

excellent

Advanced Cluster Administration using Rocks®

HPC Training Solutions

You Will Learn

- Cluster monitoring of critical performance metrics
- Validating performance using HPL (High Performance LINPAC)
- Node customization and troubleshooting tips
- Custom appliance creation to organize cluster functions
- Building Rocks Rolls to save and share your customizations

Course Duration

- 2 Days

Prerequisites

All attendees should have a good working knowledge of Linux administration, and have completed the Basic Cluster Administration with Rocks training.

*Rocks is software developed by the Rocks Cluster Group at the San Diego Supercomputer Center at the University of California, San Diego and its contributors.

Advanced Cluster Administration using Rocks* is a 2 day instructor led class that introduces cluster administrators to advanced cluster management concepts. This course will enable you to maximize cluster performance and customize your cluster to meet your organizations computing needs.

Course Overview

Day 1

Module 1: Cluster Monitoring with Ganglia

- Understand Ganglia architecture
- Understand Ganglia features and capabilities
- Customize Ganglia monitors

Lab: Validate & Customize Ganglia

Module 2: Basic HPL and Cluster Performance

- Understand HPL
- Learn cluster validation with HPL

Lab: Run HPL

Module 3: Intermediate Node Configuration

- Understand basic node customization
- Understand post installation customization

Lab: Customize Nodes

Day 2

Module 4: Custom Appliances

- Understand appliance creation
- Understand node types and groups

Lab: Configure Rocks cluster specific files

- Be able to configure Rocks to deploy an appliance per design plan
- Be able to customize an appliance on cluster manager for deployment
- Be able to configure basic appliance features for deployment

Module 5: Rocks Rolls

- Understand Rocks Rolls
- Understand Roll Build Process

Lab: Build Custom Roll

- Build Roll
- Deploy and Test Roll

Pricing and Contact

Single Student Fee – Advanced Course	US \$2,900.00
Basic + Advanced Course Combined Fee	US \$4,900.00

Discounts are available for HiEd/Federal/multiple students. For more information or to register, contact hpc@x-iss.com or call 713-862-9200.



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