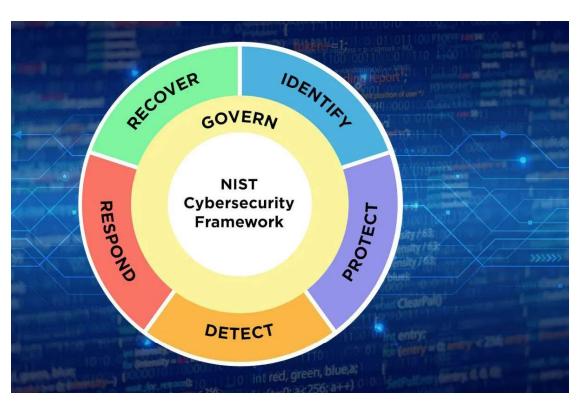
Donald Harriss *NIST PSCR*





Security and Privacy Controls for Information Systems

Don Harriss
NIST PSCR UAS Technical Lead

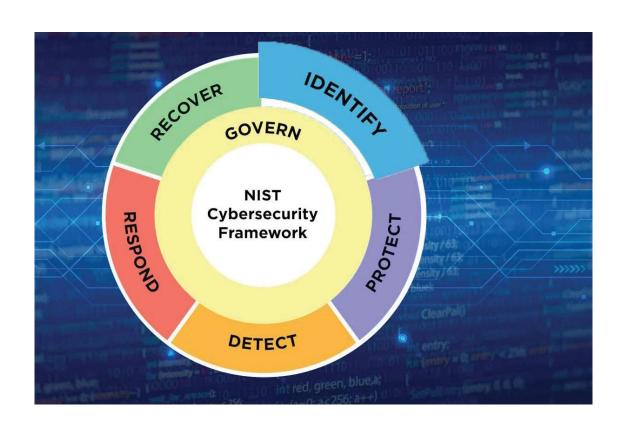


- CFS Functions Correlation to Security and Privacy Controls for Information Systems and Organizations NIST SP 800-53
- Supports the identification of security and privacy controls needed to manage risk
- Meets current and future protection needs
- Identify Protect Recover

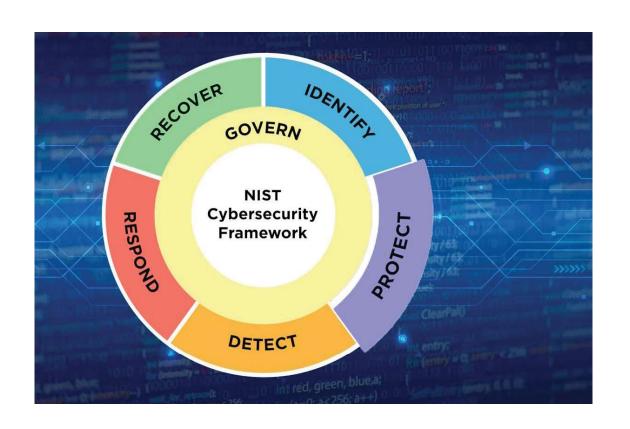
ID	FAMILY	ID	FAMILY
AC	Access Control	<u>PE</u>	Physical and Environmental Protection
<u>AT</u>	Awareness and Training	PL.	Planning
AU	Audit and Accountability	PM	Program Management
<u>CA</u>	Assessment, Authorization, and Monitoring	<u>PS</u>	Personnel Security
CM	Configuration Management	PT	PII Processing and Transparency
<u>CP</u>	Contingency Planning	RA	Risk Assessment
<u>IA</u>	Identification and Authentication	SA	System and Services Acquisition
<u>IR</u>	Incident Response	SC	System and Communications Protection
MA	Maintenance	<u>SI</u>	System and Information Integrity
MP	Media Protection	SR	Supply Chain Risk Management

Security and Privacy Control Families, NIST SP 800-53

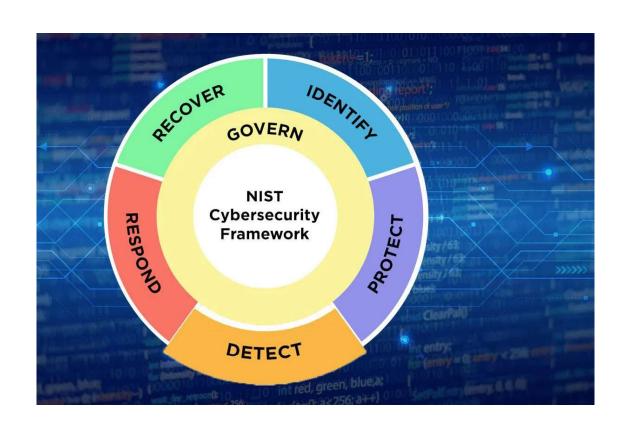
- Each family contains base controls and enhancements to provide greater protection integrity
- A control contains definitions and high-level technical discussions of the control
- Defines implementation role responsibilities and approaches
- Controls are agnostic to specific systems



- Auditing known assets
- Risk Assessment
- Supply Chain Risk Management
- Sensitive Information
- Physical and Cyber Assets
- Improvements
- Contingency Planning



- Access Controls
- Identification and Authentication
- Platform Security
- Data Protection
- Maintenance
- Technology Resilience
- Awareness and Training
- Configuration Management
- System Integrity



- Audit and Accountability
- Authorization and Monitoring
- Event Analysis

Secure Configuration

UAS and AI Implications

- Vetting of applications and software sources
- Hardware and software trusted supply chain
- Secure on-premise and cloud assets
- Secure credentialing databases
- Data protection
- Physical asset security

Al Cybersecurity Applications



Identification of People - Identity Management

Identification of Devices

Credentialing Mechanisms

Federation

- Al is an application that requires securing as well as a tool to provide security
- Al can supplement and provide enhancement for security analyst
- Detect threats
- Al applications still require security and privacy controls



