IBM Storage Scale Fundamentals (Digital version)

Course Number: H010DG-SPVC

Duration: 3 days

Course Description

This IBM Self-Paced Virtual Class (SPVC) includes:
- PDF course guide available to attendee during and after course
- Lab environment where students can work through demonstrations and exercises at their own pace

This course is intended for IT professionals tasked with administering an IBM Storage Scale storage cluster in environments running Linux and AIX nodes. The course includes information on installing, configuring, and monitoring an IBM Storage Scale cluster. Many Storage Scale features are described in lecture materials and then implemented in lab exercises. These features include: Storage management, high availability options, cluster management, and information lifecycle management (ILM) tools.

Upon completion of this course, you will earn an IBM digital badge that recognizes your skills and knowledge in this area.

Skills Gained

- Summarize the key features of IBM Storage Scale
- Describe IBM ESS and Storage Scale RAID
- Install IBM Storage Scale and configure a cluster

- Implement information lifecycle management (ILM)
- Configure IBM Storage Scale high availability features
- Back up critical cluster data

Who Can Benefit

This course is open to all interested learners, regardless of their experience. Typical students include customers, IBM technical personnel, business partner technical personnel, and IT consultants and architects.

Understanding UNIX/Linux, SAN, and storage concepts may be beneficial.

Prerequisites

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Course Details

Outline

WEEK 1:

Unit/Module 1: Introduction and IBM Storage Scale Overview [3 hours]

Topic/Lesson 1: Conventional and Clustered File Systems

Topic/Lesson 2: Introduction to IBM Storage Scale

Topic/Lesson 3: The History of IBM Storage Scale

Topic/Lesson 4: IBM Storage Scale Architecture

Topic/Lesson 5: IBM Storage Scale Cluster Configurations

Topic/Lesson 6: IBM Storage Scale System

Topic/Lesson 7: IBM Storage Scale RAID

Topic/Lesson 8: IBM Storage Scale Erasure Code Edition

Topic/Lesson 9: IBM Storage Scale Architectural Limits

Exercise 1: Cluster node preparation

Quiz

Unit/Module 2: Installation [3 hours]

Topic/Lesson 1: Prepare the nodes and allocate storage

Topic/Lesson 2: Install the Storage Scale software

Topic/Lesson 3: Create the Storage Scale cluster

Topic/Lesson 4: Start Storage Scale and verify the status of all nodes

Topic/Lesson 5: Configure NSDs

Topic/Lesson 6: Create file systems

Exercise 2: Installation and cluster configuration

Quiz

Unit/Module 3: Cluster Management [3 hours]

Topic/Lesson 1: Cluster Configuration Models

Topic/Lesson 2: The Storage Scale Node

Topic/Lesson 3: Protecting Data Integrity

Topic/Lesson 4: Node Roles

Topic/Lesson 5: Cluster Configuration Options

Topic/Lesson 6: NSD Access Methods

Exercise 3: Cluster management and configuration

Quiz

WEEK 2:

Unit/Module 4: Information Lifecycle Management (ILM) [3 hours]

Topic/Lesson 1: Information Lifecycle Management

Topic/Lesson 2: Storage Pools

Topic/Lesson 3: Filesets

Topic/Lesson 4: ILM Policies

Topic/Lesson 5: File System Quotas

Exercise 4: Storage pools, filesets, and policies

Quiz

Unit/Module 5: High Availability and Cluster Data Backups [3 hours]

Topic/Lesson 1: Replication

Topic/Lesson 2: Failure Groups

Topic/Lesson 3: File System Replication

Topic/Lesson 4: Snapshots

Topic/Lesson 5: Data Backup

Exercise 5: Replication and snapshots

Quiz