
Lexington County
In God We Trust
1804
South Carolina


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IT Security

Steps to Mitigate Security Risk

Introduction

- Employee Security Awareness
- Monitoring and Management
  - Policy
  - Tools
  - Scheduled Maintenance
- Scanning and Testing
- Security Questionnaire in Request for Proposals

Employee Security Awareness

- Employee Security Awareness Education Program
- Structured Training for All Employees
- Continuous Training
- Products: SANS Litmos/KnowBe4

Monitoring and Management

- Security Policies (Sample at SC Department of Admin – https://admin.sc.gov/technology/policies_procedures)
  - IT Governance (A decision making framework that reflects an organization's goals and priorities, and how the enterprise intends to achieve them)
    - Data Protection and Privacy
    - Access Control
    - Asset Management
    - Business Continuity
    - Mobile Security
    - Threat and Vulnerability Management
- Tools
  - Web Filters/Virtual Private Networks
  - Anti-Virus, Logs and Alerts
  - Email Safe Links, Email Attachment Scan
- Scheduled Maintenance

Testing and Scanning

- Third-Party Testing
  - Internal/External Penetration Testing
  - Password Database Audit
  - Wireless Access Point
  - IT Audit
  - Phishing Test
- Password Complexity, Password Spreadsheets
- Network Scans (PII, SSN, Employee Records), Software Vulnerabilities

Security Questionnaire in Request for Proposals

- Included in All Proposals
- Addendum to Current Vendors
- Understand Vendor Security Risks
- Questionnaire
  - Describe Policies and Procedures
  - Describe Disaster Recovery and Business Continuity Plans
  - Safeguards to Vet Employees/Contractors
  - List Security Certifications
  - Describe Data Encryption and Safeguards Preventing Unauthorized Access
  - Describe Incident Management Procedures for a Data Breach

Summary

- Design, Build and Configure with Security Focus
- Train and Test Employees on Security Awareness
- Create and Enforce Security Policies and Procedures
- Initiate Third-Party Penetration Testing
- Complete Annual Security Audit
- Monitor and Manage systems


time for questions