

Enterprise Cybersecurity Architecture attempts to bring order to chaos, control the things it can, while minimizing impact from risks, threats, vulnerabilities, and exposures.

Enterprise Cybersecurity Architecture requires people, process, and technology to guard against risks, threats, vulnerabilities, and exposures.



People are generally the weakest link within an Enterprise Cybersecurity Architecture.

What is Enterprise Cybersecurity Architecture trying to guard against (not an exhaustive list)?

Espionage	Insider Threats	Equipment Theft	COTS Vulnerabilities	Social Engineering	Malware	Spoofing	Tampering	Repudiation	Information Disclosure	Denial of Service	Elevation of Privileges	APTs
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Ensuring risks, threats, and vulnerabilities do not become an exposure.

If threats materialize can they be stopped within the cybersecurity killchain?

Cybersecurity Killchain

1. Reconnaissance 2. Weaponization 3. Delivery 4. Exploitation 5. Installation 6. Command & Control 7. Actions on Objectives

Can tooling, incident response, and SOC-Detect, Identify, Respond and Correct? Would anyone know?

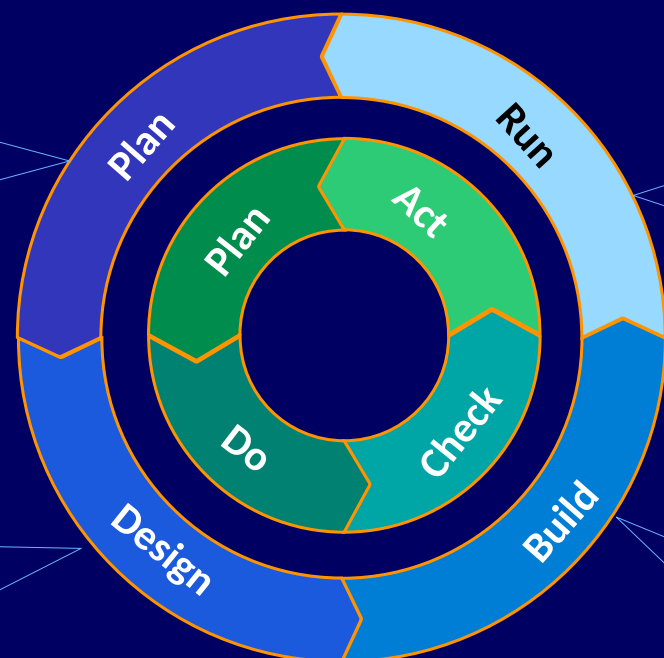
Where do Enterprise Cybersecurity Architecture Expectations Lead (not an exhaustive list)?

Disaster Recovery	Business Continuity	Personnel Security	Physical Security	IoT Security	ICS/SCADA Security	Application Security	System Security	Database Security	Information Security	Mobile Security	Network Security	Cloud Security	SecOps
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The Expectations of the Enterprise Cybersecurity Architecture Lifecycle

Strategy
Governance
Portfolio Management
Program Management
Project Management
Cost/Benefit Analysis
Value Proposition
Value Chain
Budgets/Forecast
ROI/TCO

Requirements Development
Control Selection
Gap Analysis
Diagrams/Models
Process Development
Secure Design
Risk Assessment
Risk Analysis
Threat Modeling



Secure Operations
Continuous Monitoring
Measurements/Metrics
Dashboards
Continuous Improvement
Red/Blue Team Exercises
Tiger Team Exercises
Purple Team Exercises
Threat Intelligence
Incident Response
Decommission

Secure Development
Secure Implementation
Secure Configuration
Secure Deployment
Vulnerability Assessment
SAST/DAST
Penetration Testing

Cost Efficiency

Operational Efficiency

Confidentiality

Integrity

Availability

Authentication

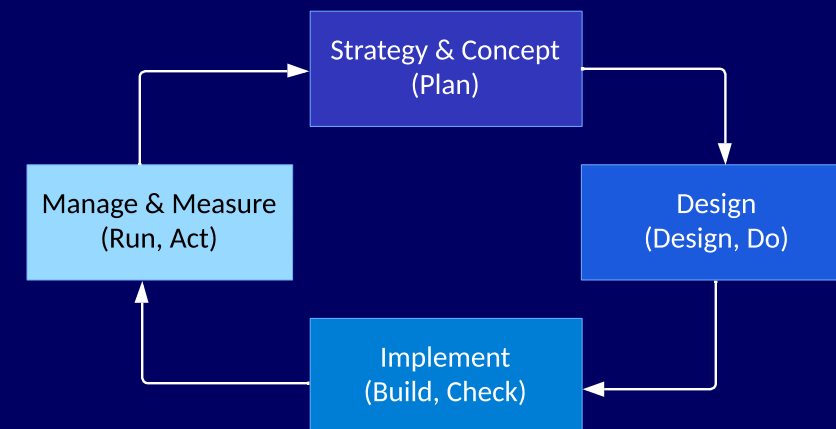
Authorization

Auditing

Non-Repudiation

Privacy

SABSA Lifecycle



Do you know where you are (current state)?
Do you know where you want to be (target state)?
Do you know how you're going to get there (transition state[s])?
Do you fully understand what you're trying to protect?
Do you have leadership support, the budget and the people to get there?