

Chapter 10

Physical Security

Episode 10.01

Episode title: **Physical Security Overview**

Objective: **Overview**

Episode 10.02

Episode title: **Physical Security**

Objective: **2.7 Explain the importance of physical security controls.**

Physical Security

- IT services rely on underlying hardware
 - On-premises
 - Cloud
- Local access to IT systems is a security risk
 - Encrypt data at rest

Personnel

- Guards
- Badges
- Visitor logs
- Robot sentries
- Reception

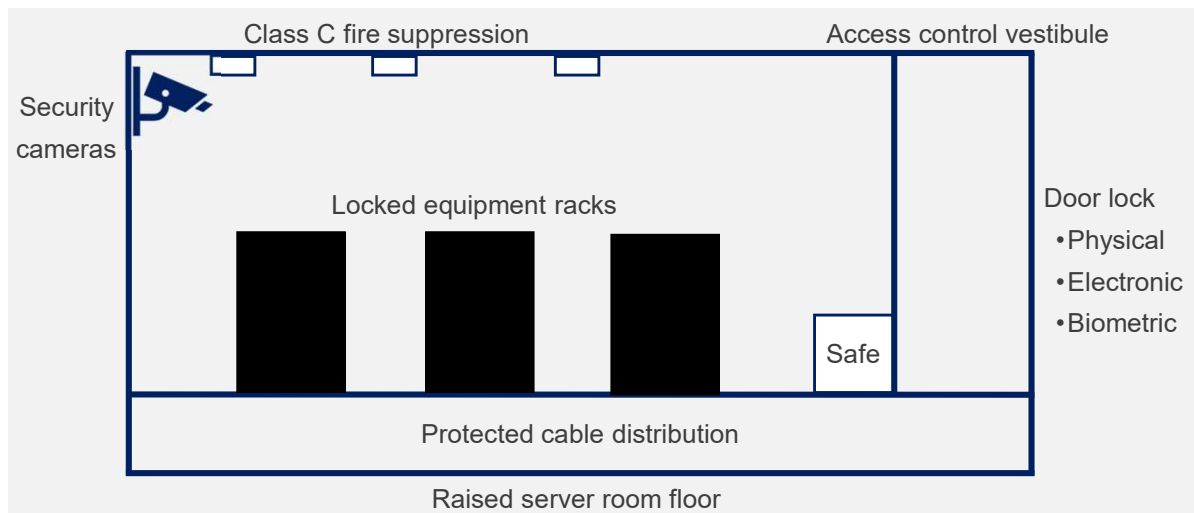
Facility Security

- Location
 - Undisclosed address
 - Protection from natural disasters
- Signage
- Fencing
 - Height
 - Periodic inspection

Facility Security

- Bollards/barricades
- Industrial camouflage
- Motion detection
 - Lighting
 - Alarm systems

Server Room Security



Quick Review

- Encrypt data at rest
- Personnel and facility security protect equipment
- Air-gapped networks are physically disconnected from other networks

Episode 10.03

Episode title: **Keylogger Demo**

Objective: **2.2 Given a scenario, analyze potential indicators to determine the type of attack.**

Episode 10.04

Episode title: **Environmental Controls**

Objective: **2.7 Explain the importance of physical security controls.**

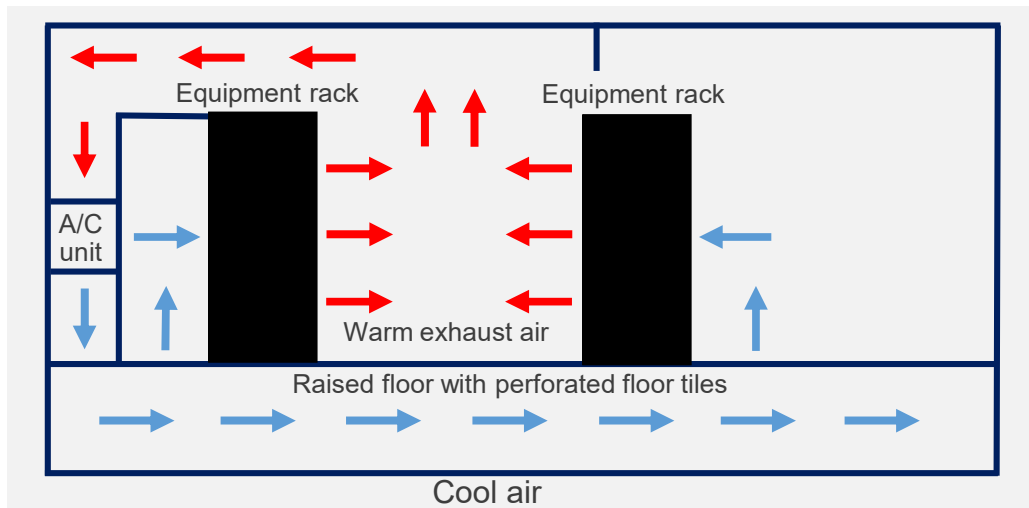
Server Room Airflow Management

- Keep incoming cool air separated from outgoing warmer air
- Draw in cool air to equipment
- Draw hot air from equipment out

Server Room Airflow Management

- Containment panels/curtains
 - Prevent cool and warm air from mixing
- Blanking panels
 - Fill empty rack slots to optimize airflow

Hot and Cold Aisles



Environmental Monitoring

- Sensors
 - Temperature
 - Pressure
 - Humidity
 - Noise
 - Proximity
- Monitoring software

Quick Review

- Hot and cold aisles keep warm and cool air separate
- Cool air is fed into the equipment
- Warm exhaust air is drawn away from the equipment