Information form number

L-ACHG-8WYTSN

The program's License Information will be available for review on the IBM Software License Agreement website

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Limited warranty applies

Yes

Limited warranty

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If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

Yes, and through the Passport Advantage website at

<http://www.ibm.com/software/passportadvantage>

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IBM Operational Support Services -- SoftwareXcel

No

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

Statement of good security practices

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