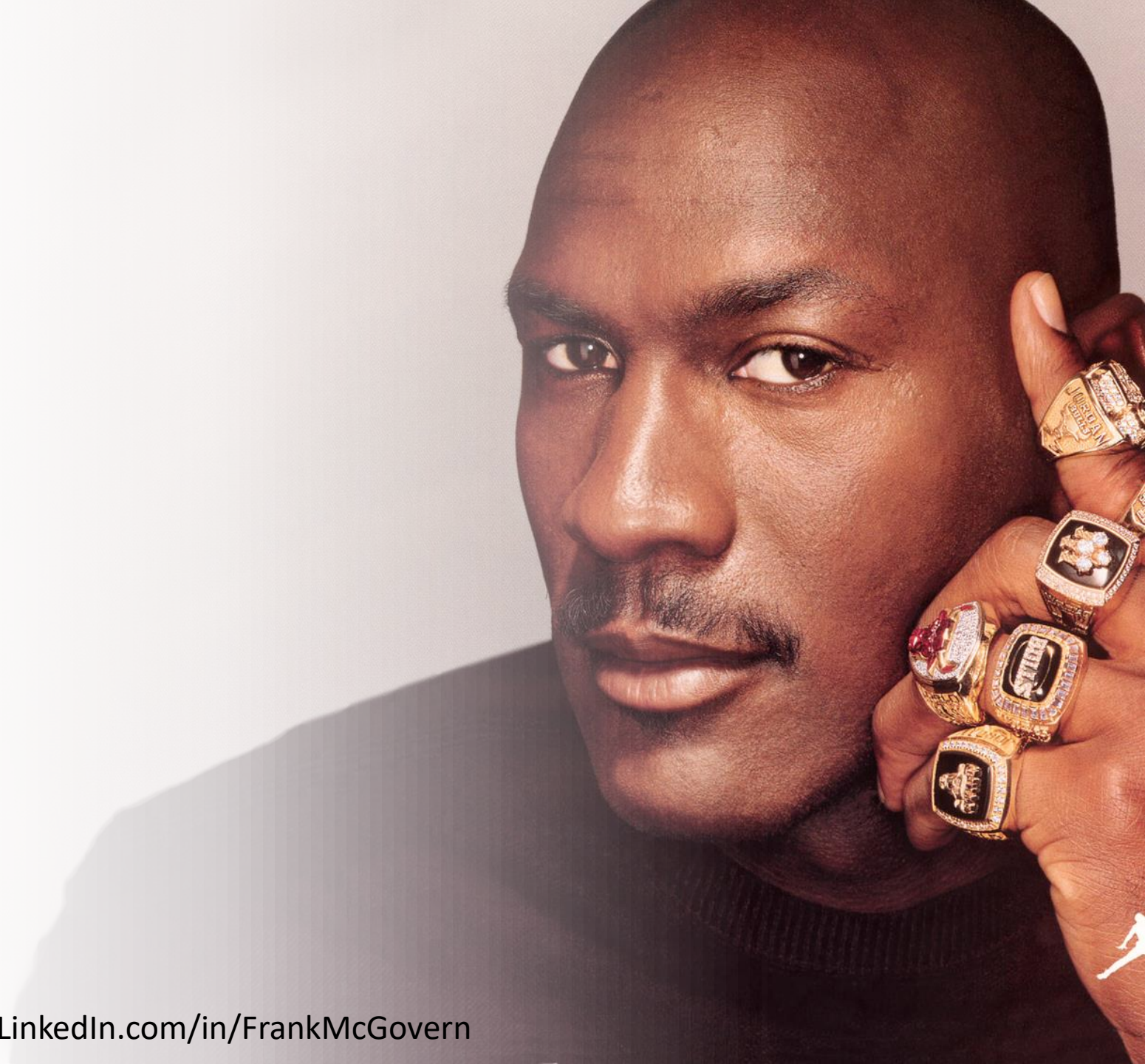


Writing Cybersecurity Policies: You Don't Have to be Michael Jordan

Frank McGovern



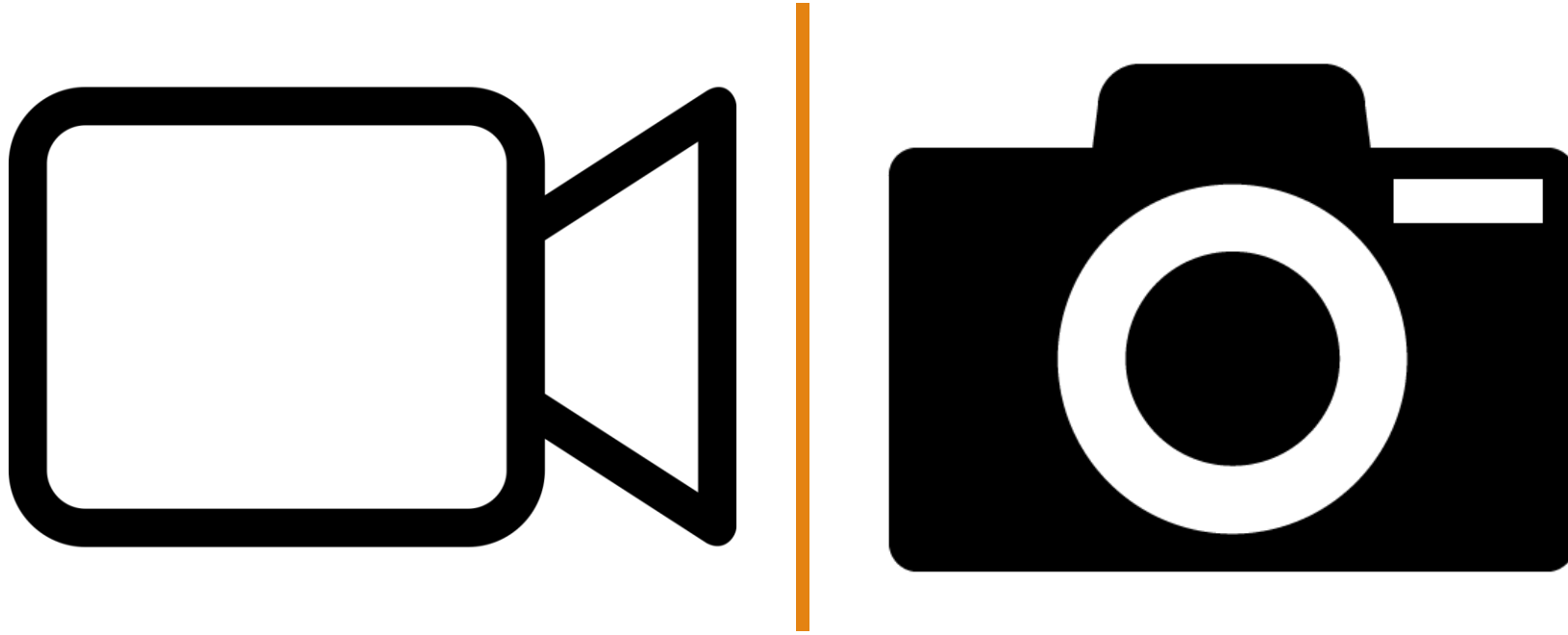
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Photos and Recording Allowed



whoami

Frank McGovern – Chicago, IL
CISSP, CISM, CSM

Former USMC 0231

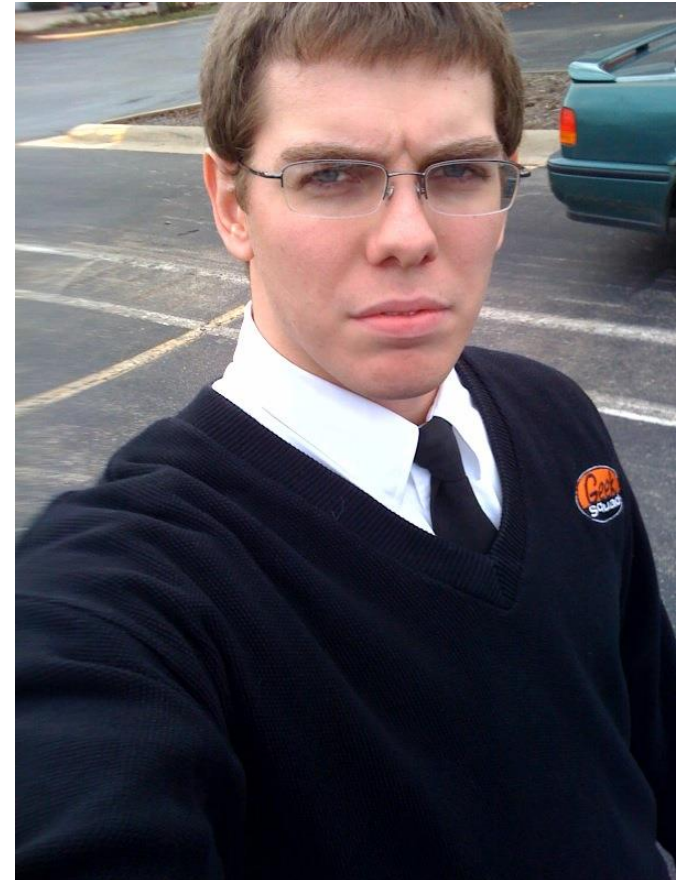
Walsh Construction: 2010 to 2020

- Help Desk -> Infrastructure Engineer -> Network Security Engineer -> Information Security Engineer -> Sr. Information Security Engineer

StoneX: 2020 to Present

- Cybersecurity Architect

Blue Team Con Founder





Why?

Documentation.

Documentation.

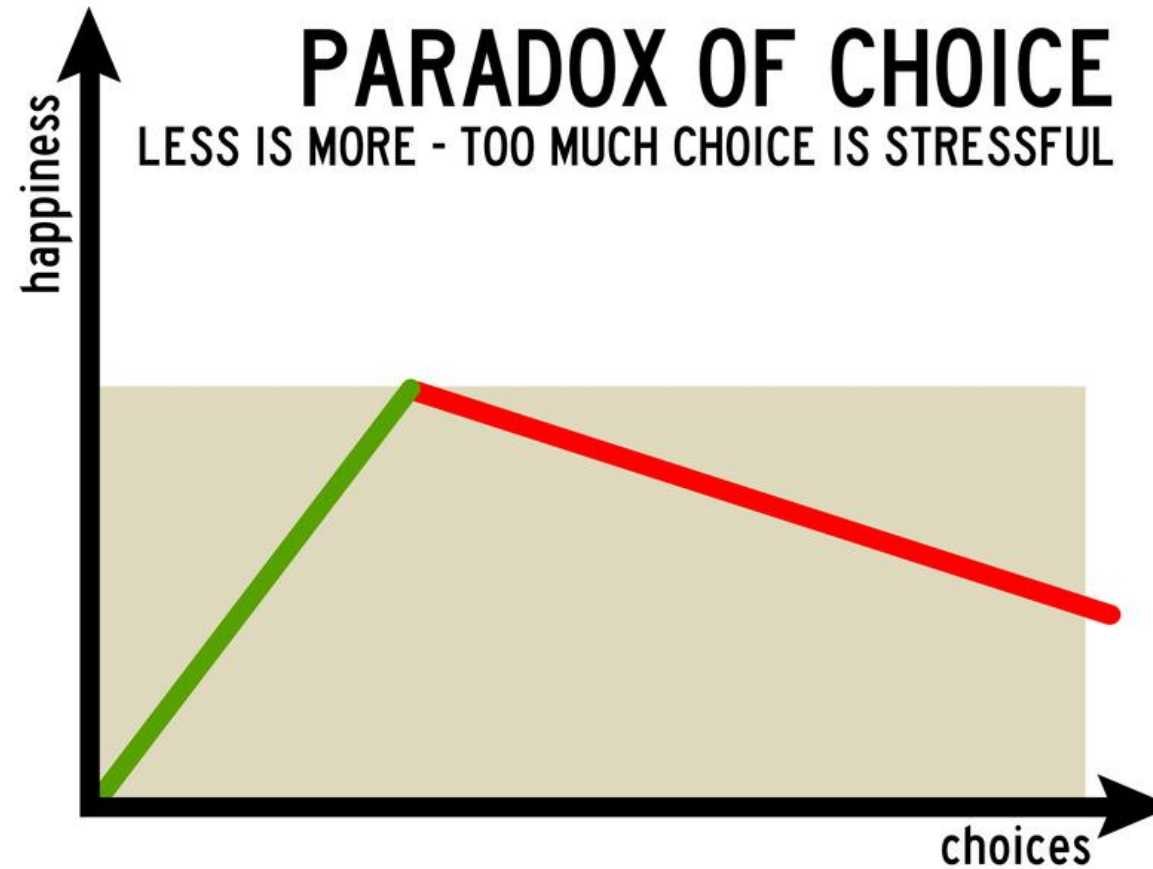
Documentation.



Terminology



Analysis Paralysis

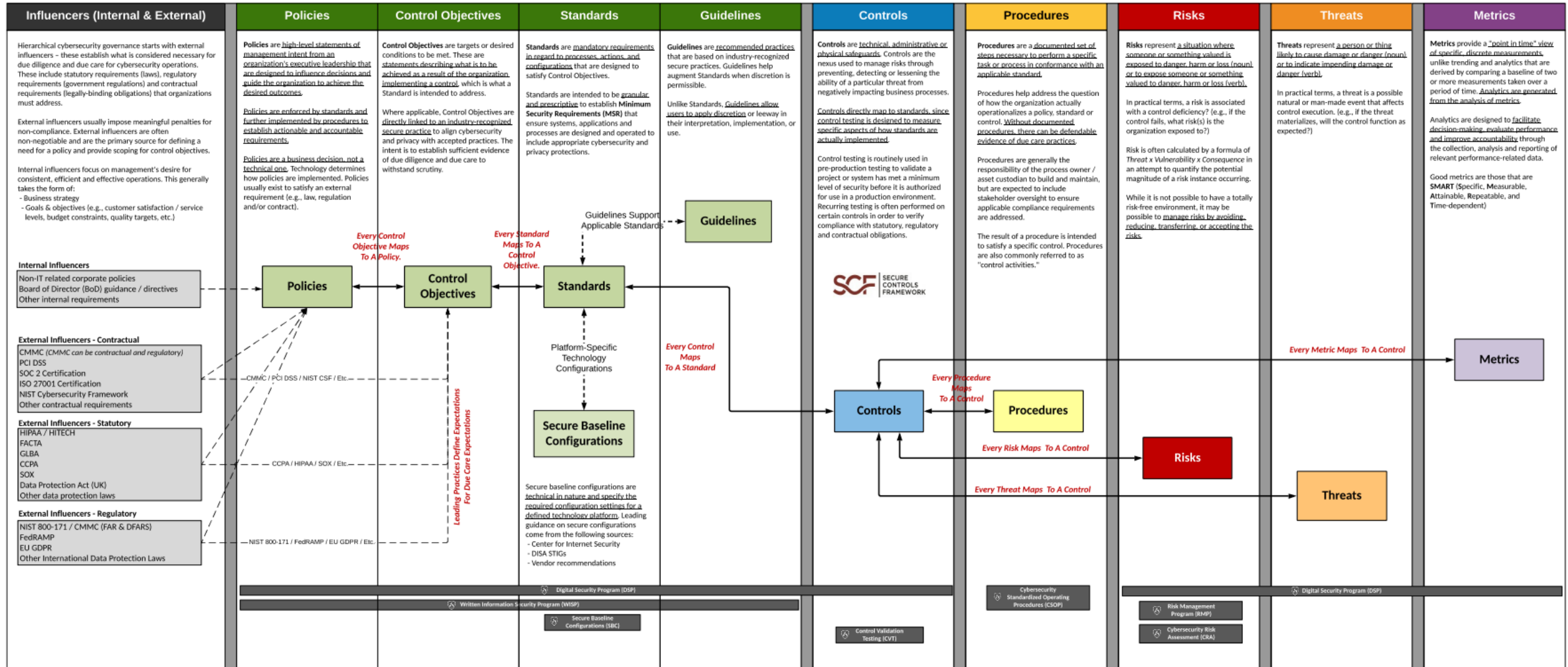




Understanding The Hierarchical Nature of Cybersecurity & Privacy Documentation

Version 2021.1

The ComplianceForge Hierarchical Cybersecurity Governance Framework™ (HCGF) takes a comprehensive view towards the necessary documentation components that are key to being able to demonstrate evidence of due diligence and due care. This framework addresses the interconnectivity of policies, control objectives, standards, guidelines, controls, risks, procedures & metrics. The Secure Controls Framework (SCF) fits into this model by providing the necessary cybersecurity and privacy controls an organization needs to implement to stay both secure and compliant. ComplianceForge has simplified the concept of the hierarchical nature of cybersecurity and privacy documentation in the following diagram to demonstrate the unique nature of these components, as well as the dependencies that exist:



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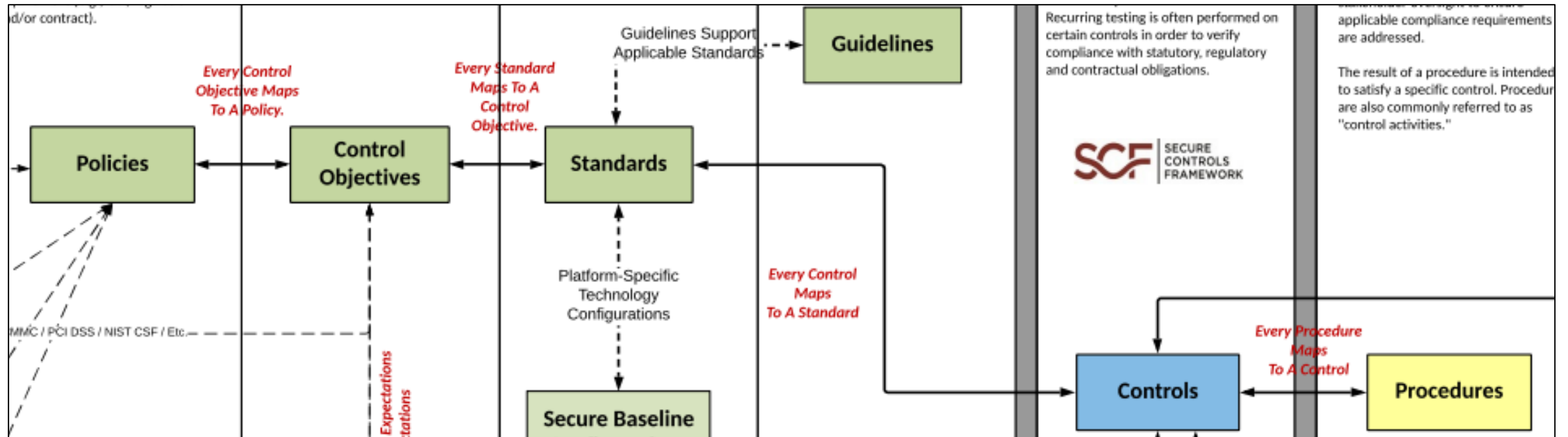


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The Basics



GUIDELINE

[additional, recommended guidance that is not mandatory]

PROCEDURE / CONTROL ACTIVITY

[defined practices / steps to implement standards]

STANDARD

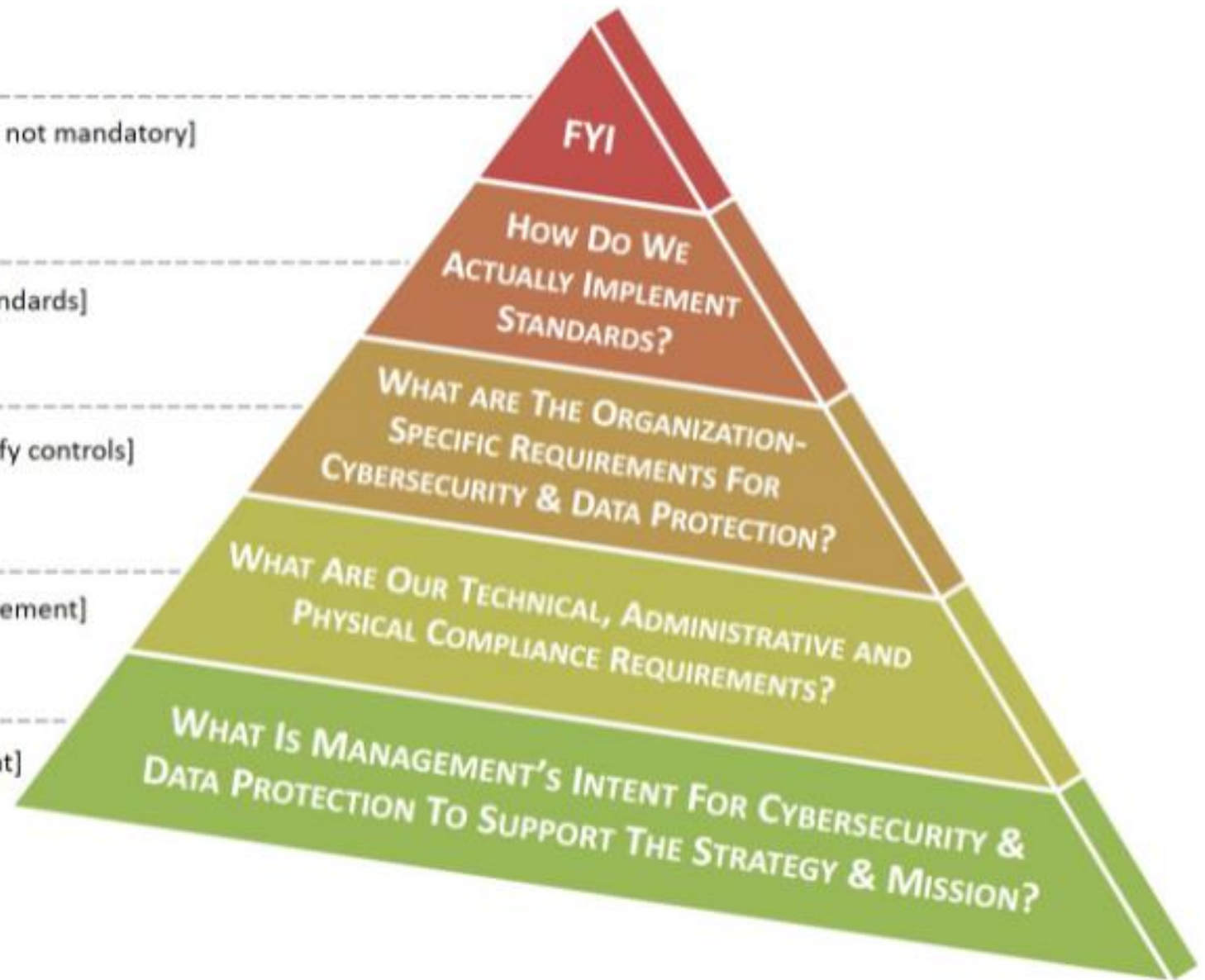
[organization-specific requirements to satisfy controls]

CONTROL / CONTROL OBJECTIVE

[technical, administrative or physical requirement]

POLICY

[high-level statement of management intent]





Example – Auto Detailing

Policy

- All vehicles will be properly washed prior to customer delivery.

Standards

- Every vehicle will follow the entire 21-step wash process.
- Wheels will be washed with Sonax Full Effect and scrubbed with a Wheel Woolie Brush.
- A foam cannon will be used with Feynlab Pure Wash (2021 Edition) on all exterior panels.

Controls

- Cameras will monitor the wash bay. (Physical)
- All employees will be taught the proper 21-step wash process by a senior detailer. (Administrative)



Example - IAM

Policy

- All laptops issued by the organization must have identity and access controls in place.

Standards

- All laptops are configured to ensure complex, 15-character passwords using Active Directory.
- All laptops are fitted with a biometric reader and a TPM 1.2 chip to store those biometrics.

Controls

- Group Policy is set to require the 10-character password. (Technical)
- New laptops are purchased with biometric reader and TPM 1.2 chip. (Administrative)





Policy Timeline

- Current State ($n+1$)
- Future State ($n+5$)



Recommended Policy Building Process

1. Follow a Framework – *NIST CSF*
2. Follow a Standard that has Control Objectives – *NIST 800-53*
3. Solo Write Policies
4. Collaborate those Policies
5. Obtain Senior Leadership Approval



Guided Example – Control Objective

NIST 800-53 #AC-17

The organization:

- Documents allowed methods of remote access to the system;
- Establishes usage restrictions and implementation guidance for each allowed remote access method;
- Monitors for unauthorized remote access to the system;
- Authorizes remote access to the system prior to connection; and
- Enforces requirements for remote connections to the system.



Guided Example – Policies

- Remote access will be allowed where there is a business need through defined methods.
- Remote access users will agree to an Acceptable Use Policy.
- Remote access users will have an organized managed individual account.
- Remote access systems will utilize this account for access.
- Remote access solutions will contain proper logging.





...and I took that personally




Compliance Tracking

Relevant NIST 800-53 Revision 4 Security Controls		
NIST 800-53 Control Objective	Reasonably-Expected Criteria To Address NIST 800-53 Control Objective	Applicable Compliance Guidance
The organization: - Documents allowed methods of remote access to the system; - Establishes usage restrictions and implementation guidance for each allowed remote access method; - Monitors for unauthorized remote access to the system; - Authorizes remote access to the system prior to connection; and - Enforces requirements for remote connections to the system.	Remote access will be allowed where there is a business need through defined methods.	- Solutions will be encrypted from point-to-point. - Organization owned devices will utilize DirectAccess or F5. - Non-Organization devices will utilize Global Protect.
	Remote access users will agree to an Acceptable Use Policy.	- Acceptable Use Policy
	- Remote access users will have an organized managed individual account. - Remote access systems will utilize this account for access.	- Accounts will exist per individual that must be used to identify each user doing remote access functions.
	Remote access solutions will contain proper logging.	Any remote access solution will contain granular logging. At minimum, log off and log on must be tracked.

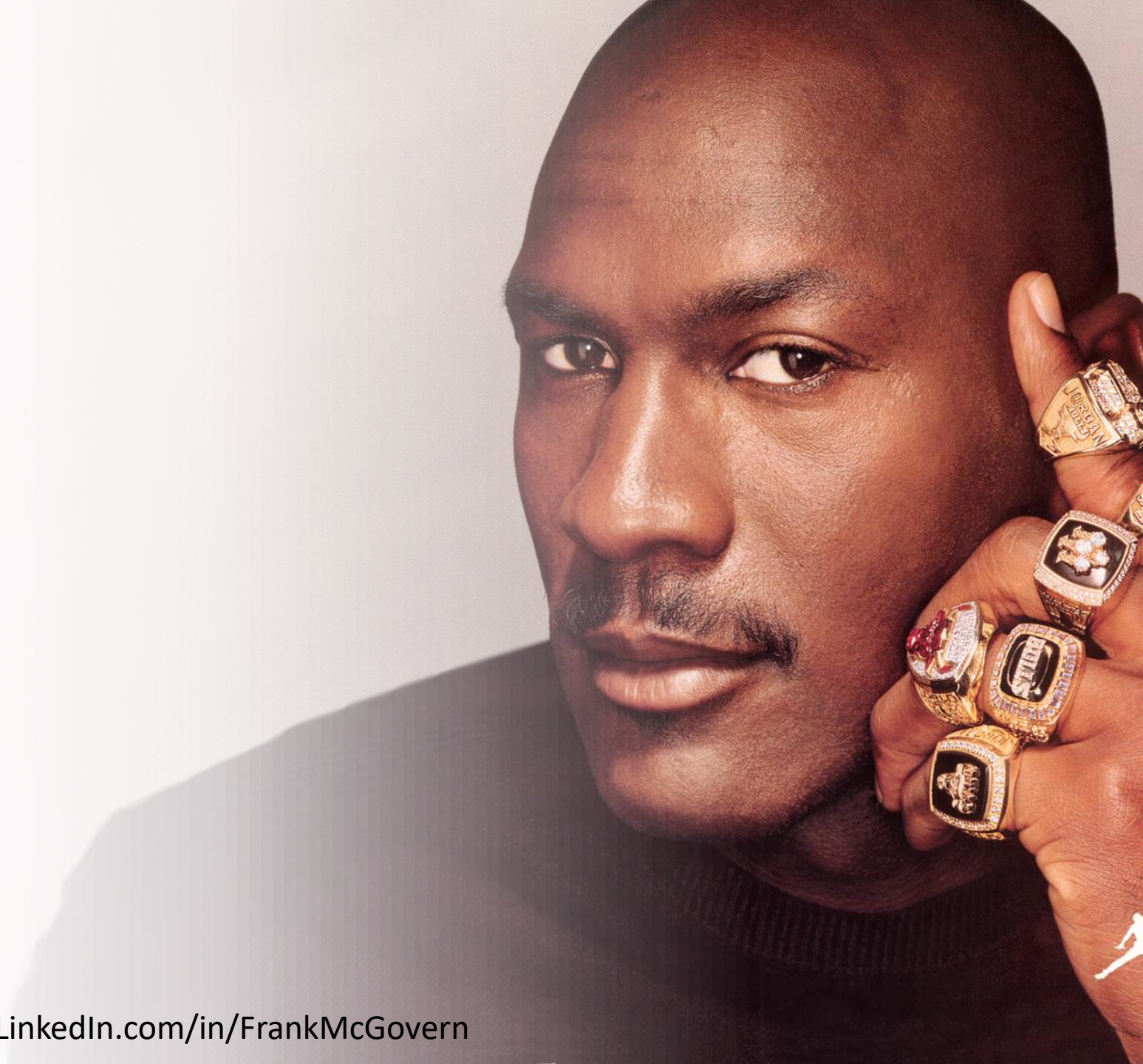
Methods To Address Requirement				Compliance Status	Non-Compliance Reason (if applicable)	Deviation Justification (if applicable)
GPO	Policies & Standards	Documented Process / SOP	Technology Considerations			
No	Yes	No	- VPN Solution	Compliant	Not Applicable	
No	Yes	No	N/A	Partially-Compliant	Business	This was done a lot when adding DA, but need to vet that all users are agreeing to it to cover. Build into new AUP.
No	Yes	No	- Active Directory	Compliant	Business	
No	Yes	No	- VPN Solution	Compliant	Not Applicable	
No	No	No	N/A	Unknown	Unknown	





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