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Certified Network Defender v2

Certified Network Defender

Module 02: Administrative Network Security

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Why Organizations Need Compliance?

- Improves Security.
- Minimize Losses.
- Maintain Trust.

An organization needs to assess itself to determine which regulatory framework applies to it best.

Regulatory Framework	Organizations within Scope
Health Insurance Portability and Accountability Act (HIPAA)	Any company or office that deals with healthcare data, including, but not limited to, doctor's offices, insurance companies, business associates, and employers
Sarbanes Oxley Act	U.S. public company boards, management, and public accounting firms
Federal Information Security Management Act of 2002 (FISMA)	All federal agencies must develop a method of protecting information systems
Gramm Leach Bliley Act (GLBA)	Companies that offer financial products or services to individuals such as loans, financial or investment advice, or insurance
Payment Card Industry Data Security Standard (PCI-DSS)	Companies handling credit card information

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Payment Card Industry Data Security Standard

The PCI–DSS is a proprietary information security standard for organizations that handle cardholder information for the major debit, credit, prepaid, e-purse, ATM, and POS cards.
It applies to all entities involved in payment card processing, including merchants, processors, acquirers, issuers, and service providers, as well as all other entities that store, process, or transmit cardholder data

Goals	PCI DSS Requirements
Build and Maintain a Secure Network and Systems	1. Install and maintain a firewall configuration to protect cardholder data 2. Do not use vendor-supplied defaults for system passwords and other security parameters
Protect Cardholder Data	3. Protect stored cardholder data 4. Encrypt transmission of cardholder data across open, public networks
Maintain a Vulnerability Management Program	5. Protect all systems against malware and regularly update anti-virus software or programs 6. Develop and maintain secure systems and applications
Implement Strong Access Control Measures	7. Restrict access to cardholder data by business need to know 8. Identify and authenticate access to system components 9. Restrict physical access to cardholder data
Regularly Monitor and Test Networks	10. Track and monitor all access to network resources and cardholder data 11. Regularly test security systems and processes
Maintain an Information Security Policy	12. Maintain a policy that addresses information security for all personnel

Note : Failure to meet the PCI–DSS requirements may result in fines or termination of payment card processing privileges.

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Gramm-Leach-Bliley Act

The objective of the Gramm–Leach–Bliley Act (GLBA) was to ease the transfer of financial information between institutions and banks while making the rights of the individual more specific through security requirements.

Key Points include:

- Protecting consumer's personal financial information held by financial institutions and their service providers.
- The officers and directors of the financial institution shall be subject to, and personally liable for, a civil penalty of not more than $10,000 for each violation.

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Characteristics of a Good Security Policy

Concise and Clear: A security policy needs to be concise and clear, which ensures easy deployment in the infrastructure. Complex policies become hard to understand and employees may not implement them as a result.

Usable: Policies must be written and designed, so they may be used easily across various sections of an organization. Well-written policies are easy to manage and implement.

Economically Feasible: Organizations must implement policies that are economical and enhance the security of an organization.

Understandable: Policies must be easy to understand and follow.

Realistic: Policies must be practical based on reality. Using fictional items in a policy will only hurt an organization.

Consistent: Organizations must have consistency when implementing their policies.

Procedurally Tolerable: Procedural policies should be employer–employee friendly.

Cyber and Legal Laws, Standards, Rules and Regulations Compliance: Any policy that is implemented must comply with all rules and regulations regarding cyber laws.

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Considerations Before Designing a Security Policy

What is the purpose of the policy?
Is it a value addition or a mere formality?
Is the policy in line with the training programs?
Does the policy comply with the organization's objectives?
Is the policy a guideline for best practices or does it need to be based on a some standard?
How many people fall under the scope of the policy, and who are they?
What is the least amount of information each employee must know in order to do his or her job?
Are all details required in the policy?
Can the policies be linked?
What is the best method?
What does the staff need to understand from the policies?

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