Certified Information Systems Security Professional, Part 1 of 9: Risk and Authentication

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Meet the expert: Kevin is an international author, consultant and international >speaker. He is the official course development writer for ISC2 CISSP, ISACA CRISC

and mile2's C)ISSO. Kevin has been educating IT professionals for over 30 years. He

also provides cyber security consulting and support services for organizations

around the world. Assisting them with setting up Information Security programs and

addressing areas ranging from in-depth risk analysis to policy creation and security

awareness.

Prerequisites: This series assumes a good understanding of enterprise networking and networking security.

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Course description: This course covers risk management and authentication. It will look at risk from a negative perspective or the likelihood of something bad happening. Topics covered will be plans, programs and infrastructure providing the foundation for all other domains including access control, validating, and verifying the use of resources. This course is part of a series covering the ISC(2) Certified Information Systems Security Professional or CISSP.

Course outline:

Risk Definitions

- Introduction
- Risk Management Flow
- Risk Definitions
- What Is the Value of an Asset
- What Is a Threat Source/Agent
- What Is a Threat
- · What Is a Vulnerability
- · Examples of Non-Obvious
- Vulnerabilties
- · What Is a Control
- · What is Likelihood
- · What Is Impact
- Control Effectiveness
- Summary

Risk Management

- Introduction
- Agenda
- Risk Management
- Risk Response and Monitoring
- Purpose of Risk Management

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Summary

Risk Assessment

- Introduction
- Risk Assessment

- Why Is Risk Assessment Difficult
- · Different Approaches to Analysis
- Quantitative Analysis
- Threat Analysis and Annual
- Loss Expectency
- Quantitative Analysis Continued
- ALE Value Uses
- Qualitative Analysis: Likelihood
- Qualitative Analysis Impact · Qualitative Analysis - Risk Level
- · Qualitative Analysis Steps
- Summary

Responding to Risk

- Introduction
- Completion of Risk Assessment
- Risk Response
- Management's Response to
- Identified Risks
- Summary

Understanding Security

- Introduction
- · What Is Information Security
- What Is Information Security Continued
- The Information Security Triad
- · Understanding the Business
- Summary

Security Controls

Introduction

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- · Setting up a Security Program Enterprise Security Program
- · Building a Foundation
- Planning Horizon Components
- · Enterprise Security: The **Business Requirements**
- Enterprise Security Program Components
- Control Types
- "Soft" Controls
- Technical or Logical Controls
- Physical Controls
- · Roadmap to Maturity
- Program Monitoring
- Summary

Roles and Responsibilities

- Introduction
- · Senior Management's Role in Security
- · Security Roles and Responsibilities
- Roles and Responsibilities
- Agenda
- Security Program Components
- Information Security Policy
- Security Policy Review
- Implementing Policy
- · Security Enforcement Issues Summary Summary

Enforcement

Security

Access Control Methodology

- Introduction
- Access Control Administration
- · Accountability and Access Control
- Trusted Path
- Who Are You?

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 Summary Human Resources

Agenda

Factors

Introduction

· Security and the Human

Employee Management

Importance to Security

Recruitment Issues

Types of Training

Quality Training

Human Resources Issues

Termination of Employment

Human Resources Practices

Informing Employees About

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- Authentication Mechanism Strong Authentication
- Behavior-Based IDS

• Trapping an Intruder

 IDS Response Mechanisms · IDS Issues

Summary

Summary

- Authorization
- Access Criteria
- Fraud Controls and Access Control Mechanisms
- Summary

Biometrics and Passwords

- Introduction
- Biometric Technology
- Biometrics Enrollment Process
- Downfalls to Biometric Use
- Biometrics Error Types Biometrics Diagram
- Biometric System Types
- Agenda
- Passwords and PINs
- Password Shoulds
- Password Attacks
- · Countermeasures for Password Cracking
- Cognitive Password
- One-Time Password
- Authentication Agenda
- Synchronous Token Asynchronous Token Device
- Cryptographic Keys
- Passphrase Authentication
- Memory Cards and Smart
- Cards
- Summary

Single Sign-on

- Introduction
- Single Sign-on Technology
- Different Technologies
- Scripts and Directory Services
- Thin Clients
- · Kerberos as a Single Sign-on Technology
- Tickets
- · Kerberos Components Working Together
- Major Components of Kerberos
- Kerberos Authentication Steps
- Purpose of Kerberos
- Issues Pertaining to Kerberos
- SESAME as a Single Sign-on
- Technology Federated Authentication
- Summary

Intrusion Detection Systems

- Introduction
- Host-Based IDS
- Network-Based IDS Sensors
- Types of IDSs

