

Exercise Sheet 6: Security in Cloud Services

Questions and Answers

1. Cloud Security Principles: Explain the shared responsibility model.

Answer: The shared responsibility model divides security responsibilities between the cloud provider and the customer. The provider secures the infrastructure, while the customer secures data, applications, and access.

2. Data Encryption: Describe the importance of data encryption in the cloud.

Answer: Data encryption ensures that sensitive information is protected from unauthorized access during storage and transmission. It is a critical component of data security in the cloud.

3. Compliance: List common compliance standards and how cloud providers meet them.

Answer: Common standards include GDPR, HIPAA, and SOC 2. Cloud providers meet these standards through rigorous security controls, regular audits, and compliance certifications.