

Conf: 42 Golang  
June 24, 2021

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Gordon founded Stone Creek Coaching after coaching CISOs, CTOs, & CIOs for the last 15 years.

He loves to give back to the technical community, he's been so fortunate to be a part of for over 40 years, by helping technical people discover their potential to become technical leaders.

Gordon's career includes programming, systems engineering, network engineering, enterprise information architecture, project management, information security, vendor management, risk management, and process improvement.

Specializing in cybersecurity, high-performance teaming, and coaching C-Level personnel and the organizations they serve.

He is frequently asked to speak at industry events on cybersecurity, IT operations management and organizational behavior. Gordon has a BBA in Finance from the University of Oklahoma and an MBA from West Texas A&M University.





# Every CISO's First 90 days

## Achieving Lasting Success as CISO

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# Agenda

You wanted to be a CISO?

30-60-90 Day Plans

You're a CISO now; what should you be doing?

Creating your MAP

Get your head in the game

Where to next?





# This is a Rockstar

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# This is a CISO

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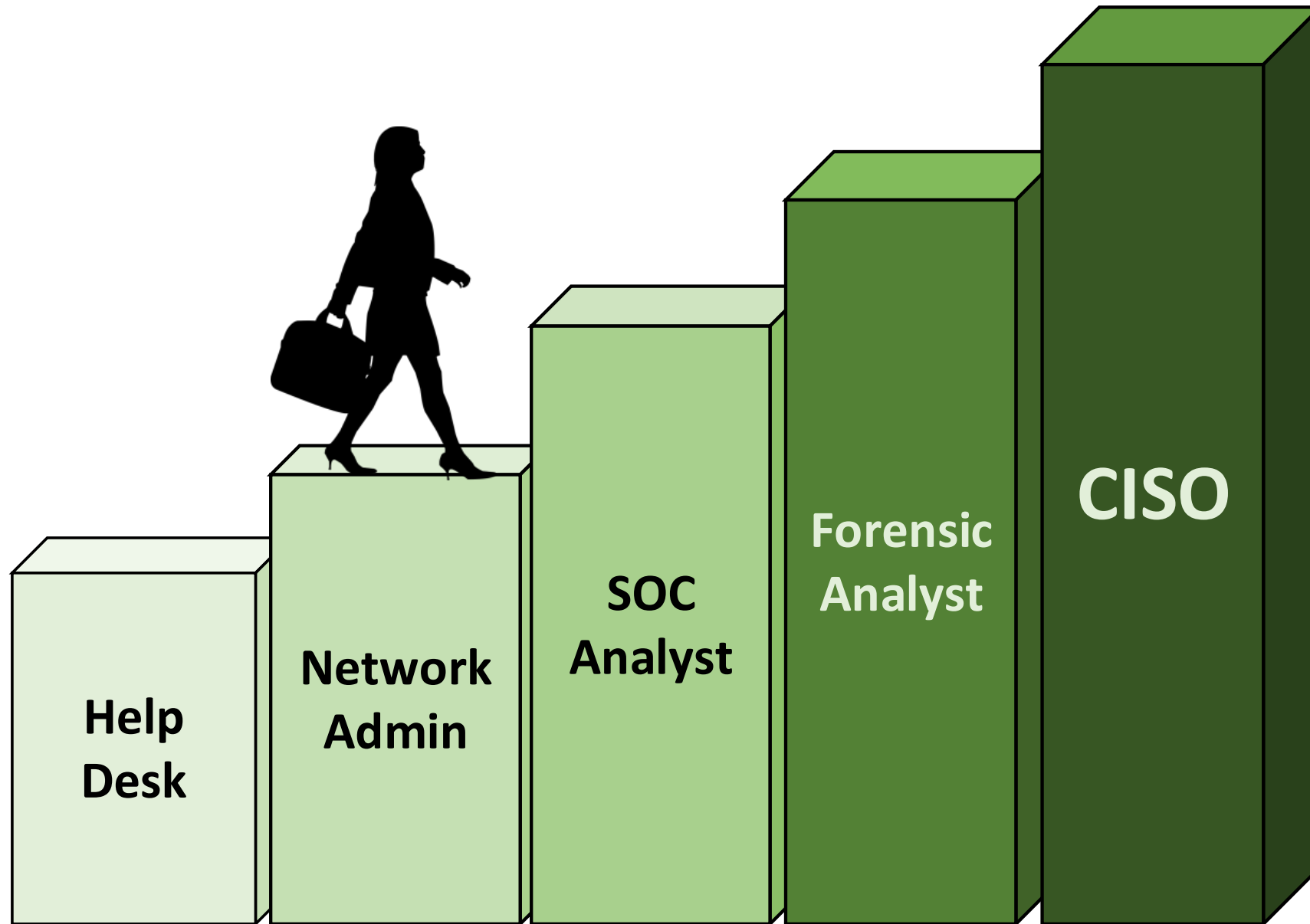


# MAP

Measure • Assess • Plan

- Measure what's in place
- Assess the gap - what's needed
- Plan the work – work the plan





# Nirvana for a CISO hinges on 9 skills

1. The tone from the top
2. Governance | Risk | Compliance
3. The KISS principle
4. Employee ownership
5. Solving problems - not buying new tech
6. Finding your company rhythm
7. Due diligence
8. Collaboration
9. Automating everything (as possible)

# What type of CISO are you?

## *Technical vs. Managerial | Hands-On vs. Executive*

- ✧ Technical-oriented CISO (aka TISO)
- ✧ Policy-oriented CISO (aka BISO)
- ✧ Strategically-oriented CISO (aka SISO)



# MAP

Measure • Assess • Plan

## Yourself

- Agonizing self appraisal
- What are you?



## Who are you?

Carry out a self-assessment to know your personality makeup, temperament type, interests, skills, abilities, core competence, values, likes, dislikes, strengths and weaknesses.

## Where are you going?

Based on the understanding of yourself, identify career areas that fit who you are.

## How do you get there?

Having identified what may interest you, develop a plan that will help you start and ascend on your career ladder.

## Take Action

Set career goals with timelines and milestones. To know what specific career field fits you most, you may test the waters by volunteering, job shadowing, internship or starting a business.

## Evaluate & Review

Evaluate your actions and progress. Are you on track? Have you veered off? Review your actions so you can get back on track or do you need a total change your earlier career path?



Every pro was  
once an amateur.

Every expert was  
once a beginner.

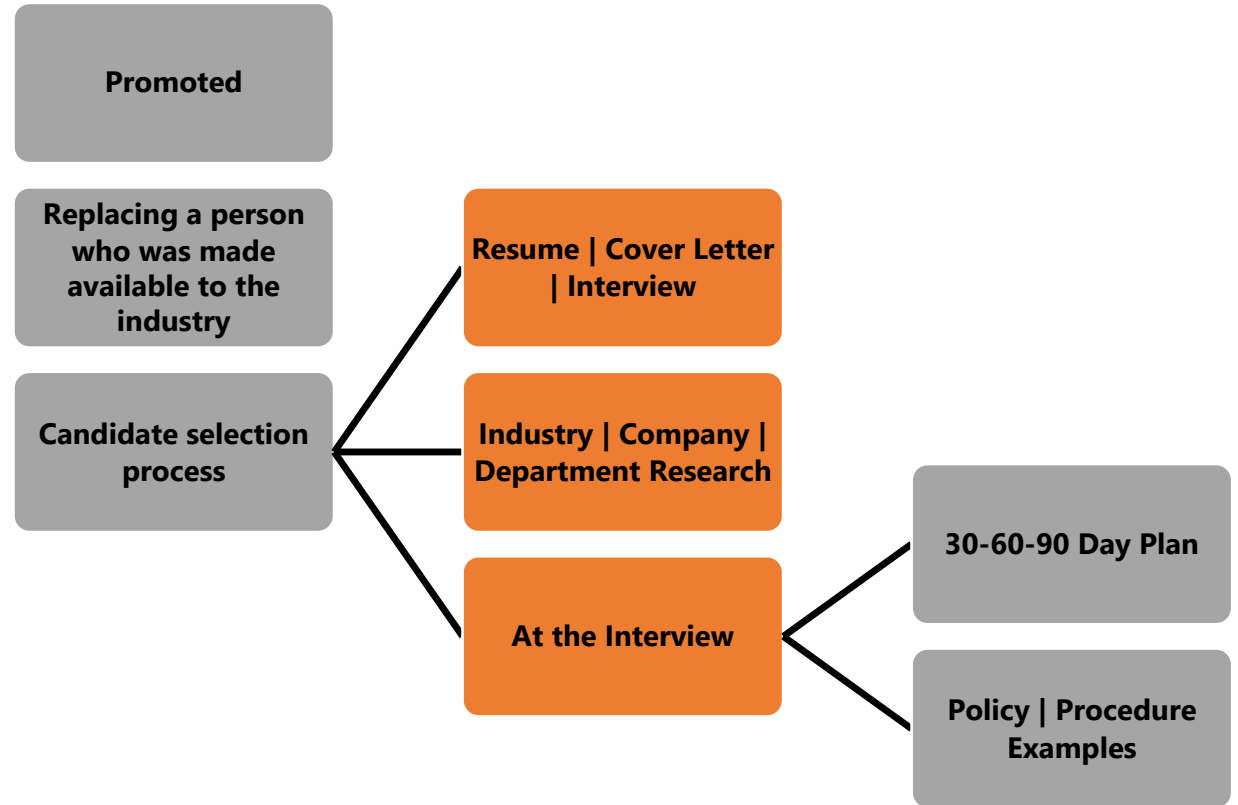


# Are you ready for the race?

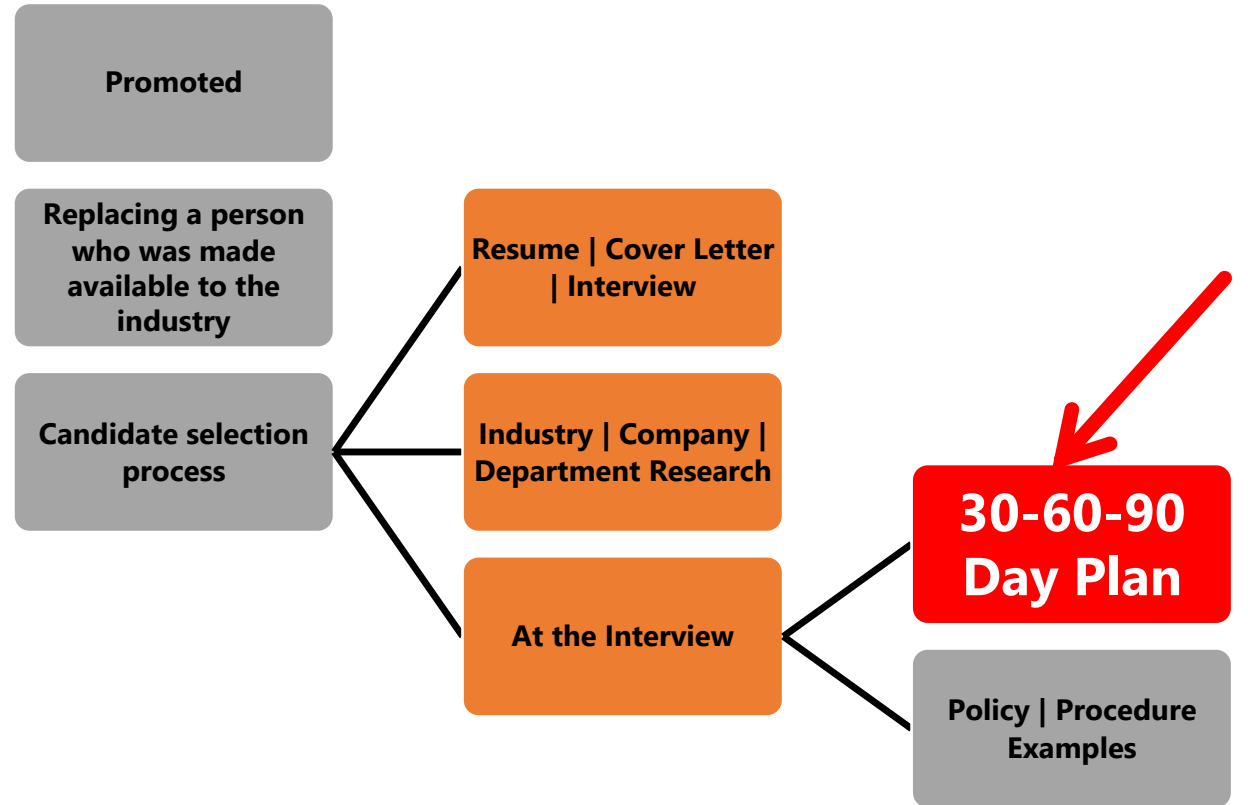




# How did you get the job?



# How did you get the job?





## Prep

- 30-60-90 day plan
- Manager's expectations
- Org chart
- Industry R&D
- Company R&D
- Department R&D

## Measure

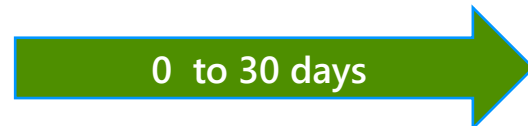
- Strategic & tactical plans (Policies & Procedures)
- Budget
- GRC (P&P Analysis)
- Enterprise Information Architecture
- Assets being managed
- Assets unmanaged
- Vulnerability Assessment Processes
- Personnel skill set
- Access Controls
- Interview key stakeholders
- Interview Internal Audit, external audit & Compliance

## Assess

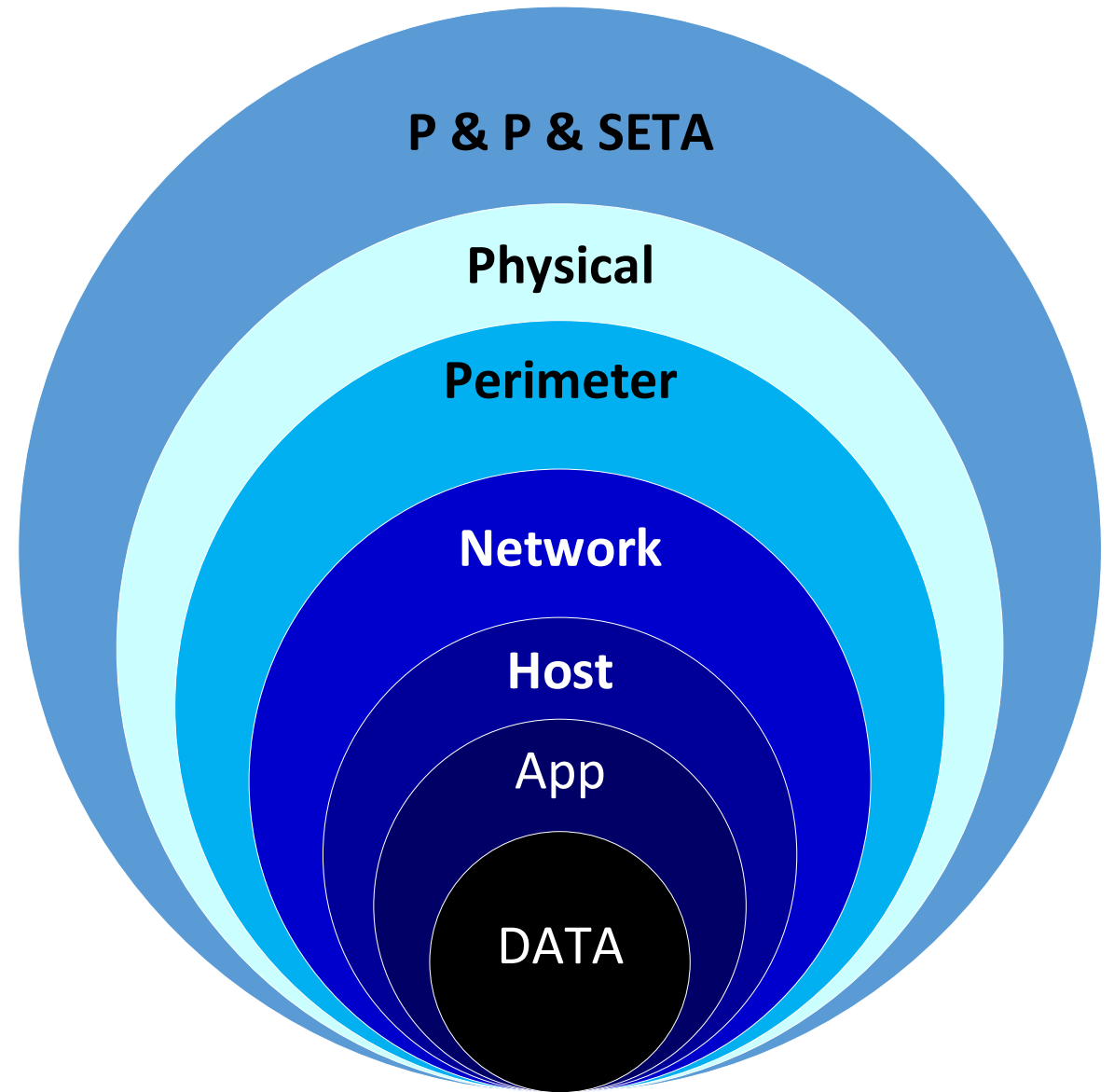
- Enterprise cybersecurity architecture vs. baseline
- Current training plan(s)
- Software development team(s)
- DevOps Team(s)
- How the organization is meeting PCI, HIPAA, CCPA, NTDFS
- Network security audit results
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- Physical security
- Assess the Business Continuity Management Plan
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## Plan

- Create Corporate Information Protection Plan
- Create Information Security Strategic Plan for the coming year
- Build you
- Social your roadmap
- Plan test of RTO, RPO, and MAD
- Define the recovery of your people, facilities and systems for every LOB
- Energize the SETA program
- Perform a gap assessment on all aspects of information security
- Draft ransomware vulnerability report



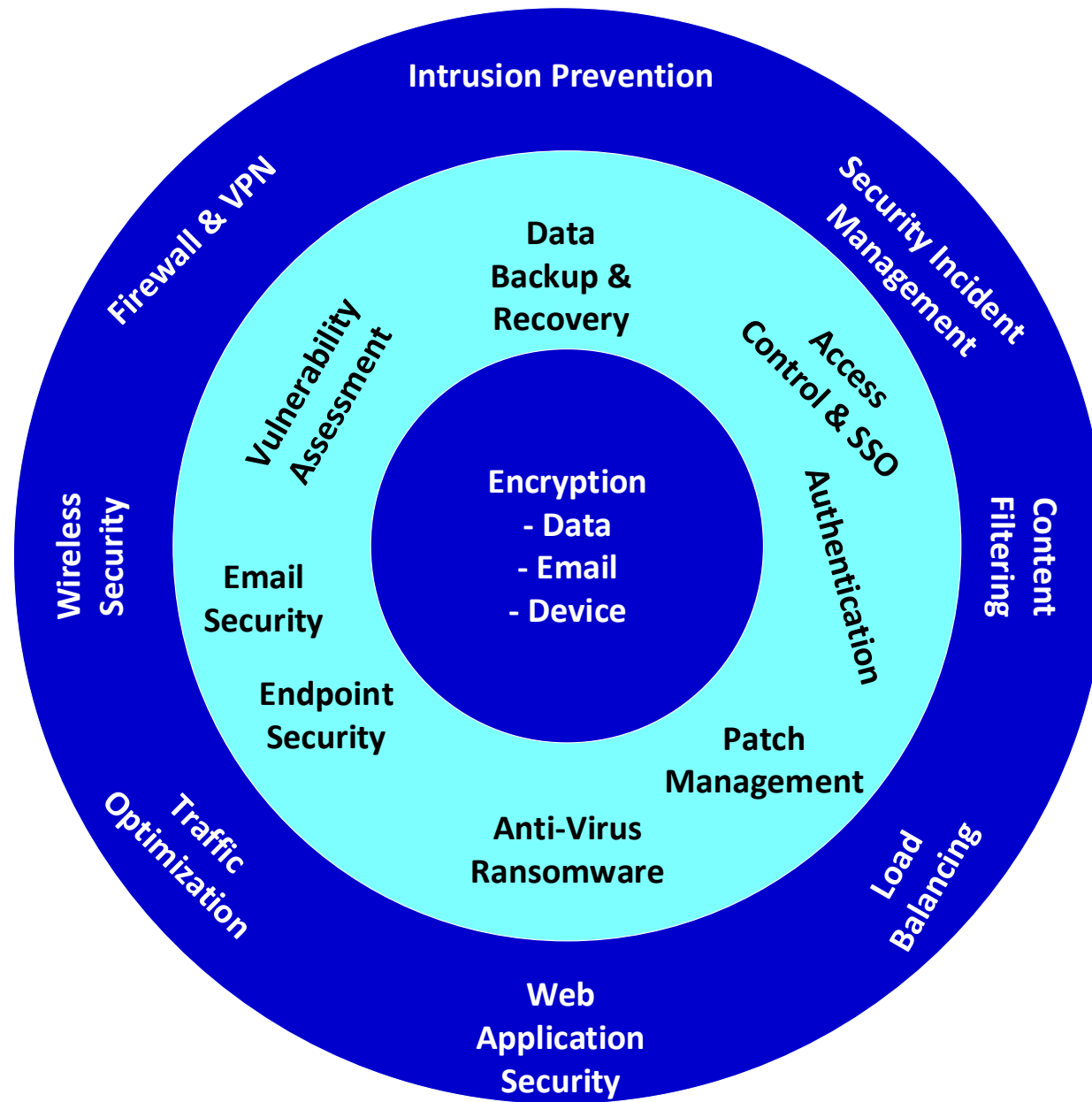
**We all start at  
the same place,  
with the same  
plan.**





# Overlapping Layers

- A standard approach circa 2000 - 2017
- Today we want to see the AI inside!



# Cybersecurity is complex today



Agile



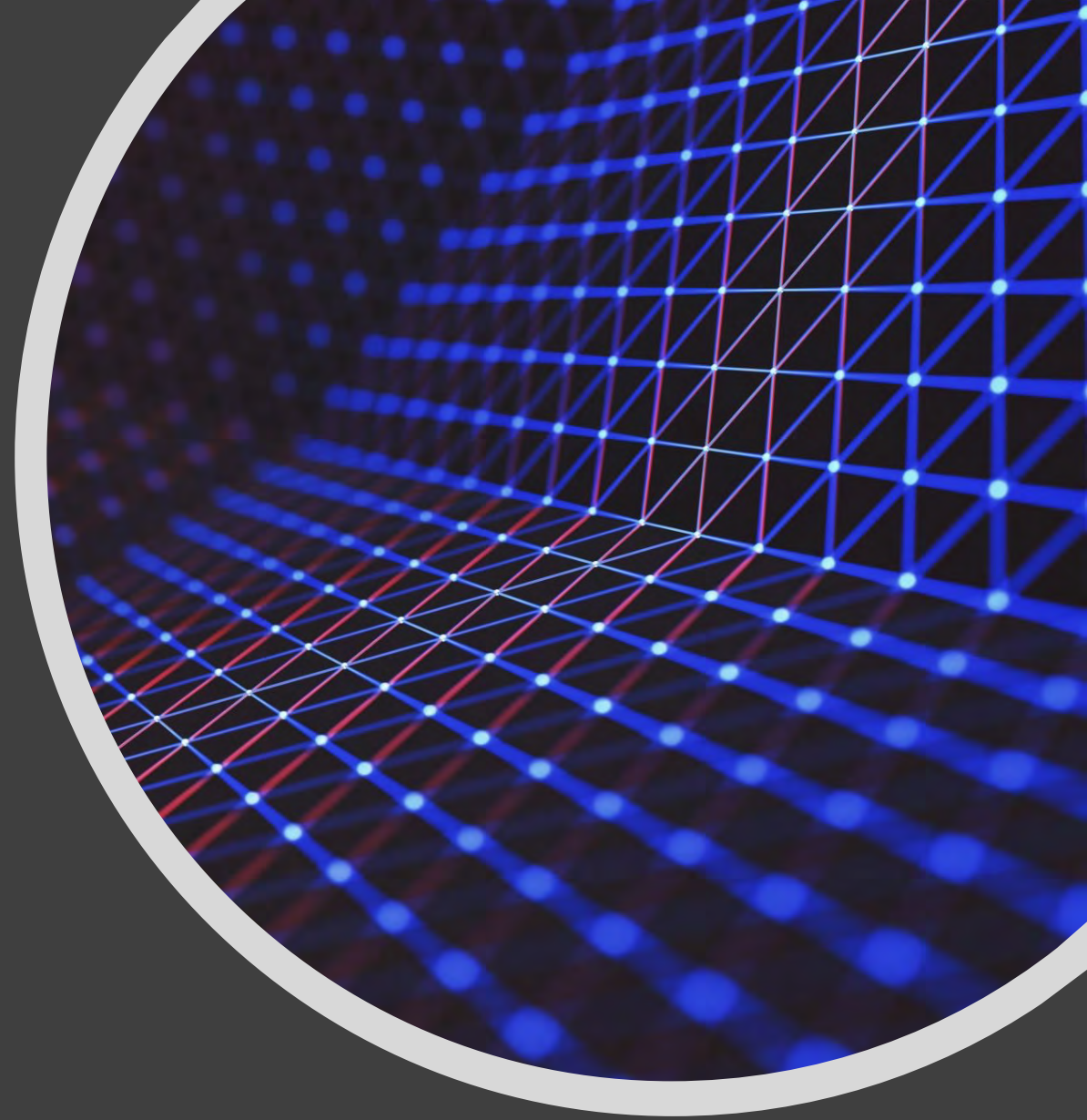
DevOps



Mobile



Websites are  
our busiest  
locations



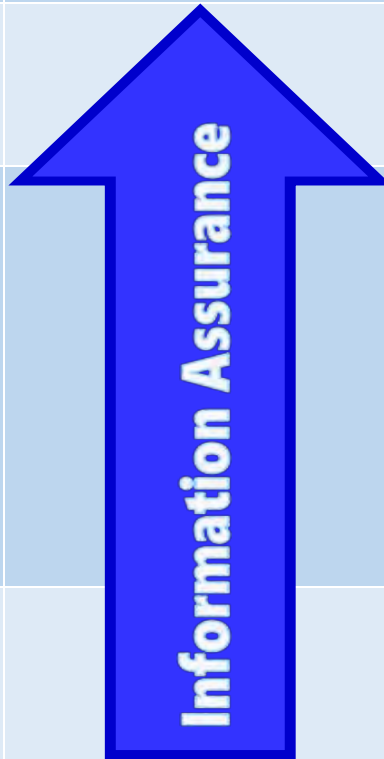
# CISO Skillset

1. Security Program Creation, Management, and Operations
2. Information Security Core Concepts (our domains)
3. Planning, Finance, Risk Management & Vendor Management
4. Governance, Risk & Compliance (GRC)  
*Mind your 5 Ps*
5. IT & IS Management Controls and Auditing
6. Technical Acumen

# Assessing the Organization

- Organizational Maturity
- Operational Readiness



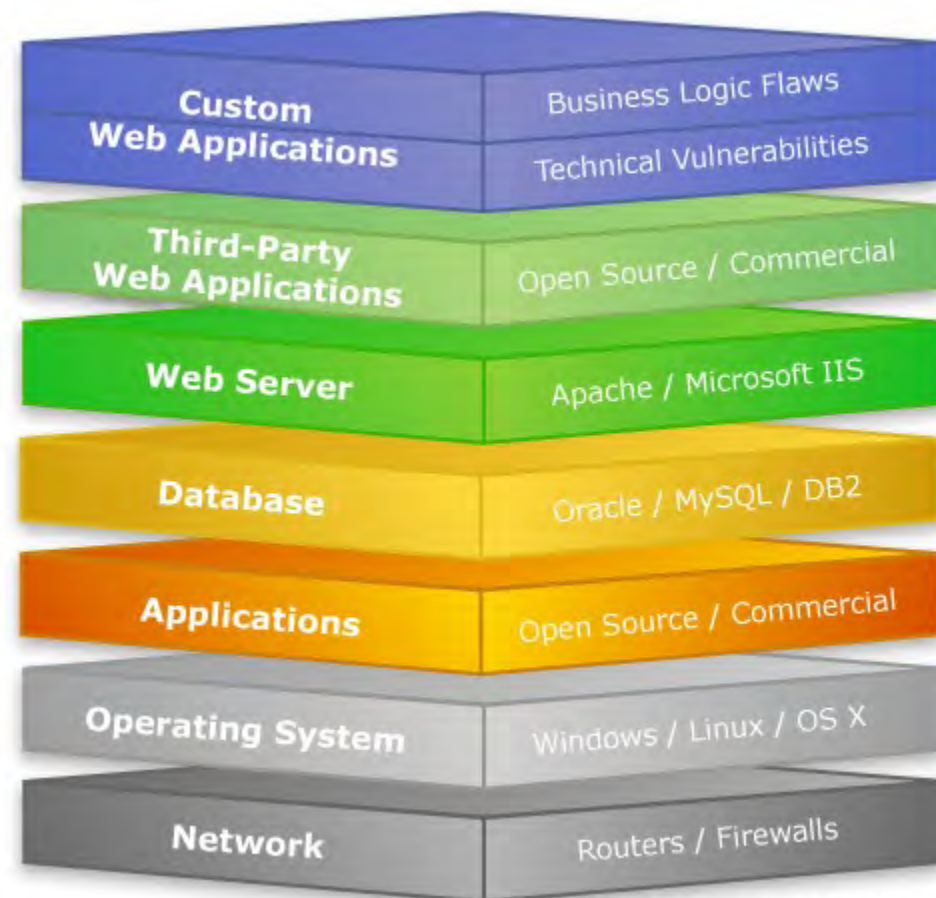
Level	Focus	Process Area	Result
5	Continually optimizing organizational competency	<ul style="list-style-type: none"> <li>- Organizational Innovation and deployment</li> <li>- Causal Analysis and Resolution</li> <li>- Change management competency is evident in all levels of the organization and is part of the organization's intellectual property and competitive edge.</li> </ul>	Highest Level of: <ul style="list-style-type: none"> <li>• cyber assurance</li> <li>• productivity</li> <li>• Quality</li> <li>• Responsiveness &amp;</li> <li>• Profitability</li> </ul>
4	Quantitatively managed organizational standards	<ul style="list-style-type: none"> <li>- Organizational process performance</li> <li>- Quantitative project management</li> <li>- Organization-wide standards and methods are broadly deployed for managing and leading change</li> </ul>	
3	Defined processes & multiple project capability	<ul style="list-style-type: none"> <li>- Requirements Development</li> <li>- Technical solutions</li> <li>- Product integration</li> <li>- Verification</li> <li>- Validation</li> <li>- Organizational process focus &amp; definition</li> <li>- Organizational Training</li> <li>- Integrated Project Management</li> <li>- Risk Management</li> <li>- Decision Analysis and Resolution</li> <li>- Comprehensive approach for managing change is being applied in multiple projects</li> </ul>	
2	Managed but isolated projects	<ul style="list-style-type: none"> <li>- Requirements management</li> <li>- Project planning, monitoring &amp; control</li> <li>- Supplier agreement management</li> <li>- Quantitative measurement and analysis</li> <li>- Process &amp; product quality assurance</li> <li>- Configuration and change management are applied in isolated projects</li> </ul>	
1	Initial stage ad hoc or absent <ul style="list-style-type: none"> <li>• planning</li> <li>• organization</li> <li>• control</li> </ul>	<ul style="list-style-type: none"> <li>- Competent People and Heroics</li> <li>- Little or no change management applied</li> </ul>	Highest rate of: <ul style="list-style-type: none"> <li>• project failure</li> <li>• turnover</li> <li>• loss</li> </ul> Lowest Level of: <ul style="list-style-type: none"> <li>• productivity</li> <li>• quality</li> </ul>

# Scalability = Economic Flexibility

Scalability is the ability to adapt the size of the infrastructure to the ever-changing needs of the business.

Technology must be able to be expanded without the need for a forklift upgrade and should be able to scale back as needed.

Cybersecurity must maintain the CIA triad during the waxing or waning of the business.



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# One size does not fit all....



[CREDIT: DFWHC Foundation](#)

# 4 Points of Alignment

Functionality

Economic

Talent

Equipment | Existing or New

Functionaity

# Cybersecurity Road Map Artifacts

- Threat Hunting
- Log Aggregation
- Firewall Clustering
- Artificial Intelligence
- User Behavior Analytics
- Vulnerability Management
- Security Research
- Incident Response
- Forensics
- Training & Cross-training

# Network & Endpoint Defenses

Are we monitoring multiple  
layers of security?

- Firewalls
- Data Loss Protection
- Spam Filtering
- Antivirus
- Threat Emulation
- HTTPS Inspection
- Bot Protection
- Application Control
- URL Filtering



# Is it enough?

- Nothing is Foolproof
- There is no magic bullet
- With time and money, anything can be breached
- Users make mistakes
- Vendors make mistakes

# **What we don't see can kill us**

- **Brute force attacks on all assets**
- **Brute force on local accounts**
- **Detection evasion – local event log deletion**
- **Privilege escalation**
- **Lateral movement**
- **New local user accounts created**
- **Protocol poisoning**

# How do we gain insight?

- Artificial Intelligence?
- Machine Learning?
- Cluster Algorithms?
- Additional Staff?
- Specialized Applications?

# **AI and Behavioral Analytics**

- **Learns what your network traffic looks like**
- **Connects the dots from all the, many, many logs**
- **Detects the anomalies that look like legitimate traffic**
- **Exposes intruders**
- **We see all the water molecules in the flowing river**

# Use the AI Inside

- Scans our network for all devices
- Detects new devices
- Performs vulnerability assessments on those devices
- Advises us of those vulnerabilities, and the context in which they are a threat to our organization
- Creates remediation workflows and tracking

# Benefits?

- **Keeps vulnerable systems on our radar**
- **Vulnerability notifications**
- **Remediation tasks are assigned to system owners**
- **Track remediation progress**
- **Makes vulnerability management workable**
- **Decreases attack surface**





A CISO's success hinges on the success of the cybersecurity *team* monitoring the central nervous system of the organization and reporting its findings to senior management and the board.





# Communication vs. Speculation

# IT Governance

IT Executive Board - President's Cabinet

IT Strategic Advisory Committee

Accessibility & Compliance

Area Technology Officers

IT Assessment

Business Intelligence

IT Communications

Enterprise Applications

IT Infrastructure

IT Procurement & Contracts

Instructional Technology

Research Computing

Security & Compliance

Student Experience

IT Strategic Planning  
Task Force

Project Request and Project Prioritization  
Task Force

# *Board Reporting*

The Board of Directors (the "Board" )is 100% responsible for the organization and every action or inaction of the organization.

Regulatory guidance in many industries suggests that the Board must be actively engaged in the oversight of the information security program.

It is critical to the success of any cybersecurity program that the board to set the **"tone-from-the-top"**.

Regulatory guidance stresses the need for both senior management and the board to be actively involved.

# ***Board Reporting***

Clear and descriptive reporting is extremely important

Every organization must document their reporting expectations

- Frequency of reporting,
- GRC (governance risk compliance) meetings
- Any expectations for stakeholder participation

## ***BEST PRACTICE***

*The best methodologies for creating a framework for active involvement by the board, senior management and key stakeholders is to create a reporting framework that engages all parties.*



# *Board Reporting*

## **Cybersecurity Board reports should include:**

- Total inventory of actively managed assets
- Status of threat | vulnerability | patch management triad
- Status of the organization's cybersecurity risk assessments
- Ongoing monitoring activities
- Any material upcoming, contract renewals, terminations or notable problems with vendors.

# *Board Reporting*

I always recommend board reports contain two fundamental components.

A PowerPoint slide deck one slide devoted to each pillar of information security risk management

1. Asset Security
2. Security Architecture and Engineering
3. Communication and Network Security
4. Identity and Access Management (IAM)
5. Security Assessment and Testing
6. Security Operations
7. Software Development Security
8. Business Continuity Management

# *Board Reporting*

The other component I recommend is a document containing a narrative on each of the cybersecurity pillars as well as

- Important industry information
- New regulatory guidance
- Updates on investments in staff, staff training, key additions or departures from the team
- An overall inventory of actively managed third party network connections, any upcoming connections
- Any material cybersecurity program changes particularly focusing on any changes in high risk or critical areas of operation.

# Frameworks are your friends

- Use a framework!
- There are many to choose from.
- COSO Framework
- NIST
- ISO

# ASSESS

1. Risks (Inherent & Residual)
2. People | Processes | Technology
3. Talent level
4. Project management capability
5. Standardization
6. Quantitative management capability (Golden Circle)



Person	Role	Skill	Current Capability (5 scale)	Ideal Capability	Developmental Action
<b>Jane</b>	<b>Current Role</b>	<b>Skill 1</b>	<b>3</b>	<b>3</b>	<b>None</b>
<b>Alice</b>	<b>Current Role</b>	<b>Skill 2</b>	<b>2</b>	<b>3</b>	<b>Training</b>
<b>Kim</b>	<b>Current Role</b>	<b>Skill 3</b>	<b>1</b>	<b>3</b>	<b>Training</b>
<b>Johnny</b>	<b>Current Role</b>	<b>Skill 4</b>	<b>4</b>	<b>3</b>	<b>Mentor</b>
<b>Carl</b>	<b>Current Role</b>	<b>Skill 5</b>	<b>5</b>	<b>4</b>	<b>Mentor</b>
<b>Ralph</b>	<b>Current Role</b>	<b>Skill 6</b>	<b>2</b>	<b>4</b>	<b>Training</b>
<b>Sara</b>	<b>Current Role</b>	<b>Skill 7</b>	<b>3</b>	<b>4</b>	<b>Training</b>
<b>None</b>		<b>Skill 8</b>	<b>0</b>	<b>5</b>	<b>Partner</b>
<b>None</b>		<b>Skill 9</b>	<b>0</b>	<b>5</b>	<b>Hire</b>



# Certifications

(ISC) <sup>2</sup>	Cisco	SANS
- CISSP	- CCENT	Et al...
- SSCP	- CCT	
- CCSP	- CCDA	
- CAP	- CCNA	
- CSSLP	- CCNP	
- HCISPP	- CCDE	
- CISSP - ISSAP/ISSE P/ISSMP	- CCIE	

**How we learn**



**Comfort Zone**

**Fear Zone**

**Learning Zone**

**Growth Zone**

*You feel safe and in control*

*You're affected by others' opinions*

*Acquire new skills*

*Set new goals*

*Lack self-confidence*

*Find excuses*

*Deal with challenges and problems*

*Extend your comfort zone*

*Find purpose*

*Live your dreams*

*Conquer objectives*

# Frameworks

Framework	Best Utilization
NIST CSF	Cybersecurity
CMM	Software Development
COSO	Enterprise Risk Management
COBIT	IT Governance/Controls
ITIL/ITSM	IT Service Management
ISO/IEC 27001	Cybersecurity
TOGAF	Enterprise Architecture
Zachman	Enterprise IT

# The clock in your head

## What

1. **Justify your technology**
2. **Train, train, train**
3. **Calendar up**
4. **GRC**
5. **Framework adjustments**
6. **GA release**
7. **Vulnerability Assessments**

## Time

1. **18 months**
2. **3 months**
3. **Monday mornings**
4. **Monthly**
5. **12-18 months NMW or PRN**
6. **12-18 months NMW or PRN**
7. **Daily**

# Keeps on ticking...

What	Time
8. <b>Risk Assessments</b>	8. <b>Annually and PRN</b>
9. <b>Code reviews</b>	9. <b>DevOps is a team sport</b>
10. <b>Patches</b>	10. <b>Weekly and PRN</b>
11. <b>System Configuration</b>	11. <b>PRE-production</b>

# Cybersecurity Road Map for any size corporation

1. SETA
2. Who are your stakeholders
3. Watch your numbers
  - a. Budget, Number of Employees, Burn Rate
4. Know your 4 P's  
(policy, procedure, process, project)
5. Security architecture
6. Asset ID
7. BCP/DRP
8. Risk Management
9. Training & Cross-training

# 5 Areas where successful CISOs accel!

1. IQ and EIQ
2. Communication
3. Technical Kung Fu vs. Krav Maga
4. High performance team building
5. Third Party Risk Management







## Prep

- 30-60-90 day plan
- Manager's expectations
- Org chart
- Industry R&D
- Company R&D
- Department R&D

## Measure

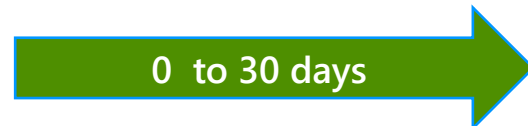
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- Assets unmanaged
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- Access Controls
- Interview key stakeholders
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## Assess

- Enterprise cybersecurity architecture vs. baseline
- Current training plan(s)
- Software development team(s)
- DevOps Team(s)
- How the organization is meeting PCI, HIPAA, CCPA, NTDFS
- Network security audit results
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- Create Corporate Information Protection Plan
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- Social your roadmap
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- Define the recovery of your people, facilities and systems for every LOB
- Energize the SETA program
- Perform a gap assessment on all aspects of information security
- Draft ransomware vulnerability report



# MAP

Measure • Assess • Plan

- Assess the information security department, the people in it and the organization it serves.
- Develop organization specific tools to accurately determine the capabilities and operational readiness of the department.
- Create the people, processes and technology road map for the information security department

# MAP

Measure • Assess • Plan

## MEASURE

- Cybersecurity department
- The people
- The organization it serves.

# MAP

Measure • Assess • Plan

The First 100 Days

## ASSESS

- Cybersecurity department
- The people
- The organization it serves.

# MAP

Measure • Assess • Plan

The First 100 Days

## Plan

- Cybersecurity department
- The people
- The organization it serves.

# Assessment

- Organization
- Cybersecurity Team
- Information Technology Team
- Third Parties [Vendors]

**Plan the work.**  
**Work the plan.**

- **Strategic**
- **Tactical**



**Plan the work.**  
**Work the plan.**

**Measure progress**

**Demonstrate**

**Program effectiveness**

**Process effectiveness**

**Level of security**

# MAP

Measure • Assess • Plan

- Industry
- Organization's life cycle position
- Industry expanding or contracting
- Disruption potential
- Critical infrastructure designation
- Your level of culture shock...

# Operational Readiness

## Business Continuity & Disaster Recovery

- BIA
- RPO
- RTO
- MAD

# Business Impact Analysis

- Everyone can't be #1
- Define criticality 1<sup>st</sup>
- The “tone-from-the-top”

# Business Continuity Management

## Business Continuity

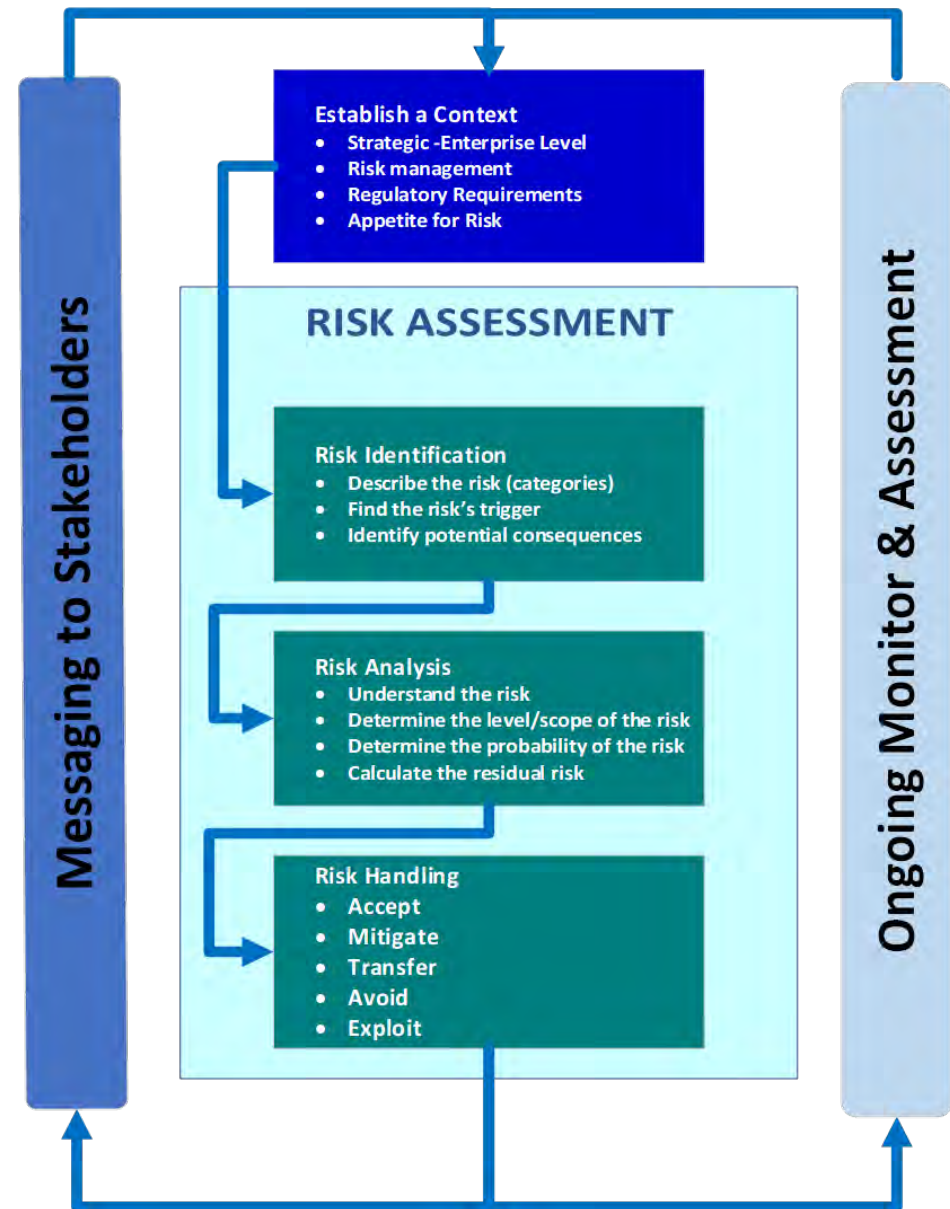
- Disaster Recovery
- Pandemic Planning
- Incident Response

# Disaster Recovery's Three Steps

## Recover

1. People
2. Facilities
3. Systems

# Cybersecurity Risk Assessment Process





# Risk Analysis

## Risk Appetite | Risk Appetite Statement

**Threat X Vulnerability X Consequences = Inherent Risk**

**Inherent Risk – Risk Mitigation(s) = Residual Risk**

# Risk Analysis

Threat X Vulnerability X Consequences = Inherent Risk

Inherent Risk – Risk Mitigation(s) = Residual Risk

# Simple Risk Modeling

**Inherent Risk** - **Impact of Risk Controls** = **Residual Risk**

**A Risk** (Any Risk) - **Risk Controls** = **Residual Risk**

## Example #1

### Environmental Risk

1 Natural Disaster  
Earthquake in Oklahoma (circa 2014) - Disaster Recovery Site more than 100 miles away = Probability of downtime before recovery site comes online

**100%** - **80%** = **20%**

## Example #2

2 Natural Disaster  
Earthquake in Oklahoma (circa 2019) - Disaster Recovery Site more than 100 miles away = Probability of downtime before recovery site comes online

**10%** - **9%** = **1%**

	<b>A Risk</b> <i>(Any Risk)</i>	<b>The Harm or Loss of Any Single Risk</b> <i>(1 to 10)</i>	<b>X</b>	<b>Probability of the Risk's Occurrence</b> <i>(1 to 10)</i>	<b>=</b>	<b>Inherent Risk Score</b>	<b>-</b>	<b>Applied Risk Controls (Risk Mitigation)</b>	<b>Risk Controls Value</b>	<b>=</b>	<b>Residual Risk</b>	<b>Final Risk Rating</b>
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## Environmental Risks Assessed

1	<b>Natural Disaster</b> <b>Earthquake in Oklahoma</b>	5	X	8	=	40	-	Disaster Recovery Site more than 100 miles away	20	=	20	Low Risk
2	<b>Man-made Disaster (Arson)</b>	9	X	9	=	81	-	Advanced dry pipe sprinkler system installed and operational.	45	=	36	Below Average Risk

## Regulatory Guidelines for Risk Categories

3	<b>Strategic Risk</b> <i>(of any vendor)</i>	9	X	9	=	81	-	Nothing can be done to reduce this risk	0	=	81	High Risk
4	<b>Reputational Risk</b> <i>(of any vendor)</i>	8	X	10	=	80	-	Hire a social media consultant	5	=	75	Above Average Risk
5	<b>Financial Risk</b> <i>(of any vendor)</i>	8	X	8	=	64	-	Ongoing monitoring of Edgar and D&B	5	=	59	Average Risk
6	<b>Operational Risk</b> <i>(of any vendor)</i>	10	X	10	=	100	-	Backup item processing system in place	35	=	65	Above Average Risk
7	<b>Compliance Risk</b> <i>(of any vendor)</i>	5	X	10	=	50	-	Complaisance department will audit all Bus	15	=	35	Below Average Risk
⋮											0	
n <sup>th</sup>	<b>Category</b>	10	X	10	=	100	-	Control that works	80	=	20	Low Risk

Vendor Risk Assessment						Risk Score	Risk Categories
All Vendors						0 – 20	Low Risk
As of: January 1, 2019						21 - 40	Below Average Risk
						41 - 60	Average Risk
						61 - 80	Above Average Risk
						81 - 100	High Risk

Vendor Name	Potential Risk to Your Organization	Risk of Harm or Loss 1 to 10 Low to High	Probability of Risk's Occurrence 1 to 10 Low to High	Inherent Risk Score	Raw Risk Rating	Risk Control Action(s)	Mitigation Value	Mitigated Risk Score	Mitigated Risk Category
AT&T	Internet Service Provider	9	10	90	High Risk	Two ISPs ATT&T and Cox	50	40	Below Average Risk
ATM & FI Equipment Service Provider	Installation & repair of ATMs & FI's equipment	7	8	56	Average Risk	ANY has two vendors that produce cards	10	46	Average Risk
Braintree	Mobile and web payment systems	10	7	70	Above Average Risk	Backup system in place	50	20	Low Risk
Ceridian	Dayforce - employee self-service functions	8	6	48	Average Risk	Ceridian utilizes Tier 4 datacenters	25	23	Below Average Risk
Dell	Computer hardware	5	5	25	Below Average Risk	This application resides on ANY's network and source code is escrowed	1	24	Below Average Risk
Harland/Clarke	Check programs	2	2	4	Low Risk	Alternate check provider available with one call	1	3	Low Risk
Jack Henry & Associates	Xperience core banking system software	10	4	40	Below Average Risk	JHA utilizes multiple datacenters	20	20	Low Risk
Janitorial/Cleaning	Exposure to nonpublic personal information inside the FI	3	3	9	Low Risk	Alternate cleaning crew available	1	8	Low Risk
Microsoft	Computer software	10	2	20	Low Risk	No immediate substitute available	0	20	Low Risk
Q2	Digital & mobile banking	6	9	54	Average Risk	Alternate service provider available	10	44	Average Risk
Salesforce	CRM platform (cloud based)	5	5	25	Below Average Risk	Ongoing monitoring program in place	10	15	Low Risk
SAS Institute	Customer analytics	8	8	64	Above Average Risk	Ongoing auditing of vendor in place	10	54	Average Risk
Stripe	Credit card issuing technology, point-of-sale software and a billing platform	8	8	64	Above Average Risk	Alternate vendor in place	25	39	Below Average Risk
Upstream Correspondent Bank	Treasury services and foreign exchange	5	5	25	Below Average Risk	Alternate correspondent bank agreement in place	15	10	Low Risk
YapStone	End-to-end payment solutions	9	8	72	Above Average Risk	Alternate solution provider agreement in place	25	47	Average Risk
<b>Averages</b>		<b>7</b>	<b>6</b>	<b>44</b>	<b>Average Risk</b>	<b>Averages</b>	<b>17</b>	<b>28</b>	<b>Below Average Risk</b>

# Change Management

- **SDLC**
- **Data warehouse and data marts**
- **Information factory**
- **Agile**
- **Digital transformation**
- **DevOps**
- **AI**
- **IoT**

**How do we adapt  
since we really have  
no logical  
alternative?**

- **Skills – Hard & Soft**
- **Your comfort zone**  
(technology and people)
- **Surround yourself with smarter people**

# Measure

What	With
Skills	Skill matrix
EIQ	Any
Risk appetite	COSO framework
Obsolescence	Asset management



# Assess Team Composition

-**Hard skills** [skill matrix]

-**Soft skills** [ Myers-Briggs or True Colors]

**Be willing to  
invest in the  
team**

- **Training & Education**
- **Get them certifications**
- **Get more than one!**
- **(ISC)<sup>2</sup> has a few...**

# Certifications

(ISC) <sup>2</sup>	Cisco	SANS
- CISSP	- CCENT	Et al...
- SSCP	- CCT	
- CCSP	- CCDA	
- CAP	- CCNA	
- CSSLP	- CCNP	
- HCISPP	- CCDE	
- CISSP - ISSAP/ISSE P/ISSMP	- CCIE	

**How we learn**



# Final Thoughts

1. **Wire**
2. **Memory**
3. **SSD**
4. **Asset Management**
5. **Personnel**

1. **Get it right up front**
2. **You can't have too much**
3. **Spinning disks? Why?**
4. **You MUST know what's attached to your network and what you're tasked with protecting!**
5. **People are your best assets. Care for them like they are family.**

# CISA Releases Best Practices for Preventing Business Disruption from Ransomware Attacks

**Filtering network traffic to prohibit ingress and egress communications with known malicious IP addresses;**

**Enabling strong spam filters to prevent phishing emails from reaching end users;**

**Implementing robust network segmentation between information technology and operational technology networks; and**

**Regularly testing manual controls; and ensuring that backups are implemented, regularly tested, and isolated from network connections.**



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