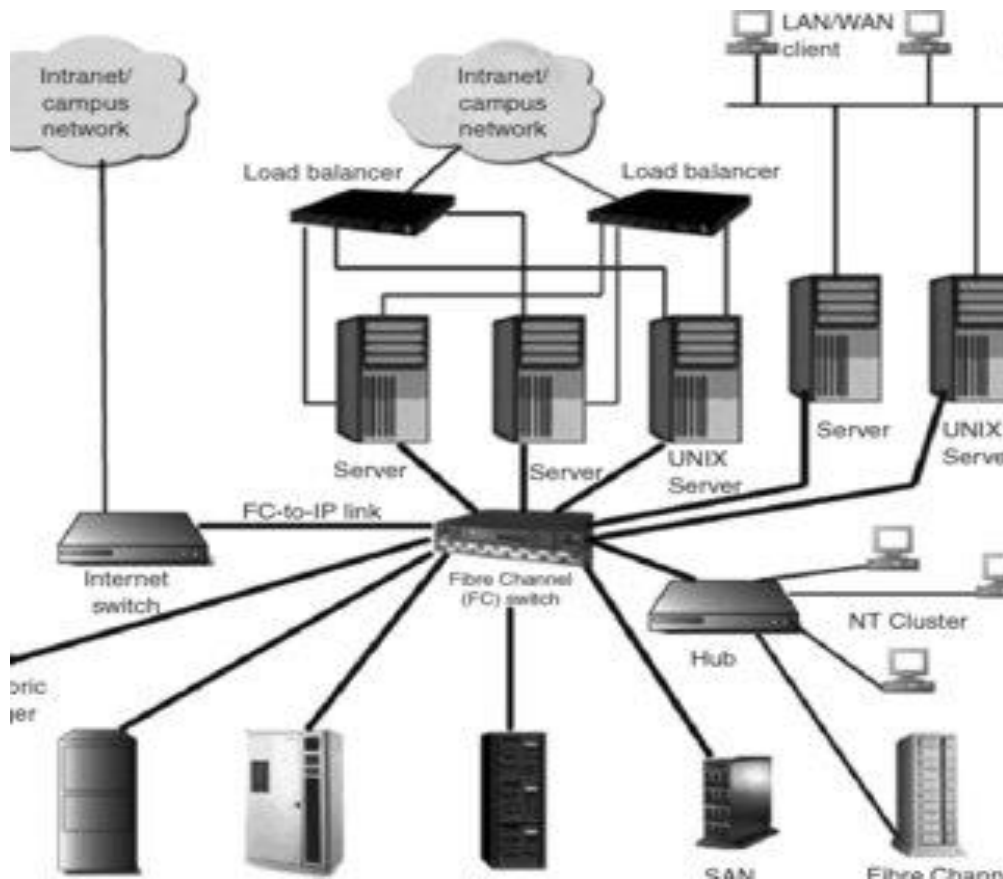




Training | Consulting | Development | Outsourcing



IBM SAN Fundamentals

☎ 9032803832

📞 9032803832

✉ contact@techyedz.com

🌐 www.techyedz.com

IBM SAN Fundamentals



Course Overview:

IBM offers a comprehensive portfolio of SAN switches, storage, software, services and solutions to reliably bring information to people in a cost effective way. IBM provides flexible, scalable and open standards-based business-class and global enterprise-class storage networking solutions for the on demand world.

This course provides an overview of storage network and data center networking technology. It reviews SAN concepts, Fibre Channel architecture, SAN topologies, IBM b-type offerings, IBM offerings from Cisco, and SAN over Ethernet architectures, such as iSCSI and FCoE.



Course Outline:

IBM SAN ENVIRONMENT

- Describe IBM SAN product offerings
- Discuss basic aspects of SAN interaction with Power systems
- Describe course lab environment
- Use AIX commands to identify system resources

IBM SAN DEVICE MANAGEMENT

- Discuss VIO server architecture as it relates to Fibre Channel
- Describe how to configure virtual Fibre Channel adapters
- Utilize VIO server commands to identify Fibre Channel resources
- Differentiate between physical & virtual Fibre Channel resources

SAN BOOT

- Interpret AIX boot strategies using SAN
- Identify resources required to complete a SAN boot
- Configure a SAN attached hdisk as a boot device

STORAGE SERVER DESIGN CONCEPTS

- Define storage server architecture models
- Active/Passive
- Active/Active
- Discuss common terminology used with storage servers

- Identify storage manager functions

SAN FABRIC CONCEPTS & OPERATIONS

- Summarize SAN fabric design elements
- Describe SAN addressing
- Discuss virtual FC resources

FIBRE CHANNEL SWITCHING CONFIGURATION

- Describe basic FC switch configuration elements
- Navigate switch environment
- Define zoning process

VIRTUAL I/O SERVER

- Discuss VIO server architecture as it relates to Fibre Channel
- Describe how to configure virtual Fibre Channel adapters
- Utilize VIO server commands to identify Fibre Channel resources
- Differentiate between physical & virtual Fibre Channel resources

SAN PERFORMANCE MONITORING CONSIDERATIONS

- Identify the I/O layers where queuing is handled
- View & change a FC disk & FC disk adapter's tuning attributes
- Monitor & tune the queue depth of disks & disk adapters
- Identify the filemon reports that display I/O activity
- Test I/O throughput using:
 - The time & dd commands
 - The ndisk program (part of the nstress package)

Prerequisites:

The following course, or equivalent knowledge, is required prior to this course:

- Introduction to Storage - ([SS01G](#))
- Introduction to Storage - ([SS01G](#))

Who Can Attend:

- This is a base course for individuals who are involved in the planning, installing, configuring, and upgrading of IBM systems.

 **Number of Hours: 40hrs**

 **Certification: SN71DG**

 **Key Features:**

- One to One Training
- Online Training
- Fastrack & Normal Track
- Resume Modification
- Mock Interviews
- Video Tutorials
- Materials
- Real Time Projects
- Virtual Live Experience
- Preparing for Certification

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