

# Forward Edge Cybersecurity Bootcamp: Domain 1 Group Project

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**Project 1: Establishing Fundamental Security Controls and Concepts (Domain 1: Foundations of Security Controls)**

**Objective:** Develop and present the foundational security controls and concepts for a hypothetical client company, demonstrating practical applications and solutions based on the knowledge gained from Domain 1.

**Group Assignments and Example Case Studies:**

**CyberGuard Solutions Ltd. - Healthcare Sector**

- **Fictitious Client:** MedSecure Health Systems
- **Scenario:** CyberGuard Solutions implemented foundational security controls for MedSecure Health Systems, a healthcare provider managing sensitive patient data and critical healthcare infrastructure.

**Activities:**

**1. Analyze and Categorize Security Controls:**

- Identify and categorize security controls (preventive, detective, corrective) relevant to the hypothetical client's industry and needs.

**2. Draft Fundamental Security Concepts:**

- Document key security concepts such as the CIA triad (Confidentiality, Integrity, Availability), AAA (Authentication, Authorization, Accounting), and Zero Trust, and explain their application for the client.

**3. Document Change Management Processes:**

- Outline a basic change management process, emphasizing its importance in maintaining security and operational integrity.

**4. Select Appropriate Cryptographic Solutions:**

- Recommend cryptographic solutions (encryption, hashing, digital signatures) tailored to the client's specific data protection needs.

**Deliverables:**

- **Security Control Analysis Report:** A report categorizing various types of security controls and how they would be implemented for the client's environment.

- **Fundamental Security Concepts Document:** A document summarizing essential security concepts and their practical applications for the client.
  - **Change Management Process Outline:** A document outlining a basic change management process relevant to the client's operations.
  - **Cryptographic Solutions Recommendation:** A report recommending specific cryptographic solutions to enhance the client's data security.
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### Storyline Introduction:

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Welcome to the Forward Edge Consulting Ltd. cybersecurity bootcamp. Throughout this bootcamp, you will engage in a series of projects designed to simulate real-world cybersecurity tasks and challenges. You will be divided into four groups, each representing a cybersecurity consulting firm. These firms will compete to win a contract from Forward Edge Consulting Ltd. by demonstrating their expertise and capability in handling various cybersecurity scenarios.

**Project 1: Establishing Fundamental Security Controls and Concepts** In the first phase of our competition, your firms will focus on establishing the foundational security controls and concepts for a hypothetical client organization. Each group will present their work as though they had implemented these solutions for a different organization in the past, showcasing their approach and experience.

**Objective:** The goal is to demonstrate your understanding of various security controls and fundamental security concepts by applying them to a hypothetical client's environment.

#### Example Case:

- **CyberGuard Solutions Ltd.** established foundational security controls for MedSecure Health Systems

Each group will have the opportunity to present their deliverables to Forward Edge Consulting Ltd., highlighting their methodology and the value they bring to securing an organization. The best-performing group in this project will gain an edge in the overall competition, bringing them one step closer to winning the contract.

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This approach keeps the projects aligned with practical applications while giving participants the freedom to explore and apply their knowledge creatively.