

Building Cybersecurity Resilience Into Your Organization

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Cybersecurity Advisor Program

CISA mission: Lead the collaborative national effort to strengthen the security and resilience of America's critical infrastructure

In support of that mission: Cybersecurity Advisors (CSAs):

- **Assess:** Evaluate critical infrastructure cyber risk.
- **Promote:** Encourage best practices and risk mitigation strategies.
- **Build:** Initiate, develop capacity, and support cyber communities-of-interest and working groups.
- **Educate:** Inform and raise awareness.
- **Listen:** Collect stakeholder requirements.
- **Coordinate:** Bring together incident support and lessons learned.

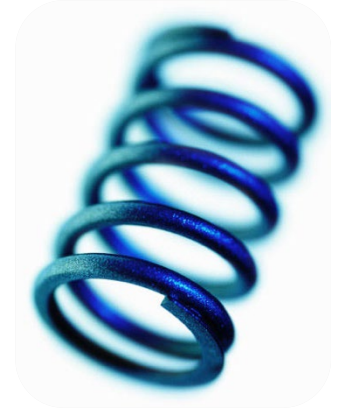


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Resilience Defined

“... the ability to prepare for and adapt to changing conditions and withstand and recover rapidly from disruptions. Resilience includes the ability to withstand and recover from deliberate attacks, accidents, or naturally occurring threats or incidents...”

- Presidential Policy Directive 21
February 12, 2013



Protect (Security)	Sustain (Continuity)
Perform (Capability)	Repeat (Maturity)



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AGENDA



1

Know Thyself

2

Know Thy Enemy

3

Understand Your Environment

4

Level Up

5

Deny the Adversary All of the Above



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KNOW THYSELF



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KNOW THY ENEMY



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Weak Passwords

TIME IT TAKES A HACKER TO BRUTE FORCE YOUR PASSWORD IN 2022

Number of Characters	Numbers Only	Lowercase Letters	Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters	Numbers, Upper and Lowercase Letters, Symbols
4	Instantly	Instantly	Instantly	Instantly	Instantly
5	Instantly	Instantly	Instantly	Instantly	Instantly
6	Instantly	Instantly	Instantly	Instantly	Instantly
7	Instantly	Instantly	2 secs	7 secs	31 secs
8	Instantly	Instantly	2 mins	7 mins	39 mins
9	Instantly	10 secs	1 hour	7 hours	2 days
10	Instantly	4 mins	3 days	3 weeks	5 months
11	Instantly	2 hours	5 months	3 years	34 years
12	2 secs	2 days	24 years	200 years	3k years
13	19 secs	2 months	1k years	12k years	202k years
14	3 mins	4 years	64k years	750k years	16m years
15	32 mins	100 years	3m years	46m years	1bn years
16	5 hours	3k years	173m years	3bn years	92bn years
17	2 days	69k years	9bn years	179bn years	7tn years
18	3 weeks	2m years	467bn years	11tn years	438tn years



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> Learn about our methodology at hivesystems.io/password

Resources & Links (Adversary)

Shodan

<https://www.shodan.io>

Censys

<https://censys.io>

Compromised Accounts

<https://haveibeenpwned.com>

MitreAtt&ck Framework

<https://attack.mitre.org>

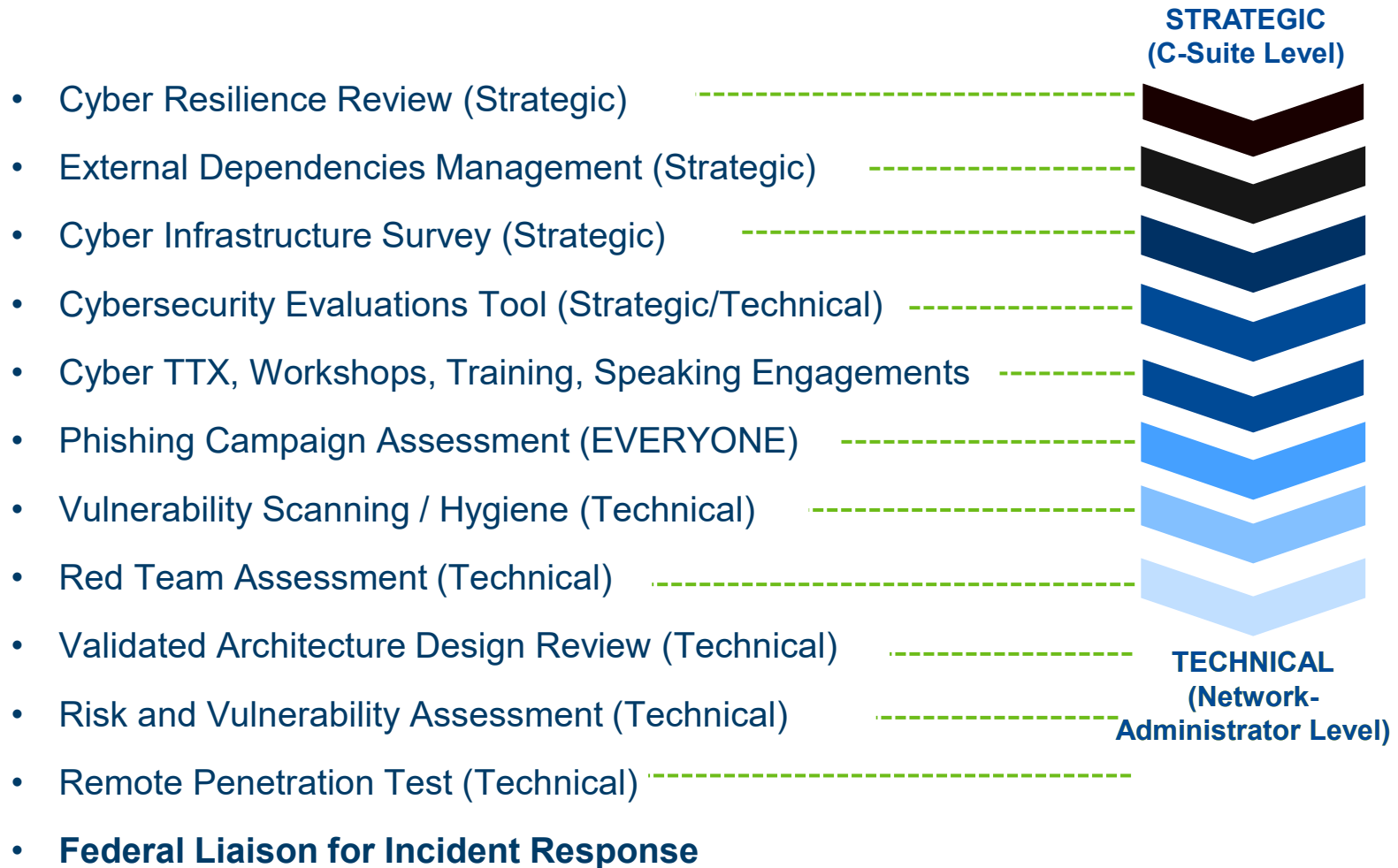
Hackmageddon

<https://www.hackmageddon.com>

Train your IT(Sec+ or equivalent)/cybersecurity(CE|H or equivalent) employees in offense to make better defenders!!!



Range of NO COST Cybersecurity Assessments



UNDERSTAND YOUR ENVIRONMENT



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**LEVEL UP:
DENY THE ADVERSARY
ALL OF THE ABOVE**



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CISA Resources & Links

CISA Shields Up

<https://www.cisa.gov/shields-up>

CISA Cyber Essentials

<https://www.cisa.gov/cyber-essentials>

CSET Ransomware Readiness Assessment

<https://github.com/cisagov/cset/releases/tag/v10.3.0.0>

Other CISA Cyber Resources

<https://www.cisa.gov/cyber-resource-hub>



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