

## Protecting Security of Assets

### 1. Classifying and Labeling Assets

- One of the first steps in asset security is classifying and labeling assets.
- Protected Health Information
- Proprietary Data
  - Proprietary data refers to any data that helps an organization maintain a competitive edge. It could be software code it developed, technical plans for products, internal processes, intellectual property, or trade secrets.
  - Defining Classifications
    - Top Secret
    - Secret
    - Confidential
    - Unclassified
- Defining Data Security Requirements
  - After defining data classifications, it's important to define the security requirements.
- Understanding Data States
  - Data at Rest
  - Data in transit
  - Data in use
- A key goal of managing sensitive data is to prevent data breaches.
- Marking Sensitive Data
- Marking also includes using digital marks or labels.
- Handling Sensitive Data
  - Handling refers to the secure transportation of media through its lifetime.
  - Policies and procedures need to be in place to ensure that people understand how to handle sensitive data.
- Storing Sensitive Data
  - Sensitive data should be stored in such a way that it is protected against any type of loss.
- Destroying Sensitive Data
  - Data remanence is the data that remains on a hard drive as residual magnetic flux.
  - A degausser generates a heavy magnetic field, which realigns the magnetic fields in magnetic media
  - The following list includes some of the common terms associated with destroying data:
    - Clearing
    - Erasing
    - Purging
    - Declassification
    - Sanitization
    - Degaussing

## CISSP Study Notes Important Lines

- Destruction
- Degaussing and Purging is very important

## 2. Identifying Data Roles

- The data owner is the person who has ultimate organizational responsibility for data.
- The system owner is the person who owns the system that processes sensitive data
- The system owner is responsible for ensuring that data processed on the system remains secure.
- A data administrator is responsible for granting appropriate access to personnel.
- Data owners often delegate day-to-day tasks to a custodian.

## 3. Protecting Privacy

- Many laws require organizations to disclose what data they collect, why they collect it, and how they plan to use the information.
- Baselines provide a starting point and ensure a minimum security standard.
- Scoping refers to reviewing baseline security controls and selecting only those controls that apply to the IT system you're trying to protect.