Cybersecurity

A Compliance Professional's Perspective

Cybersecurity?

- Body of technologies, processes, and practices
- Designed to protect networks, devices, programs and data
- Attack, damage, or unauthorized access
- Corresponds to but is also distinct from information security.
- Costs[1]:
  - Average annualized cost of cyber crime - $ 11.7 Million
  - Average cost of a malware attack - $ 2.4 Million
  - Increase in cybersecurity costs (2017 Vs 2016) – 23%

1 - 2017 Cost of Cybercrime Study by Accenture

Cybercrime Landscape

Target	Asset	Actor	Motivation
Individual	Information	Organized Crime	Money
Organization	Application	Script Kiddies	Recognition
State	Network	Insider	Revenge
		Hacktivists	Morality
		Nation State	Competition
			Nationalism

Insiders – An Ominous Threat

90%	Organizations which feel vulnerable to insider attacks
53%	Confirmed insider attacks reported by organizations
64%	Organizations shifting focus to insider threats
86%	Organizations which have or are building an insider threat program

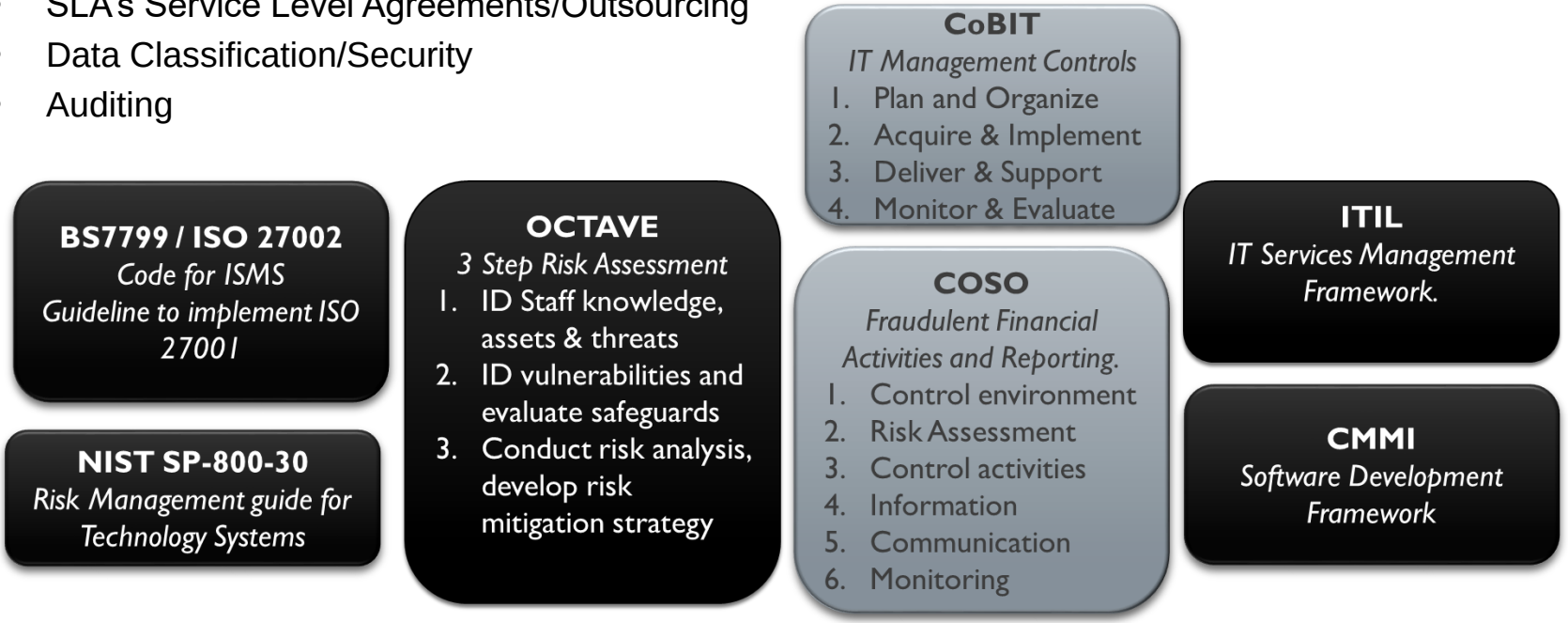
Source : Insider Threat 2018 Report by CA Technologies

Cybersecurity Landscape

Frameworks

Standards to develop Infrastructure Security Management Systems (ISMS). ISMS consists of:

- Roles and Responsibilities
- Policies/Standards/Procedures/Guidelines
- SLA's Service Level Agreements/Outsourcing
- Data Classification/Security
- Auditing



Illustrative Org Structure

Protect	Detect	Recover	Govern
Application Security Access Control	Vulnerability Testing Monitoring Logs	Disaster Recovery Investigations	Policies Training

Legal Remedies - India

- Information Technology Act, 2000 – Primary Act.
- Covers offenses where a computer resource:
  - Is the target of an offense (Hacking)
  - Is used for committing an offense (Cheating, IP Theft)
- Operational Issues:
  - Relevance and admissibility of evidence
  - Gathering evidence – Internal & External
  - Jurisdiction
  - Expertise of investigating officers

Role of Compliance Professionals

Investigations

- Awareness & knowledge of fundamentals
- Act as an interpreter
- Evidentiary rules
- Legal Expertise
- Red Flags

Awareness

- Embed in training & awareness programs
- Reinforcement
- Consistent messaging
- Discipline bad behavior

Collaborate

- Evangelize
- Awareness of risks
- Pitch in with your skills & competencies
- Assess and drive tone & culture