SEC602
Systems Security

Why is Security Important?

Mitigate Risk

Protect Assets
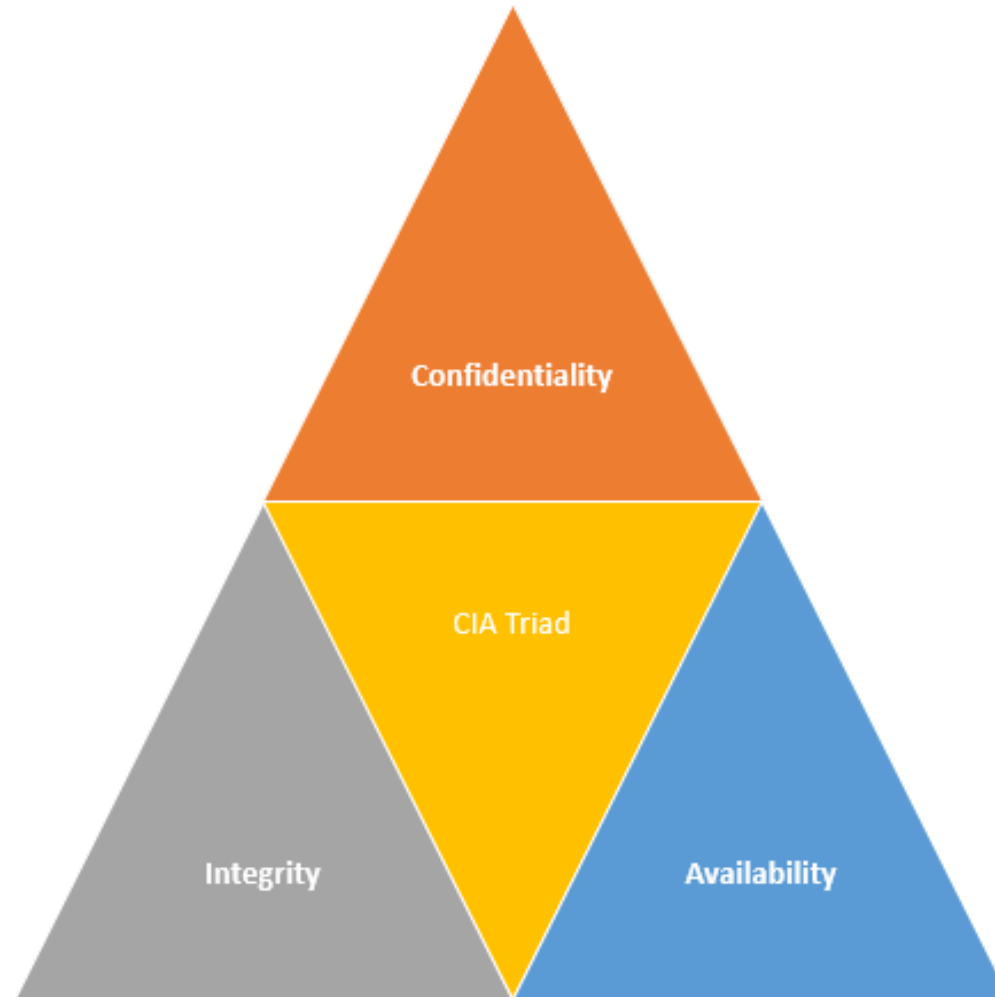
Compliance

Assets

Tangible

- Equipment
- Infrastructure
- Data
- Employees
- Money

Intangible

- Market value
- Reputation

The CIA Triad

- Confidentiality
- Integrity
- Availability

Non-Repudiation

- The assurance that an entity cannot deny the validity of something

- The assurance the sender is the one who claims to be the sender

- The assurance that the data transferred has not been modified in transit

Security Governance

- Roles and responsibilities

- Policy

- Procedures

- Standards

- Controls

- Metrics

Security Components

- Risk

- Assets

- Vulnerabilities

- Threat

- Exploit

- Threat Actor

- Threat Vector

- Impact