# CSA Requirements

**1. Features of Cloud in the Final Implementation**

After the implementation, the cloud infrastructure of the OzMart Retail Group will provide a wide range of features that are designed to enhance the security, efficiency, and the scalability.

**1. Identity and Access Management (IAM):**

**How it Works:** Strong identity and access management practices will regulate users' access to cloud resources, therefore ensuring that only authorised persons may access the network and sensitive information.

**Features Provided:**

* Role-based access control (RBAC)
* Multi-factor authentication (MFA)
* Single sign-on (SSO)
* Centralized user management

**2. Data Encryption:**

**How it Works:** Strong encryption approaches will protect the data both in transit and during in the storage by using data encryption techniques.

**Features Provided:**

* Encryption of data stored in cloud storage solutions
* Encryption of data during transmission using TLS/SSL
* Key management services (KMS)

**3. Network Security:**

**How it Works:** Security measures on the network architecture are intended to protect data and applications from unauthorized access and incidents through the use of network design.

**Features Provided:**

* Virtual Private Cloud (VPC) setup
* Network firewalls and security groups
* Intrusion detection and prevention systems (IDPS)
* Secure VPN connections

**4. Threat Detection and Response:**

**How it Works:** Tools for real-time monitoring, threat identification, and automated response will be put in use to rapidly identify and protect against possible security threats.

**Features Provided:**

* Security information and event management (SIEM) systems
* Automated incident response workflows
* Anomaly detection algorithms
* Continuous monitoring and alerts

**5. Security Compliance:**

**How it Works:** Following best practices and performing regular audits will help us to guarantee that we comply with the relevant industry rules and regulations.

**Features Provided:**

* Compliance with standards like ISO 27001, GDPR, and HIPAA
* Regular security audits and assessments
* Compliance reporting and documentation

**6. Incident Response:**

**How it Works:** Regular audits and adherence to best standards will enable us to ensure that we follow the relevant business rules and regulations.

**Features Provided:**

* Incident response planning and procedures
* Incident response team (IRT) setup
* Post-incident analysis and reporting

**2. Flow Chart of the Cloud Features**

