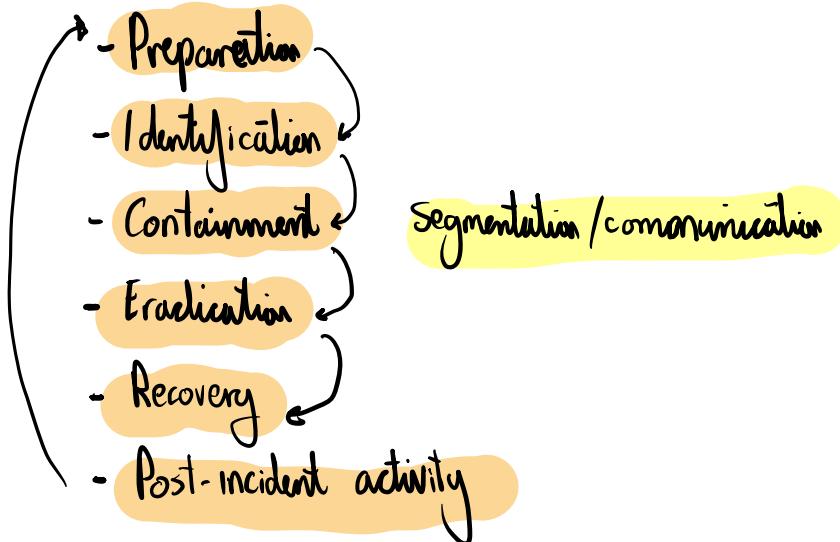


Incident response policy



Cyber Incident response teams

Reporting, Categorizing and prioritizing (triage)
↳ Incident analysis

- CIAT cyber - Incident response team
- CERT computer emergency response team
- CSIRT computer security Incident response team
- SOC security operations center

24/7 availability

Roles beyond technical response

- legal
- HR
- Marketing

Communication Plan and Stakeholder Management

- Must make sure not to inadvertently disclose info to parties that do not need to know. you can avoid this by the use of call lists
- Call list:
 - A list of authorised people to notify
- Communication plan
 - Share data on a need to know basis
 - Use out of band communication to avoid alerting intruder. (Signal, etc)
- Stake holder management
 - Communication with Internal / External stakeholders.
 - reporting and notifying

Incident response plan

- Lists procedures, contacts and resources available to respond to different types of attacks.
- Playbooks and runbooks (Use SIEM Reports)
 - Guide for junior analyst to follow (Based on type of attack)
- Incident categorisation
- Prioritizing Incidents based on

- Data Integrity
- Down time
- Economic / Publicity
- Scope
- Detection time
- Recovery time

Cyber kill chain Attack Frame work

1- Recon

2- Weaponization

- Coupling exploit w/ Vulnerability

3- Delivery (of payload)

4- Exploitation (running exploit)

5 - Installation

- Achieving persistence

- RCE

6- Command and Control

7- Actions to achieve objectives e.g data exfiltration

Other Attack Frame works

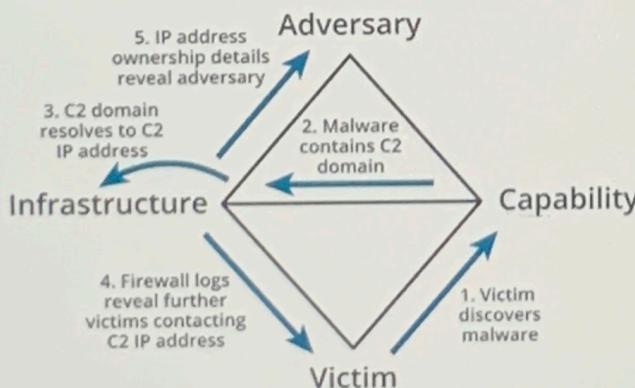
MIRE ATT&CK

- Matrix that provides access DB of ATT&CK (each technique is given an ID #)
- Tactic categories (Recon, Exp, ...)
- No explicit sequencing (must figure that out on your own)

The diamond model of Intrusion analysis

The Diamond Model of Intrusion Analysis

The Diamond Model of Intrusion Analysis suggests a framework to analyze an intrusion event (E) by exploring the relationships between four core features: adversary, capability, infrastructure, and victim. These four features are represented by the four vertices of a diamond shape. Each event may also be described by meta-features, such as date/time, kill chain phase, result, and so on. Each feature is also assigned a confidence level (C), indicating data accuracy or the reliability of a conclusion or assumption assigned to the value by analysis.



Incident Exposure Exercises

- Table top

- Scenario based (not live)
- cheapest one

- Walk through

- Responders demonstrate response actions

- Simulation

Red vs Blue teams

Incident Response, disaster recovery, Retention policy, business continuity

- Disaster recovery plan (large # of stakeholders/resources)

(may involve moving data to a secondary location)

- Business continuity plan (BCP)

How the business will deal with a minor or major incident

- Continuity of operation planning (COOP)

like BCP but for government. specifies back up methods w/out IT support

Incidence response, forensics and retention policy

- Digital forensics requirements

- Retention policies for evidence storage