Framework and Control

What you'll learn

- Security framework and controls
- Ethics of security

Security Framework

Guidelines used for building plans to help mitigate risks and threats to data and privacy.

Purpose
- Protecting (Personally Identifyble information) PII
- Securing financial information
- Identifying security weakness
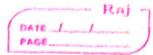- Managing organizational risk
- Alligning security with business goals

Four core component of Framework
- Identifying organizational goat and documenting security
- Setting guidling to achieve security goat
- Implementing strong security process
- Monitoring and commenicating results

Security Control
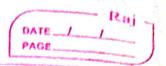& Safeguards designed to reduce specific security risks

CIA Triad

A foundational model that helps inform how organizational consider risk when setting up systems and security policies.

Data protected by CIA
- Confidentiality
- Integrity
- Availability

Confidentiality: only authorized users can access specific assets or data

Integrity: Data is correct, authentic and reliable

Availability: Data is accessible to those who are authorized to access it

Asset:
An item percieved as having value to an organization

NIST Cybersecurity Framework (CSF)
A voluntary framework that consist of standard, guidelines and best practices to manage cyber security risks.

(FERC-NERC) = The fedral Energy Regulatory Commission
North american Electric Reliability
Corporation

(FedRAMP) = Fedral Risk and Authorization
Management Program

(CIS) = Center for Internet security

GPPR = General Data Protection Regulation

PCI DSS = Payment Card Industry Data security
Standard

HIPAA = Health Insurance Protor Portablity
and accountablity act

PHI = Protect health Information

An ISO = International Organization for
standardization

SOC = System and organization Control

PII Collecting from other

We should make sure we're very deliberate about how it's handled and where it's stored and that we understand where it is stored all the time

Security Ethics:

Guidelines for making appropriate decision as a security professional

Principles
- Confidentiality
- Privacy Protection
- Laws

Privacy Protection: safeguarding personal information from unauthorized use

Laws: Rules that are recognized by a community and enforced by a governing entity