

Storage Information Security

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

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.



The storage training course is vendor neutral and it makes the attendee completely familiar with lot of technologies surrounding storage security and various complex issues and solutions thereof due to explosive growth of data.

Nevertheless, several issues are important when considering a security method for a security data on your storage devices using different storage protocols. Generally, storage security is the group of parameters and settings that make storage resources available to authorized users and trusted networks - and unavailable to other entities.

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 two-day face-to-face instructor led class is designed to develop storage security skills and data protection strategies associated with managing the explosive growth of business data across the enterprise in today's networked economy.

In a nut shell, 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 1 – Information Security Awareness

- Our world – and how we interact with it – is changing.
- The Evolution of Data increases storage security threats.
- Exponential Data Growth – Some key facts and figures.
- The Evolution of Storage technologies and future.
- What is Information Security and Information Storage.
- Information Security and Dependability.
- Business Drivers for Data Security.
- Security Vs. Safety in a view from threat perspective.
- Security – Defense in depth.
- Anti-Virus, Anti-Spyware and Firewalls.
- Avoid Social Engineering, Malicious Software and Hacker tricks.
- Understand Fraud and Pulling fraud out of the shadows.
- Top Security Concerns for Cloud-Based Storage Services
- Keep your Storage Security policy simple.
- 5 Questions you should ask to your storage Services Provider
- Top 5 Storage Security Challenges.
- Generalized Security Framework & Traditional and Enterprise Approach to Security.
- Understand Multifactor Authentication with scenarios.
- Unit 1 Assessment.

Unit 2 – Storage Security and Threats

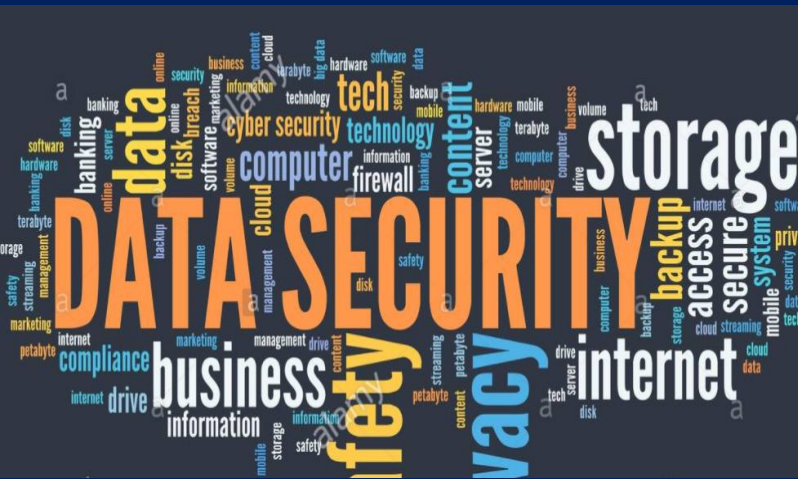
- Threats and Storage Security Challenges – Business Context.
- Types of Threats, Motives and Methods.
- Understand 9 layers of IT Infrastructure Foundation from Security POV.
- To address security, leaders must avoid common myths.
- Use five fundamental security principles to help guide you.
- Understanding the role of Risk Management.
- Understanding Storage Security.
- Understanding Layer 2 of Fibre Channel – A weakest link.
- Issues that needs attention from storage security POV.
- Criteria that determine effectiveness of a storage security.
- Best principles for storage security & Best Practices defined.
- Variety of technologies to ensure data storage security.
- Different types of data needs different storage security.
- Hardening of the platform as a part of common practice.
- Storage security strategy and guiding principles.
- The Storage Threat Model – ISO/IEC 27040.
- The Storage Threat Model – ISO/IEC 27040 & Storage Security Management.
- Understanding different threat levels.
- Storage Network Points of Attacks – Unauthorized Access, Spoofing and Sniffing.
- Unit 2 Assessment.

Unit 3 - Storage Data Protection Best Practices

- Why Data Protection is important?
- Knowing the three Sides of Data Protection.
- Personal Data Defined.
- Five phases of the data protection life cycle.
- Examining the Cost of a Data Breach – A small exercise.
- Understanding Data Protection – Executive Summary.
- Knowing the three Sides of Data Protection.
- Understand Fault Tolerance and Fault Resilience.
- Data Protection from ISO/IEC 27040 Point-of-View.
- Guidelines for Securing Backups from ISO/IEC 27040 POV.
- Data Replications technologies, Discussing Pros & Cons of data replication methodologies & Industry Best Practices.
- Considerations before setting up Data Replication Services.

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TLC have designed and developed a series of six storage workshops with a vision to fill the global storage resource gap. Visit the following link to view all the five workshops.
www.tlcpak.com/storagewrkshp.html



This storage workshop aims to demystify storage security challenges faced today by many organizations. This workshop shall provide substantial insight into the key trends based on storage securities covering various aspects following industry standard best practices by using ISO/IEC 27040 guidelines.

The workshop shall also discuss various data protection tools and methodologies.

- Guidelines for Securing Data Replications Services from ISO/IEC 27040 POV.
- The use of Data Encryption Services – Information Security.
- Data Encryption technologies, Discussing Pros & Cons of data encryption and Industry Standard Best Practices.
- Self Encrypting devices – Encrypting Data at Rest.
- Understand Compliance in context of Data Protection and Data Retention.
- Technologies relate to Compliance.
- Understand Compliance in context of Data Protection.
- Discussing Data Confidentiality, Data Sanitization following Industry Standard Best Practices.
- Understand Monitoring, Auditing and Reporting.
- Understand the Role of storage Snapshot Technology.
- Snapshots as a part of your Backup Strategy.
- Snapshot technologies, Discussing Pros & Cons of snapshot methodologies and Industry Standard Best Practices.
- Data Protection from ISO/IEC 27040 Point-of-View.
- Guidelines for Securing Backups from ISO/IEC 27040 POV.
- Guidelines for Securing Continuous Data Protection Services from ISO/IEC 27040 POV.
- Understand Data Anonymization and De- Anonymization.
- Understand Zero-day and your Security Strategy.
- Suggestions for Mitigating the effects of a Zero-day attack.
- Unit 3 Assessment.

- SAN Security Defined.
- About Fibre Channel protocol.
- Three essential parts of Storage Area Network.
- What are WWNNs and WWPNS – Concepts.
- Understand Host Bus Adapters and WWPNS.
- 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.
- Characteristics of Zoning.

- Understanding LUN Masking and LUN Zoning.
- Understand Switch Domain IDs.
- SAN Zoning Best Practices.
- The worst-case scenario of one big zone.
- Creating zones for individual initiator ports.
- Keep destinations isolated from each other in “single-initiator, single-target” zoning.
- MPIO Best Practices.
- Considering Aliases for Zone Management.
- Zoning is an important method to balance the workload.
- Keeping Disk & Tape traffic on a separate Host Bus Adapter.
- SAN Management tools offered by the vendors & its use.
- Housekeeping as a part of general Best Practices guideline.
- Zone element Naming Conventions.
- General Best Practices guideline and Recommendations.
- How exactly does zoning work? Zoning in a Nut Shell.
- Understanding SAN Switch features.

- The targeted audience includes Backup Recovery Operations teams, Disaster Recovery and Business Continuity teams
- IT Operation Teams, InfoSec and Cybersecurity professionals, Storage Pre Sales Specialists, Storage Consultants, Storage Architects, Systems Integrators
- Senior IT Managers who want to refresh their knowledge in storage technologies.
- Students of engineering universities who want to embark their career in the field of Information Technology as a storage pre/post sales specialist.

Course Code : TN184
Course Duration : 2 Day Online Workshop
Course Location : TLC, Online, and Customer On-site.

Terms & Conditions :100% payment in advance.
Course Deliverable: Comprehensive Student Guide and Course Certificate

