Incident Response TTX Workshop

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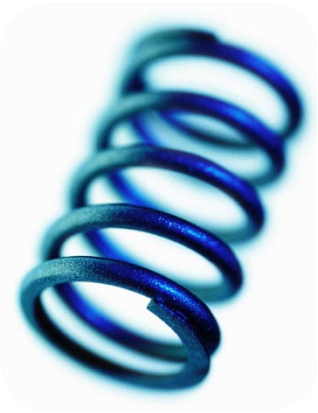
Resilience Defined

"… 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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CTTX Format

Duration:	4-8 hours (minimum of 4 hours usually unless you do them often)
Participants:	Facilitator; Notetaker; Decision maker; IT team; cybersecurity team; legal, HR, PR/marketing, CFO/procurement person; operations and more!
Type:	TTX only; Functional; Hybrid

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CISA CTTX Resources

Planning Assistance: Exercise Team or Cybersecurity Advisor (CSA)

CISA Cybersecurity TTX templates

https://www.cisa.gov/publication/cybersecurity-scenarios

NIST Cybersecurity Framework

https://www.nist.gov/cyberframework

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IR Agenda

1. Preparation/Identification
2. Containment
3. Eradication
4. Recovery
5. Lessons Learned

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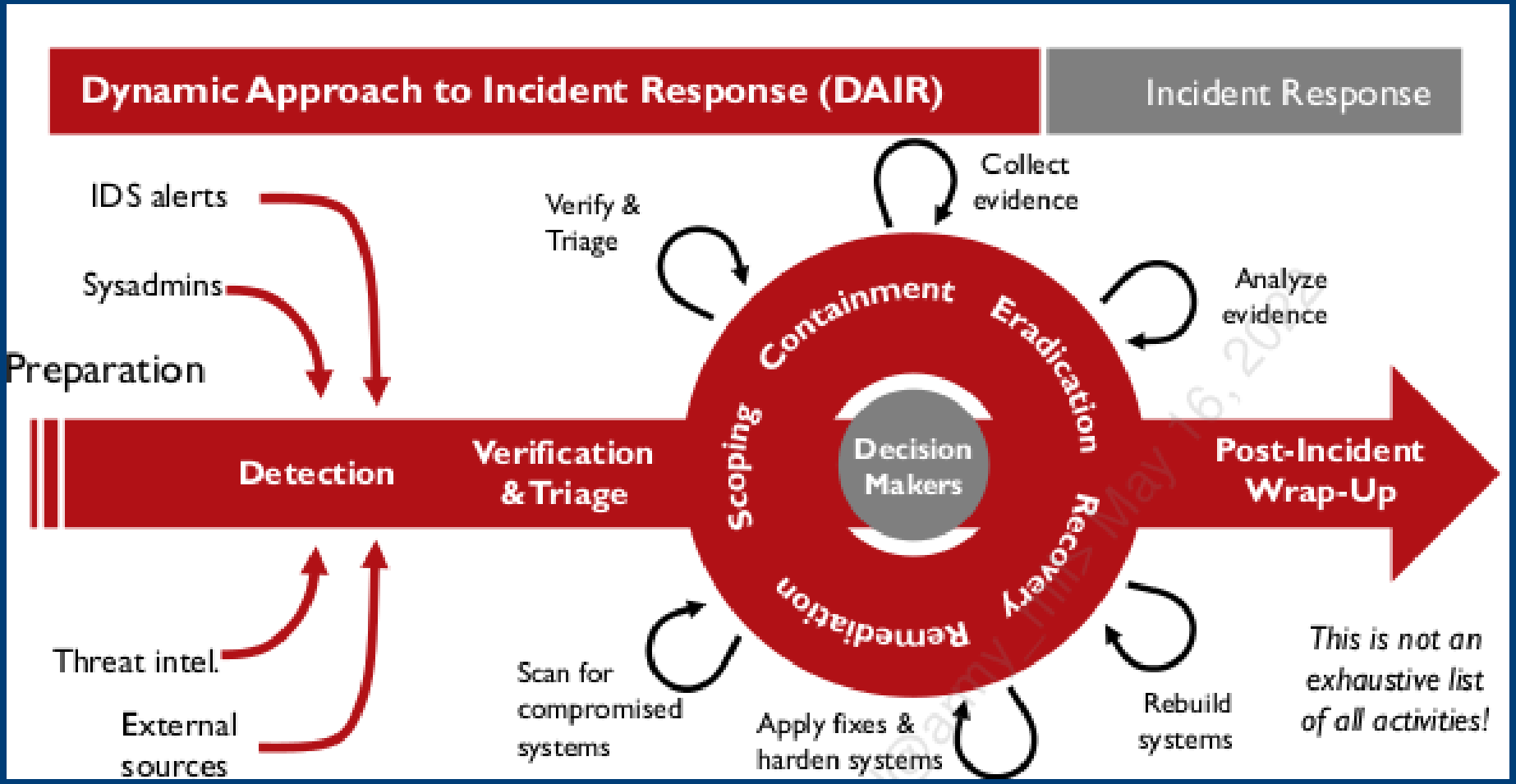
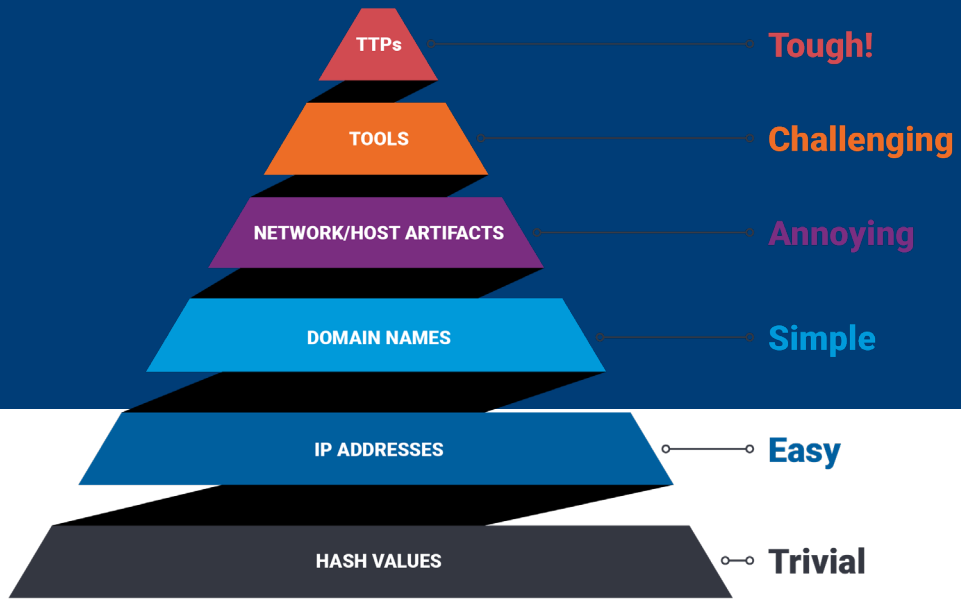

Dynamic Approach to Incident Response (DAIR)
Incident Response
IDS alerts
Sysadmins
Preparation
Detection
Verification & Triage
Verify & Triage
Collect evidence
Containment
Eradication
Recovery
Remediation
Scoping
Decision Makers
Analyze evidence
Post-Incident Wrap-Up
Threat intel.
External sources
Scan for compromised systems
Apply fixes & harden systems
Rebuild systems
This is not an exhaustive list of all activities!

Preparation



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Speedy “Recovery” BIG TEN

1. Logging the RIGHT things
2. Backups (3-2-1 rule)
3. MFA (multi-factor authentication)
4. Canaries/honey elements
5. Data exfiltration prevention tools
6. TTX muscle memory (and hard copy of incident response plan)/incident playbook)
7. Hard copy of network diagram (within last six months)
8. Hard copy of asset inventory (within last six months)
9. Centralized logging solution
10. Cybersecurity aware employees (trained)

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!!!

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Identification

Containment

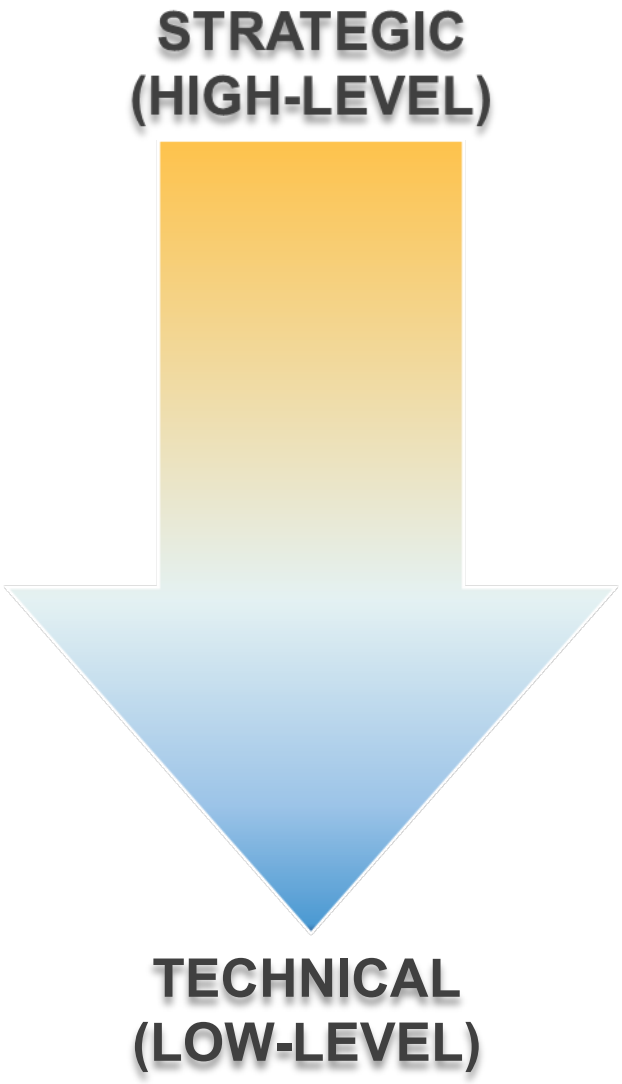
Eradication

Recovery

Lessons Learned

Range of Cybersecurity Assessments (NO COST)

- Cyber Resilience Review (CRR)
- External Dependencies Management (EDM)
- Cyber Infrastructure Survey (CIS)
- Phishing Campaign Assessment (PCA)
- Cyber Tabletop Exercises (CTTX)
- Vulnerability Scanning Service (VSS)
- Web Application Scanning (WAS)
- Remote Penetration Test (RPT)
- Risk & Vulnerability Assessment (RVA)
- Red Team Assessment (RTA)



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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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CISA Contact Information

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