1. Definition cloud computing
2. characteristic of cloud computing
3. Features
4. components of cloud computing,
5. cloud computing reference architecture of NIST
6. Layer and Types of Cloud
7. VULNERABILITIES AND ATTACKS on different layers
8. Cloud Data Security
9. Digital Signature , Hashing
10. Virtualization Security
11. PRIVACY AND SECURITY IN CLOUD STORAGE SERVICES
12. Cloud Data Protection Models
13. Enforcing Access Control Policies in the Cloud
14. Strong protection, Medium protection, Low protection:
15. PRIVACY AND SECURITY IN MULTICLOUDS
16. Reliability, Semantic security, Trapdoor security , Robustness
17. CLOUD ACCOUNTABILITY
18. Different storage types,: Object storage, Block storage, File storage,
19. types of virtualization, Full virtualization, Paravirtualization, Partial virtualization
20. KVM , XEN, VMware ESXi, Hyper-V, BareMetal,
21. Containerization, Docker. Containers
22. Product maturity ,Project maturity
23. CMM levels - 0-6
24. Certifications and attestations : Iso 27001 and SOC 2
25. Linux hardening ,Windows hardening
26. PCI passthrough
27. Cloud computing models: Service model and deployment model : PaaS -Working Principle, Example, SaaS -Working Principle, Example, Iaas -Working Principle, Example, Recent Service Models : BMaas, XaaS, cloud services and technologies, Service Management in Cloud
28. Service level agreement SLA (Amazon AWS)