Storage Area Networking Fundamentals

Duration: 4 Days Course Code: SN71G

Overview:

The storage area network (SAN) infrastructure facilitates storage consolidation, data sharing, serverclustering, LAN-free and server-less backup across heterogeneous host server platforms. This coursefocuses on the planning and implementation considerations associated with establishing that SANinfrastructure. Functions provided by SAN fabric components, such as Fibre Channel host bus adapters(HBAs), Fibre Channel switches and directors, and SCSI to Fibre Channel protocol converters are discussed,and the interdependencies of these components are examined. Mechanisms to implement resource accesscontrol for data access integrity among heterogeneous hosts in a storage networking environment are alsoexamined.If you are enrolling in a Self Paced Virtual Classroom or Web Based Training course, before you enroll, pleasereview the Self-Paced Virtual Classes and Web-Based Training Classes on our Terms and Conditions page,as well as the system requirements, to ensure that your system meets the minimum requirements for thiscourse.

Target Audience:

This intermediate course is for personnel who are assessing and planning to deploy a storage area network

Objectives:

- Examine Fibre Channel services such as login processes, name server, addressing, loop initialization andarbitration, frame routing, and registered state change notification as they relate to configuring the SANinfrastructure
- Plan for the implementation of SAN interconnect components, such as Fibre Channel HBAs, the IBMTotalStorage SAN switches and directors and the Cisco directors and switches by reviewing their defaultconfigurations and assessing tailoring options
- Plan for the Implementation of resource access control to ensure data integrity by using zoning interfaces inthe IBM TotalStorage SAN switches and directors and the Cisco MDS 9000 directors and switches
- Interpret topology, routing, and trunking data displayed by switch management interfaces for a given fabric
- Describe Converged Enhanced Ethernet
- Explain why Converged Enhanced Ethernet is needed
- Describe the additional capability Converged Enhanced Ethernet provides
- Compare the overhead for SCSI traffic using Fibre Channel over Ethernet, TCP/IP, and fibre
- Describe the basics of Fibre Channel over Ethernet
- Explain the advantages and disadvantages of Fibre channel over Ethernet
- Explain the different terminology used with Fibre Channel over Ethernet
- Describe the challenges associated with data center networking and the need for switch networkconvergence
- Describe the DCN, j-type, b-type, and Cisco switches
- Discuss when one switch solution would be better for a given circumstance

Prerequisites:

You should have completed:

- Introduction to Storage Networking (SN700) or equivalent knowledge base is a must. This course assumesthat you understand basic SAN knowledge.

Content:

1. Day 1

- Unit 1: Evolution of storage area networks
- Unit 2: Fibre Channel

2. Day 2

- Unit 3: Fibre Channel switches and directors: Brocade (b-type)
- Unit 4: Brocade DCFM

3. Day 3

- Exercises

4. Day 4

- Unit 5: Fibre Channel switches and directors: Cisco MDS
- Exercises

5. Day 5

- Unit 6: Converged Enhanced Ethernet
- Unit 7: Fibre Channel over Ethernet
- Unit 8: Data center networking

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

training@globalknowledge.com.eg

www.globalknowledge.com/en-eg/

Global Knowledge, 16 Moustafa Refaat St. Block 1137, Sheraton Buildings, Heliopolis, Cairo