





Security of Physical and Environment Component:

1. Strict Physical Access Control & Monitoring

- Use biometric IDs, metal detectors, surveillance cameras, and intrusion detection systems (IDS).
- Maintain detailed access logs and conduct regular audits.

2. Environmental Safeguards & Redundancy

• Ensure 24/7 power supply, fire detection/suppression, and climate control to prevent overheating or outages.

3. Secure Lifecycle & Compliance Management

- Enforce data sanitization and secure decommissioning of hardware.
- Maintain compliance with global/industry standards and automate patching and issue remediation

Security of Management Component:

1. Identity & Access Management (IAM)

- o Enforce least privilege access and multi-factor authentication (MFA).
- Use a hierarchy of accounts: Root/Master (rarely used), Super-admin, and Service Admins with scoped permissions.

2. Cloud Provider Responsibilities

- o Implement perimeter security for APIs and consoles.
- Use strong authentication standards (e.g., OAuth) and secure internal credential handling.
- o Provide granular authorization for both internal admins and customer-facing roles.

3. Logging, Monitoring & Alerts

- o Maintain detailed logs of user and admin actions on cloud resources.
- Enable real-time monitoring and alerting for unusual activities, and provide log access via APIs for customers.

Security of Network Component:

1. Access Control & Traffic Encryption

- Enforce network access control (ACLs) to limit access to VMs/services.
- Encrypt all outbound traffic leaving physical boundaries, and authenticate traffic between VMs.

2. Monitoring & Segmentation

- o Use access points to monitor inbound/outbound traffic.
- Continuously monitor network devices, firewall rules, usage, scans, and anomalies with automated tools.
- Physically segregate networks for operations and security.

3. Resilience & Secure Management

- o Use geographically distributed data centers for failover.
- Secure remote management with SSL/HTTPS to prevent tampering and eavesdropping on the management plane.

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