

IBM Spectrum Scale Advanced for Linux

Duration: 3 Days **Course Code: H006G** **Delivery Method: Virtual Learning**

Overview:

This course is intended for IT professionals tasked with administering a Spectrum Scale system. It includes information on installing, configuring and monitoring a Spectrum Scale cluster. This course replaces AN82G from Power brand.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

This advanced course is for IT professionals tasked with administering a Spectrum Scale system.

Objectives:

- Migrate a GPFS 3.5 cluster to IBM Spectrum Scale 4.2
- Migrate an IBM Spectrum Scale 4.1 cluster to 4.2
- Describe and set up GUI interface
- Execute performance collection infrastructure
- Describe the IBM Spectrum Scale multi-cluster functionality, how to remote mount file systems, and the security configuration in a multi-cluster environment
- Describe, install, and configure Clustered Network File System (cNFS)
- Define, deploy, debug, and log Cluster Export Service (CES)
- Describe multi-protocol support
- Describe the Server Message Block (SMB) Protocol family and clients; solve and monitor SMB recovery scenarios; troubleshoot SMB
- Manage Ganesha default configuration change/list
- Manage exports in CES Network File System (NFS) and debug CES NFS
- Describe home and cache features
- List the various Active File Management (AFM) modes; create and manage an AFM relationship
- Define and introduce asynchronous disaster recovery (DR)
- List the recovery point objectives (RPOs) and failover options
- Describe the Spectrum Scale Disaster Recovery Architecture
- Describe the Linear Tape File System (LTFS) Enterprise Edition (EE) Introduction
- Describe the GPFS policy driven storage management
- Describe the HSM archival solution with LTFS EE
- Define how to create a file placement optimization (FPO) pool
- Describe using Spectrum Scale with Hadoop
- Identify the scenarios in which GPFS-FPO is applicable
- Define Share Nothing Architecture
- Describe the design and architecture of the Call Home feature and describe its functionality
- List the usage/advanced usage of the Call Home feature
- Describe GPFS Performance parameters and GPFS tuning considerations
- Monitor a GPFS cluster
- Describe flash cache capabilities
- Move metadata to flash cache

Prerequisites:

You should have taken:

- IBM Spectrum Scale Basic Administration for Linux (H005G)
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Content:

Migrating to IBM Spectrum Scale 4.2	SMB Protocol Support	File Placement Optimizer
Spectrum Scale 4.2 GUI	NFS Support in CES; Ganesha overview/performance	IBM GPFS-FPO and integration with GPFS Hadoop connector
Multi-cluster	Active File Management	IBM Spectrum Scale Call Home
Clustered NFS	AFM-Based Disaster Recovery (DR) and Asynchronous DR	Monitoring and performance tuning
Cluster Export Services for multi-protocol support	Planning LTFS and GPFS environment for data archiving	Flash Cache metadata migration

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK