The Core Fundamentals of SAN Zoning

Skills and expertise to help you increase your knowledge in the field of storage technologies

TLC
Education and Training Services

Course Highlights

Training will be delivered by an experienced trainer with 25+ years of career experience imparting education and training services both locally and internationally and have served international enterprise technology vendors including IBM, Fujitsu, and ICL. Our instructor holds various industry professional certifications in the space of enterprise servers and storage technologies, Information Security, Enterprise Architecture, ITIL, Cloud, Virtualization, Green IT, and a co-author of 10 IBM Redbooks. The training course flow will be a mix of lectures & classroom discussions so that participants can have a detailed understanding of various components of Storage security and data protection technologies best practices.

Unit 1 – Fundamentals of Storage Security & Threats

- Threats and Security Challenges – Business Context.
- Types of Threats, Motives and Methods.
- Nine layers of IT Infrastructure Foundation from Security POV.
- Fundamental security principles of Storage Security.
- Understanding the role of Risk Management.
- Issues that needs attention from storage security POV.
- Storage Security Framework and its attribute and threat vector.
- Best principles for storage security & Best Practices defined.
- Hardening of the platform as a part of common practice.
- Storage security strategy and guiding principles.
- The Storage Threat Model – ISO/IEC 27040 Overview & Storage Security Management.

Prerequisites

Participants attending this course should be familiar with basic Information Technology (IT) concepts and the role of general storage systems technology.

About the workshop

This instructor led workshop is designed to develop skills in the area of setting up storage security and the necessary information required to understand core fundamentals of SAN Zoning. In this interactive workshop we will focusing on key zoning features including standard guidelines, best practices, and business resilience strategy from storage availability POV.

In a nut sell, two criteria can help determine the effectiveness of a storage security methodology. First, the cost of implementing the system should be a small fraction of the value of the protected data. Second, it should cost a potential hacker more, in terms of money and/or time, to compromise the system than the protected data is worth.

Unit 2 – Distributed Denial-of-Service Mitigation

- Understand Distributed Denial-of-Service (DDoS) Attack.
- DDoS Mitigation and Mitigation Stages.
- DoS Verses DDoS Attack.
- How does a DDoS attack work?
- Differentiate between different categories of DDoS attacks.
- Symptoms of a DDoS attack.
- What to do during a DDoS attack?
- Countermeasures for mitigating DDoS attacks.
- Five steps to mitigate data breach risks.
- Strategy to prevent DDoS attacks – Best Practices.
- DDoS Protection Services offered by 3rd Party Services Providers.

Unit 3 – SAN Zoning Principles

- Nine layers of IT Infrastructure layers from security PoV.
- Explaining security threat path.
- Risk Management and knowing your storage risks.
- How to determine the effectiveness of a storage security.
- SAN Security Defined.
- What are WWNNs and WWPNs – Concepts.
- Understand Host Bus Adapters and WWPN.
- Describe igroup, Logical Unit Number.
- Information you require to create a LUN.
- How all SAN components fits together and SAN Zoning?
- Differentiating between Hard and Soft Zoning.
- Understanding LUN Masking and LUN Zoning.
- The worst case scenario of one big zone.
- Creating zones for individual initiator ports.
- MPIO Best Practices.
- Considering Aliases for Zone Management.
- Managing Disk & Tape traffic.
- Housekeeping as a part of general Best Practices guideline.
- Zone element Naming Conventions.
- General Best Practices guideline and Recommendations.

Target Audience

- This workshop is equally ideal for end-user customers and technology vendors and their business partners, IT and security operations teams, storage & systems administrators, architects and security analysts, technology managers and presales professionals including security, audit and legal teams who want to equipped themselves with the principle knowledge of SAN Zoning and storage security framework.
- People who want to start their career as a Storage Architect.
- Students of engineering universities who want to embark their career in the field of Information Technology as a storage pre/post sales specialist.

Detail Information

Course Code : TN584

Course Duration : 1 Day - Face- to-Face Workshop

Course Location : TLC and Customer On-site.

Terms & Conditions :100% payment in advance.

Course Deliverable: Comprehensive Student Guide and Course Certificate

For additional information, please write to us at: info@tlcpak.com

Opportunities are made, not found