**Module 24) Cloud Computing - system management and Public Cloud**

1. **Resource Monitoring Techniques**

**Ans:** Cloud-Monitoring-as-a-Service (CMaaS), Multicloud Monitoring,, Agent-based Resource Monitoring,, Machine Learning, Resource Consolidation, Resource Allocation, Resource Mapping, Resource Discovery, Resource Provisioning, Cloud Monitoring 2-How to access compute (windows and Linux) f

1. **How to access compute (windows and Linux) from internet? describe tools and its security**

**Ans:** RDP client, Port forwarding, Remote Desktop Protocol (RDP) Encryption Technologies and Methods .

**Tools:** Dameware Remote Support (DRS), LogMeInm, TeamViewer.

**Security:** Firewall configuration, Encryption, Authentication, Access control

1. **Encryption Technologies and Methods**

**Ans: Technologies:** Cloud encryption is a critical security measure in cloud computing, ensuring the confidentiality, integrity, and availability of data stored and processed in the cloud. It involves encrypting data at rest and in transit, using algorithms and keys managed by the cloud provider or the customer.

**Methods:** 1. Asymmetric Encryption (Public-Key Cryptography): Uses two keys: a public key for encryption and a private key for decryption. Examples include RSA and Elliptic Curve Cryptography (ECC).

2. Symmetric Encryption: Uses a single key for both encryption and decryption. Examples include Advanced Encryption Standard (AES) and Transport Layer Security (TLS).

1. **Describe network security in cloud, compute security and storage security?**

**Ans: Network Security:** Ensures the confidentiality, integrity, and availability of data and applications transmitted over cloud networks.

-> Secures public or private cloud networks from breaches and cyberattacks.

**Compute Security:** Protects virtual machines (VMs), containers, and serverless functions from unauthorized access and malicious activities.

-> Ensures the confidentiality, integrity, and availability of data processed and stored in cloud-based compute resources.

**Storage Security:** Protects data at rest and in transit within cloud-based storage systems. -> Ensures the confidentiality, integrity, and availability of data stored in cloud object storage, block storage, and file storage.