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IBM Platform HPC
Information

Length: 4.0 Days
Ref: H080G-X
Delivery method: Classroom
Price: AUD

Overview

This course teaches IBM Platform HPC version 4.2.
The course is a workshop-focused, hands-on class designed to give system administrators the knowledge and confidence required to implement and maintain IBM Platform HPC in their HPC environment. You will gain a solid and fundamental understanding of the product's features, including how the product is implemented, configured, and administered. The workshops provide hands-on experience with the material presented during class.

Public

The target audience for this basic course are System administrators who will implement the HPC cluster and who will be responsible for managing the environment.

Prerequisites

You should have:

- At least some Linux/Unix command-line experience

No previous experience with IBM Platform products is assumed**or** required.

Objective

- Define HPC cluster concepts and terminology
- Define IBM Platform HPC concepts and terminology
- List Platform HPC components
- Install Platform HPC
- Manage the Platform HPC cluster
- Provision compute nodes
- Describe the Platform HPC architecture
- Describe Platform LSF concepts
- Be able to submit and manage LSF jobs
- Describe Platform MPI concepts

- Detail on submitting and managing MPI jobs
- Explain how to integrate applications
- Detail the monitoring capabilities of Platform HPC
- Describe how to enable High Availability
- Describe how to troubleshoot and obtain support
- Describe the process for building and deploying Platform HPC kits
- Describe how to implement custom networking configuration

Topics

Introduction to high performance computing

IBM Platform HPC terminology

Introduction to Platform HPC

Installing Platform HPC

Cluster resource management

Provisioning and updating cluster nodes

Advanced cluster resource management

Platform HPC backend

Platform LSF: Workload Scheduler

Platform MPI

Application integration

Monitoring the cluster

Platform HPC high availability

Support and troubleshooting

Build and deploy Platform HPC kits

Custom networking configurations