

PRACTICE QUESTIONS ON CYS 825

1. Conduct a risk assessment of a cloud-based system or application, identifying potential security threats and vulnerabilities.
2. Compare and contrast the security features and controls of different cloud providers (e.g., AWS, Azure, Google Cloud).
3. Develop a cloud security policy for a fictional organization, including policies for data classification, access control, and incident response.
4. Analyze a real-world cloud security breach or incident, identifying root causes and recommending mitigation strategies.
5. Describe the Hypervisor in the context of Cloud Computing?
6. It is said, 'cloud computing can save money'. What is your view?
7. Explain the 'shared responsibility model' in cloud security, and discuss how this model distributes security responsibilities between cloud service providers and customers.3a.
8. How do you stay up-to-date with the latest trends and advancements in cloud security?
9. Describe how you would monitor and detect security incidents in a cloud environment including some common vulnerabilities in cloud infrastructure and how to address them?
10. Discuss the concept of identity and access management (IAM) in the context of cloud security?
11. Explain how you would handle a Distributed Denial of Service (DDoS) attack in a cloud environment?
12. What steps would you take to secure data backups and disaster recovery in the cloud and how do you ensure compliance with regulatory requirements (e.g., GDPR, HIPAA) in a cloud environment?

13. Briefly describe the process of vulnerability management in a cloud environment and how you would ensure the security and privacy of data stored in a cloud database?
What is the role of security policies in cloud security and also What are some methods for securing cloud-based file storage?
14. Describe the Cloud Security Incident Response, and what are its key components?
15. Explain the NIST Cloud deployment models and some common cloud security threats
server virtualization is the technology that allows you to run multiple virtual machines (VMs) on a single physical server. Justify this statement
16. Describe about five (5) organizations that are the key players of the Cloud Security policy forum, stating their key contributions and importance.
17. What is the principle of least privilege, and why is it important in cloud security?
18. Identify and elaborate on at least three key security threats in cloud computing, and for each, discuss potential solutions or mitigation strategies.
19. Discuss the role of security controls, such as 'Security-as-a-Service,' in addressing cloud security challenges, and evaluate their effectiveness in the context of the evolving threat landscape.