

# HACKED part 2



OCAPDD: Dave Ferguson

Pathway Communications: Daniel Rajanayagam

# Today's Speakers



**OCAPDD**

**Dave Ferguson, CEO**



**OCAPDD / AOCPDI**  
**Open Hands**

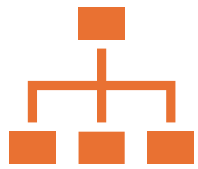


**Pathway Communications**

**Daniel Rajanayagam, VP of Client Solutions**



# Agenda



Chapter 1:  
Background



Chapter 2: The  
Breach



Chapter 3: The  
Response

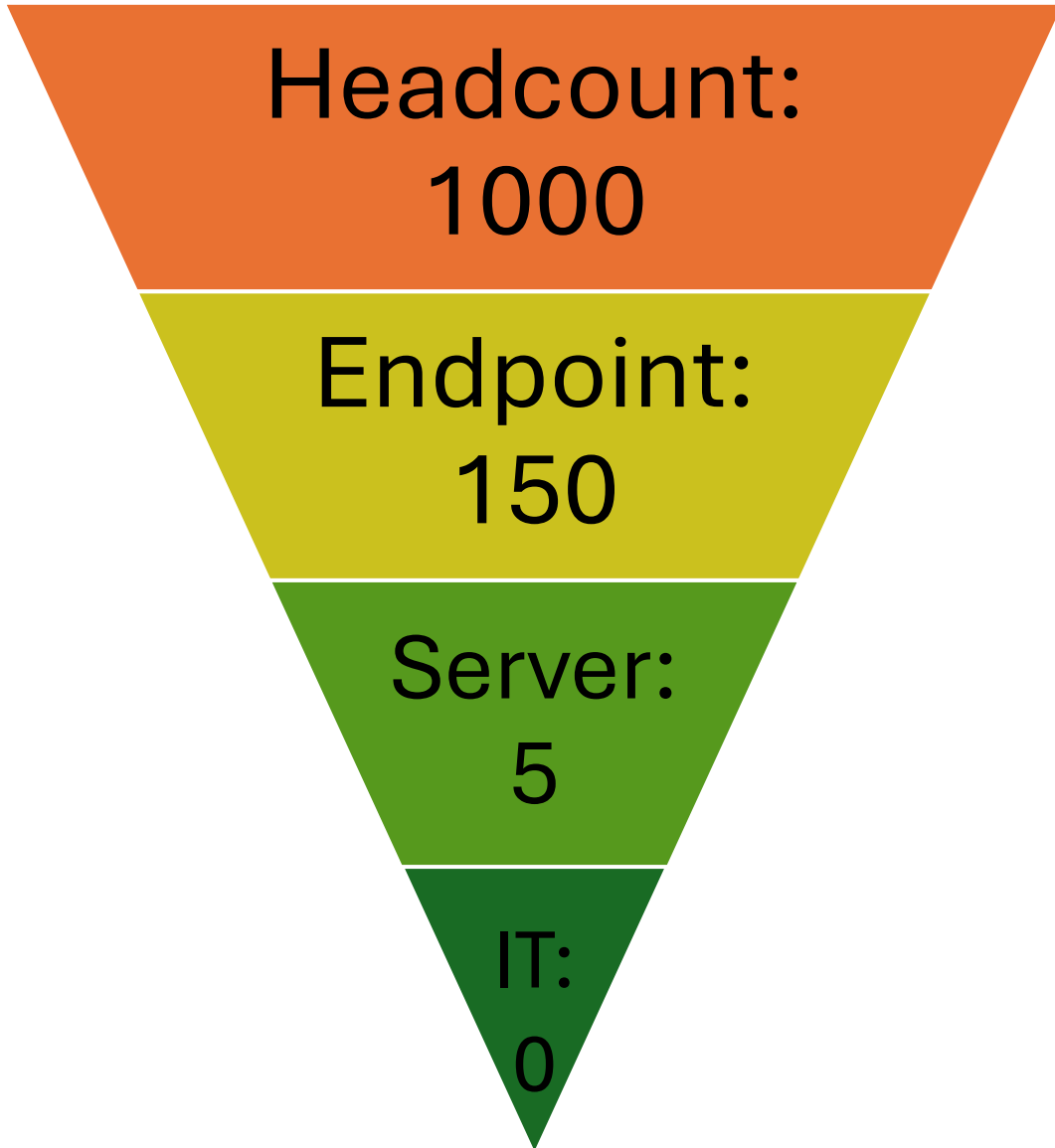


Chapter 4: The  
Lessons

# Chapter 1

Background

# OCAPDD's Infrastructure



Event  
State

Data  
Backups

Antivirus

Optimal  
State

DR/BCP

IRP

Antimalware

Log analysis

# Chapter 2

The Breach

### Attack Vector

- Training account

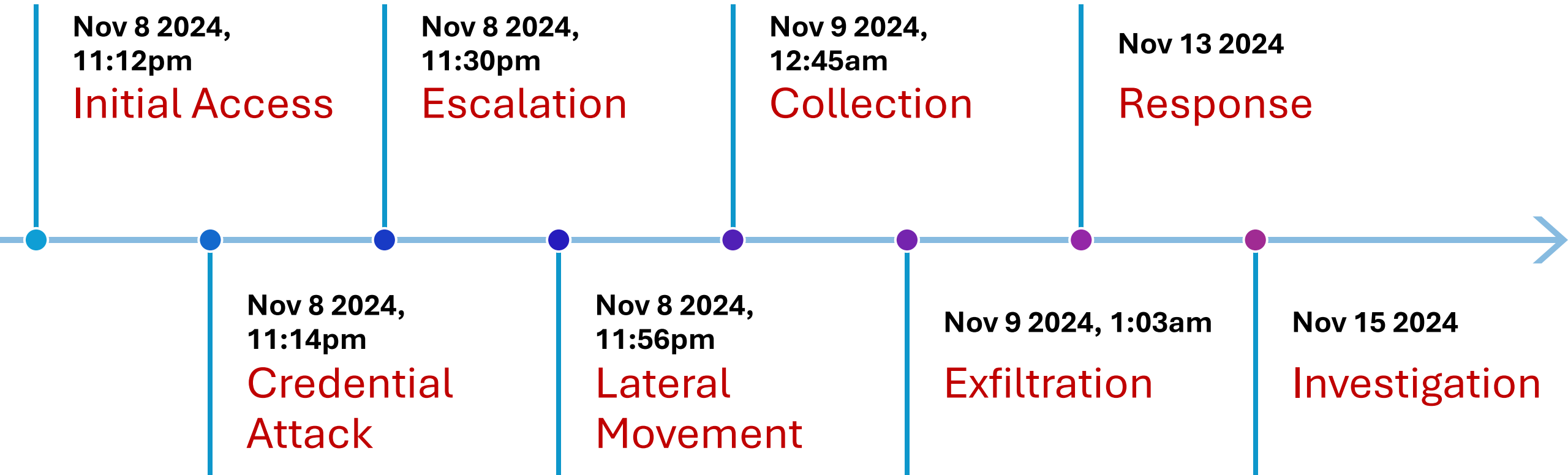
### Target

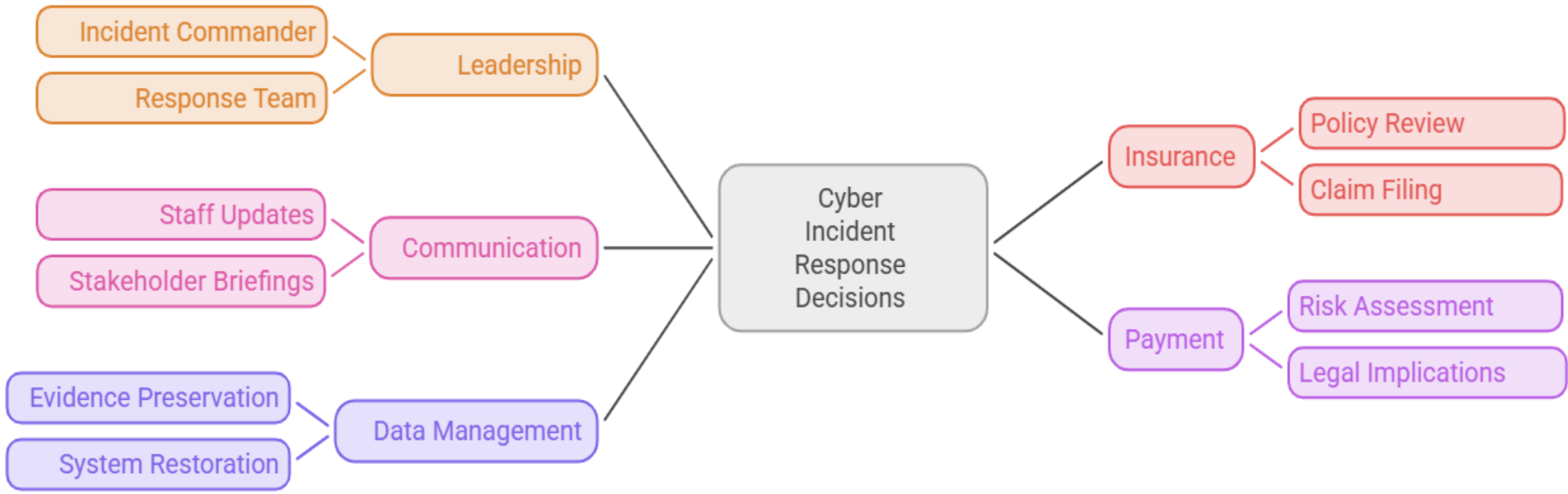
- PII, PHI, Financials

### Dwell Time

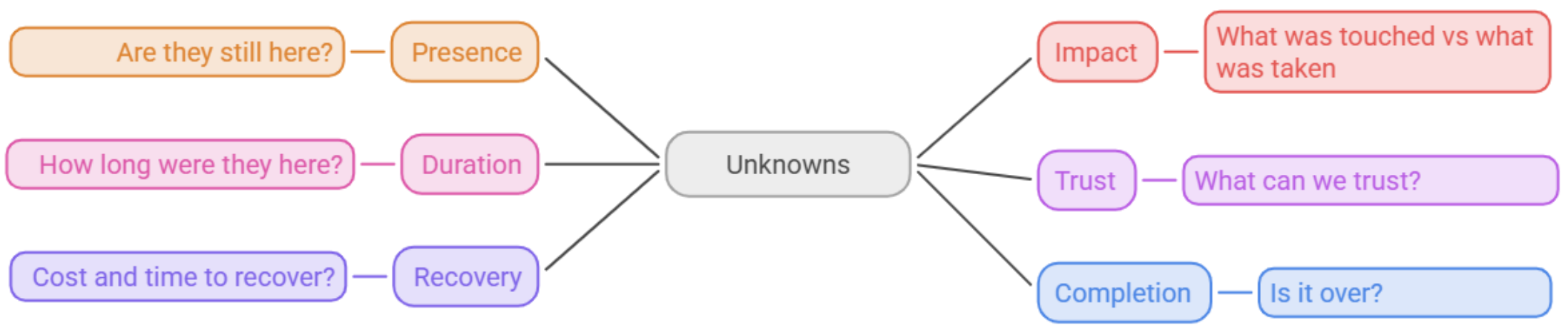
- 5 days

## Discovery Timeline





Event Apprehended  Chaos



# Chapter 3

The Response

# Response Methodology Order

- Identify breach
- Isolate systems
- Implement fix

Containment



- Collect evidence
- Analyze attack
- Document findings

Investigation



- Assess requirements
- Draft communication
- Execute

Notification



- Restore systems
- Patch vulnerabilities
- Monitor systems

Recovery



# Containment: Stop the Bleeding

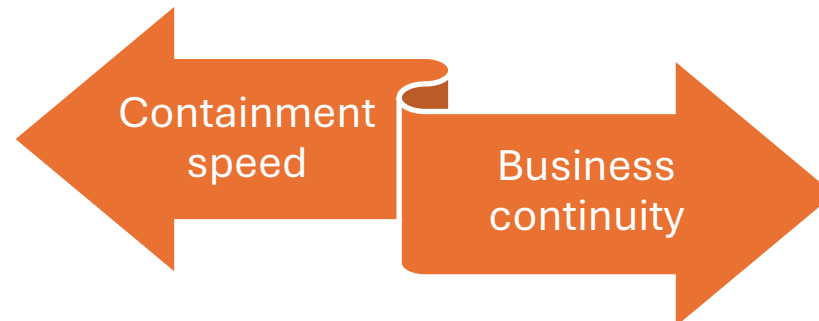
Goals and decisions

Isolate vs shutdown

Preserving evidence

Cutting off attacker access

Credential resets at scale



# Containment: Expertise

**Incident  
Command**

authority, coordination, non-technical

**Network /  
Infrastructure**

executes isolation, disables entry points

**Systems  
Administration**

resets and audits accounts and logs

**Threat Detection**

deploys response to endpoints

**Legal Counsel**

governs privilege, evidence preservation, obligations

**Communications**

manages internal and external notifications

# Investigation: Forensics 101

Imaging

Log analysis

Malware reverse engineering

Establishing root cause and scope

# Investigation: Following the Evidence



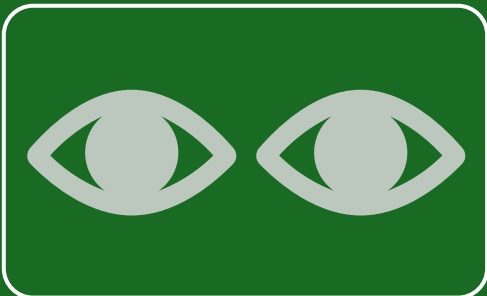
## Walkthrough of the Investigation

- Reconstructed attack chain
- Evidence correlation
- Iterative process across months



## Logs versus Gaps

- Windows Security Event Logs, MegaSync application logs
- Limited log Retention, no centralized log aggregation



## Scope of Data Access

- Access vs exfiltration
- Scope of affected individuals had to be manually established

# Notification: Obligations

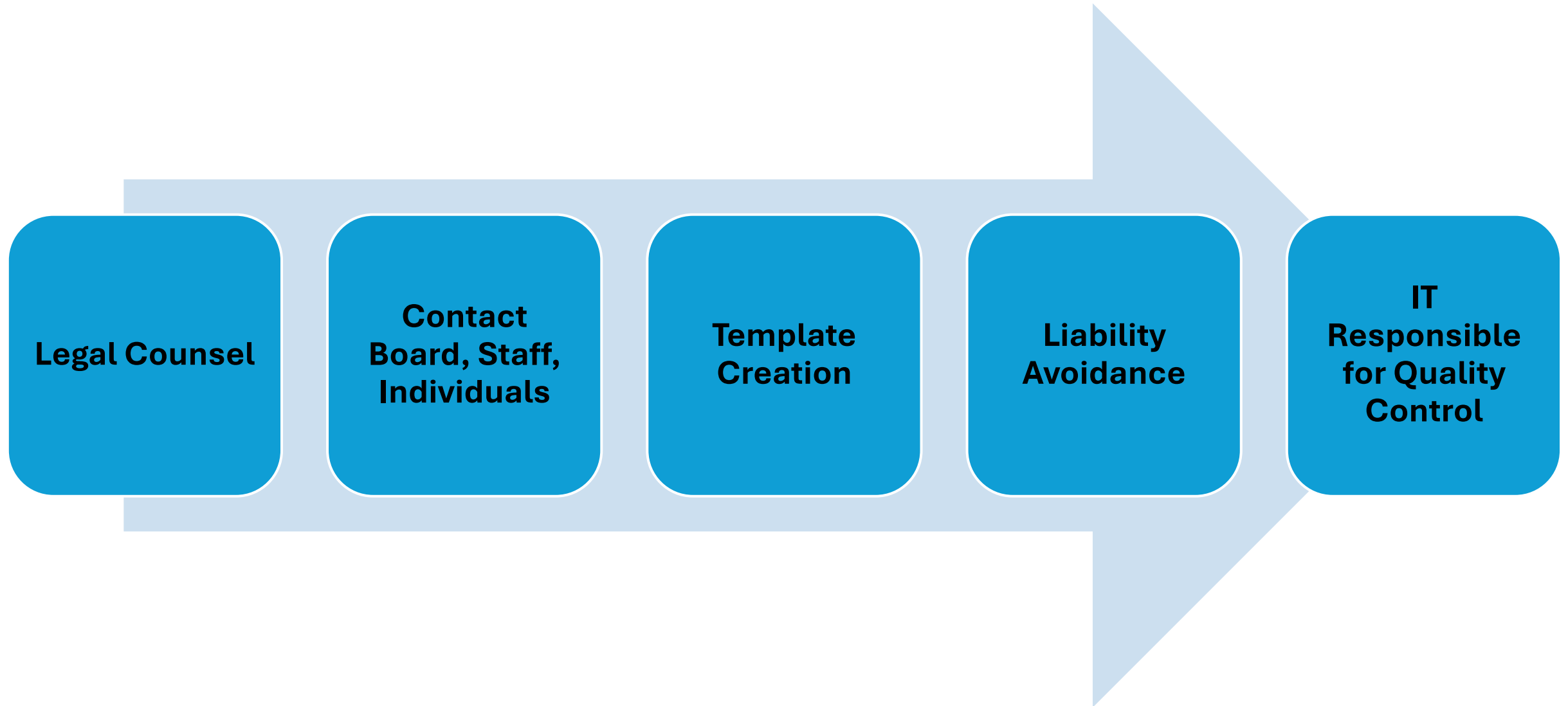
Privacy legislation

Breach reporting requirements

Contractual obligations to funders

Insurance notification clauses

# Notification: Communicating under fire



# Recovery: Rebuild vs Restore

Trusting backups

Danger of restoring compromised systems

Rebuilding from known-good data/states

Recovery time vs expectations

# Recovery: Hardening while Rebuilding

## Recovery vs opportunity

## Decisions made during rebuild

## New technologies

- MFA rollout
- EDR
- SIEM

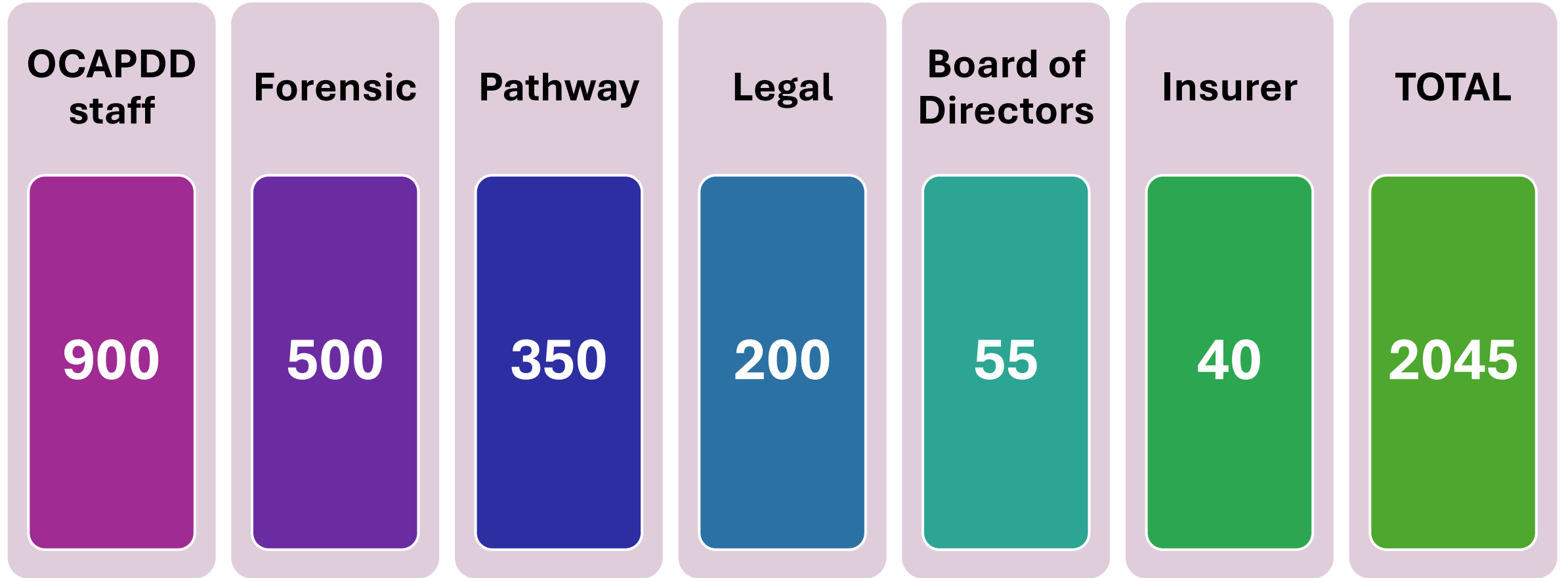
## New architecture

- network design
- systems isolation

## New processes

- testing recovery
- annual training
- round tables

# Total Response Effort (in hours)



# Chapter 4

The Lessons

# IT Manager's Real Job

## You own the risk

- Breach response burden lands on you regardless of the cause

## Myths

- “We’ve never had a problem” is not a security posture
- “Too small to be a target” assumes a lack of automation

## Reality

- Attackers automate, targeting vulnerabilities not victims
- NFPs hold valuable data (PII, PHI, donor financials) and have below-average defenses

# Assess and Measure



Do you know your dwell-time detection capability?



Can you produce 90 days of authentication logs right now?



When did you last test a restore?



Who do you call first at 2am?

MFA coverage  
%

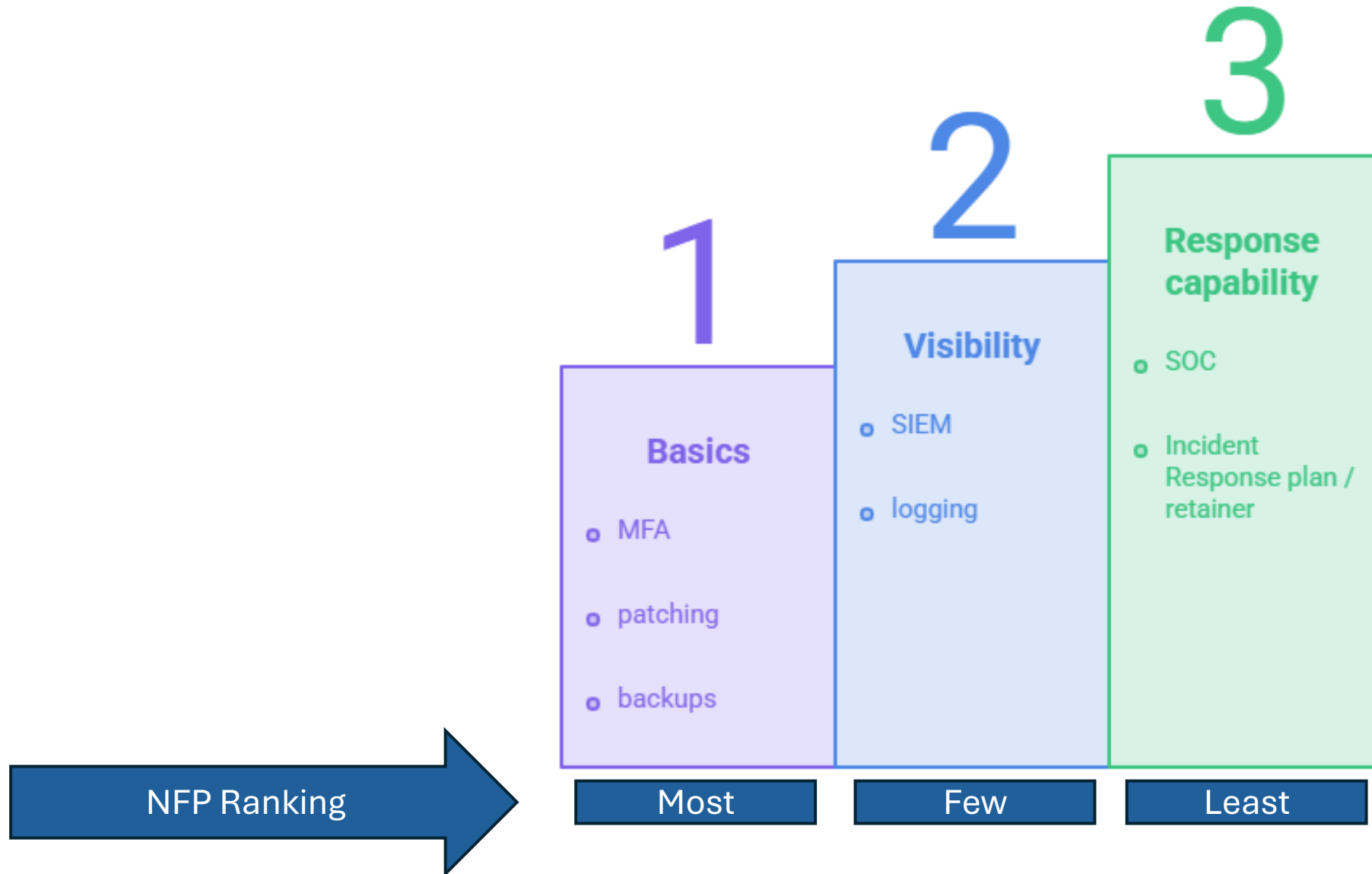
EDR coverage  
%

Backup  
restore test  
recency

Incident  
response plan  
existence / age

Log retention  
period

# Maturity Ladder



# Next Steps

01

Get a security  
assessment

02

Enable MFA

03

Test your  
backups  
regularly

04

Establish and  
Incident  
Response  
contact now

05

Establish  
telemetry via  
SIEM

# Disclosure

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# Q&A

Contacts:

[Daniel.Rajanayagam@corp.pathcom.com](mailto:Daniel.Rajanayagam@corp.pathcom.com)

[Walter.Zenko@corp.pathcom.com](mailto:Walter.Zenko@corp.pathcom.com)