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**Roll no. 38**

**Subject – CL – II**

**Assignment 1**

**Planning, Securing, and Governing Enterprise Architecture**

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**Executive Summary**

Enterprise architecture (EA) plays a critical role in aligning an organization's IT infrastructure with its business goals. Effective EA planning, security, and governance ensure that the organization's IT systems are efficient, secure, and compliant with industry standards and regulations. This report provides a comprehensive overview of EA planning, security, and governance, highlighting best practices and providing a sample report with examples.

**Sample Report:**

**Planning:**

* **Objective:** To establish a scalable and cost-effective cloud infrastructure to support the organization's growing business needs.
* **Assessment:** The current on-premises IT infrastructure is reaching its capacity limits and is becoming increasingly expensive to maintain.
* **Roadmap:**
  1. Migrate on-premises systems to a cloud platform such as Amazon Web Services (AWS) or Microsoft Azure.
  2. Adopt cloud-native technologies such as containers and microservices to enhance scalability and agility.
  3. Automate infrastructure provisioning and configuration management to reduce manual processes and improve efficiency.

**Securing:**

* **Implementation:**
  1. Implement multi-factor authentication for employee access to sensitive data and systems.
  2. Deploy intrusion detection and prevention systems to monitor network traffic for malicious activity.
  3. Conduct regular security audits to identify and address vulnerabilities.

**Governing:**

* **Establishment:**
  1. Create an EA governance board composed of senior executives and IT leaders.
  2. Define EA policies and standards that align with business objectives and industry best practices.
  3. Implement a process for reviewing and approving major IT projects to ensure compliance with EA principles.