

Objectives

- Describe the significance of policies
- Evaluate the role policy plays in corporate culture and civil society
- Articulate the objective of cybersecurity-related policies
- Identify the different characteristics of successful cybersecurity policies
- Define the life cycle of a cybersecurity policy

Introduction

- Policy: "A definite course of action or procedure selected from among alternatives and in light of given conditions to guide and determine present and future decisions" **

(** per www.merriamwebster.com)

Old rules Written as Policy

- 3000-year old documents include business rules still in practice today
- First documented attempt at creating a code to preserve order
- Examples
 - Not to use false weights and measurements
 - Not to charge excessive interest
 - To be honest in all dealings
 - To pay wages promptly
 - To fulfill promises to others

U.S. Constitution as Policy

- A collection of articles and amendments that codify all aspects of American government along with citizens' rights and responsibilities
- A rule set with a built-in mechanism for change

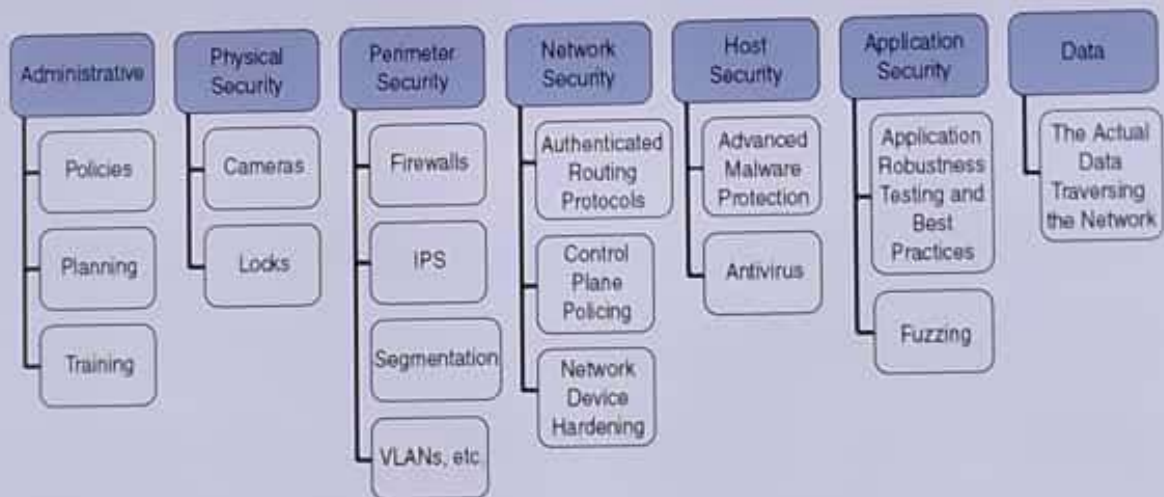
Policy Today

- Corporate culture
 - Shared attitudes, values, goals, and practices that characterize a company
 - Three classifications
 - Negative
 - Neutral
 - Positive
- Guiding principles
 - Reflect the corporate culture

What is a Cybersecurity Policy?

- Cybersecurity policy: Document that states how an organization plans to protect its information assets and information systems and ensure legal and regulatory compliance
- Asset: A resource with a value
- Information asset: Any information item, regardless of storage format, that represents value to the organization
 - Examples: Customer data, employee records, IT information, reputation, and brand

Defense-in-Depth



Successful Policy Characteristics

- **Endorsed**

- Management supports the policy

- **Relevant**

- The policy is applicable and supports the goals of the organization

- **Realistic**

- The policy makes sense

- **Attainable**

- The policy can be successfully implemented

- **Adaptable**

- The policy can be changed

- **Enforceable**

- Controls that can be used to support and enforce the policy exist

- **Inclusive**

- The policy scope includes all relevant parties

Defining the Role of Policy in Government

- Government regulation is required to protect its critical infrastructure and citizens
- Two major cybersecurity-related laws were passed in the 1990s
 - Gramm-Leach-Bliley Act (GLBA)
 - The Health Insurance Portability and Accountability Act (HIPAA)

States as Leaders

- California was the first state to enact consumer cybersecurity notification
 - SB1386: California Security Breach Information Act
 - 46 states have passed similar legislation
- Massachusetts was the first state to require the protection of personally identifiable information on Massachusetts residents
 - 201 CMR 17: Standards for the Protection of Personal Information of Residents of the Commonwealth

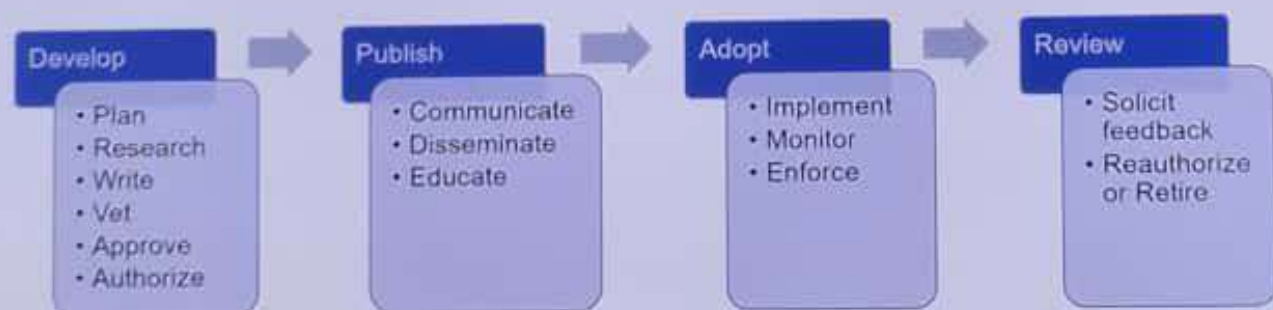
Additional Federal Banking Regulations

- Federal Reserve Bank (FRB)
- Office of the Comptroller of the Currency (OCC)
- Federal Deposit Insurance Corporation (FDIC)

Government Cybersecurity Regulations in Other Countries

- European Union Agency for Network and Information Security (ENISA)
- Directive on Security of Network and Information Systems (the NIS Directive)
- EU General Data Protection Regulation (GDPR)

Cybersecurity Policy Lifecycle



Summary

- A policy is a course of action or procedure selected from among alternatives and in light of given conditions to guide and determine present and future decisions
- Policies have been found in ancient documents. The U.S. Constitution is also a policy document
- Modern policies are based on corporate culture and guiding principles
- A cybersecurity policy states how an organization plans to protect its information assets and systems