VNX Unified Storage Performance Workshop

Duration: 5 Days **Course Code: VNXP** **Delivery Method: Virtual Learning**

Overview:

This Expert level course provides a thorough exposure to performance on the VNX Unified Storage platform. This is a workshop-format course, with heavy emphasis on performance analysis student activities and instructor debriefs. Topical areas include the use of Unisphere Analyzer, command outputs from Navisphere Secure CLI and File server_stats, and the analysis of those performance statistics. Other topics include evaluating performance statistics utilizing different workload patterns, RAID and disk types. The performance implications of using VNX Replication Software such as SnapSure, Replicator, VNX Snapshots, SnapView and SAN Copy. Also covered are VNX features including data compression and deduplication, FAST VP, and FAST Cache, among others.

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 course is intended for individuals who are responsible for architecting, managing, optimizing, and troubleshooting VNX Unified storage performance.

Objectives:

- **Upon successful completion of this course, participants should be able to:**
- Determine VNX Unified performance using metrics and workload analysis
- Use Block and File performance tools for analysis and troubleshooting
- Describe the performance implications regarding different drive types and LUN Layout
- Identify AVM performance considerations
- Describe the performance implications of data compression and deduplication, FAST VP and FAST Cache
- Explain the performance impact of using File deduplication, SnapSure, and Replicator
- Identify performance considerations when using SnapView and VNX Snapshots
- Explain the impact in using SAN Copy and MirrorView on an application
- Size and validate a VDI (Virtual Desktop Infrastructure) storage solution for application performance

Prerequisites:

- VNX Block and File configuration, provisioning, and management
- VNX Unified architecture and features
- Basic IP Networking
- Basic understanding of VDI solutions (VMware Horizon View, Citrix XenDesktop, Microsoft VDI)

Content:

The content of this course is designed to support the course objectives.

Performance Overview

- Performance Review
- VNX Cache Considerations

Analysis of Performance Data

- Unisphere Statistics and Secure CLI
- Unisphere Analyzer

Disk Type and LUN Layout Impact on Performance

- Disk Considerations
- LUN Layout and metaLUN Considerations

VNX File System Impact on Performance

- Automatic Volume Management
- Manual Volume Management

Storage Efficiency Features and Performance

- Data Compression Performance Considerations
- Block Deduplication Performance Considerations

FAST Suite Performance Considerations

- FAST Cache and FAST VP Performance

Local Replication Performance Considerations

- VNX SnapSure, Snapshots, and SnapView Performance

Remote Replication Performance Considerations

- VNX Replicator, SAN Copy, and MirrorView Performance

Host Performance Considerations

- Host Performance
- EMC Xtrem Performance

Storage Performance Planning and Sizing for Desktop-as-a-Service

- VDI Performance Overview
- Measuring Virtual Desktop IO

Sizing the Number of VMs per RG/Pool

Further Information:

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

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