



# Realita obnovy dát pri kybernetickom útoku

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Senior Principal Sales Engineer

**COHESITY**







**All Roads  
Pass Through  
Your Data**



# The Industry's ONLY Data Security Alliance

COHESITY

 **paloalto**  
NETWORKS

 **CROWDSTRIKE**

 **tenable**

MANDIANT

**okta**

  
**CISCO**

  
**pwc**

 **BigID**

**splunk**>

**securonix**

 **CYBERARK**

**tcs** TATA  
CONSULTANCY  
SERVICES

 **Qualys.**

 **netskope**

 **Dig**

**servicenow**

 **zscaler**

 **sentra**

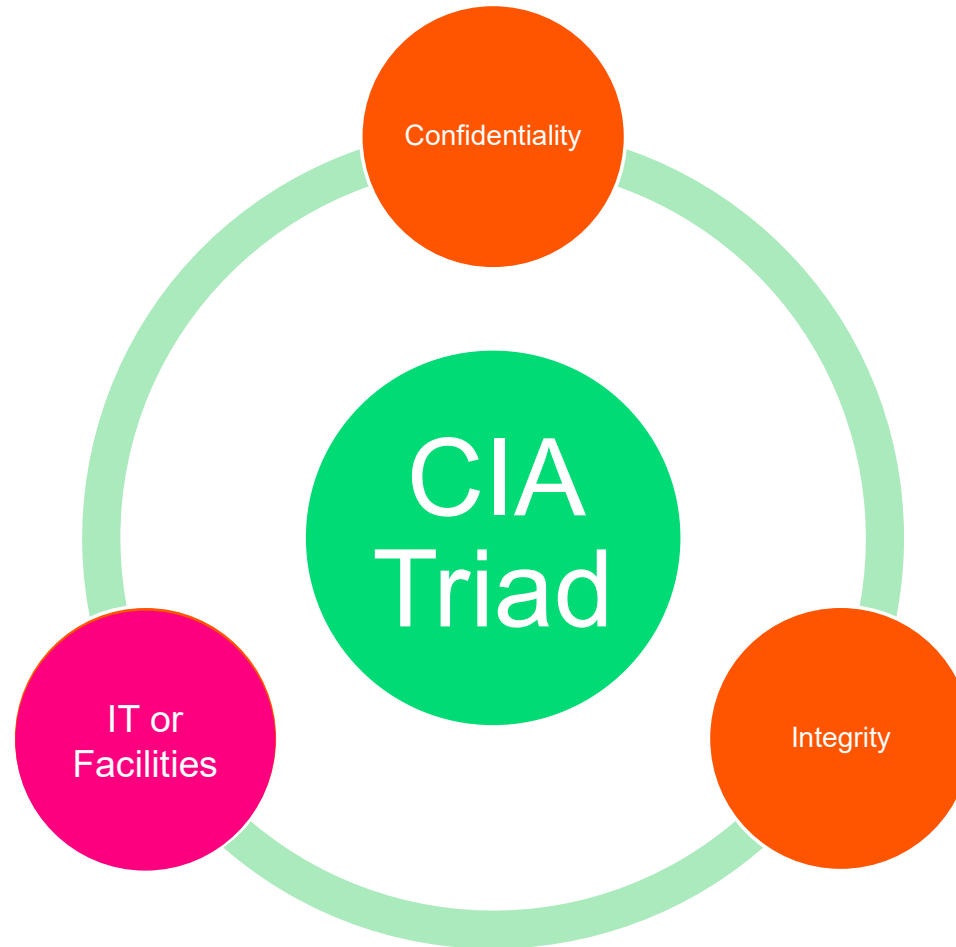


**Normalyze**

 **CYERA**

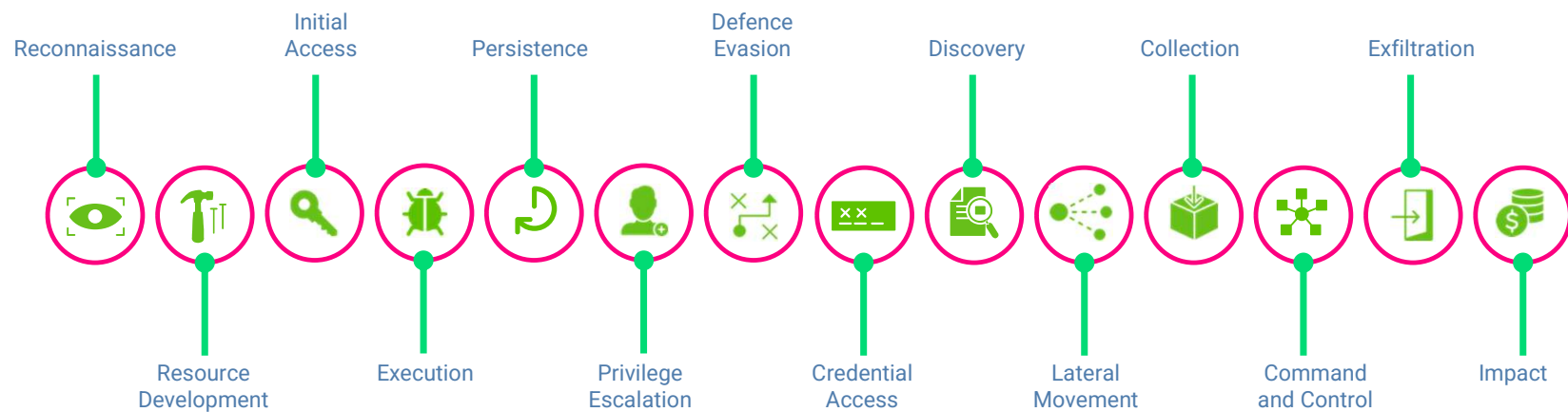
 **securiti**

# What risks are we managing?

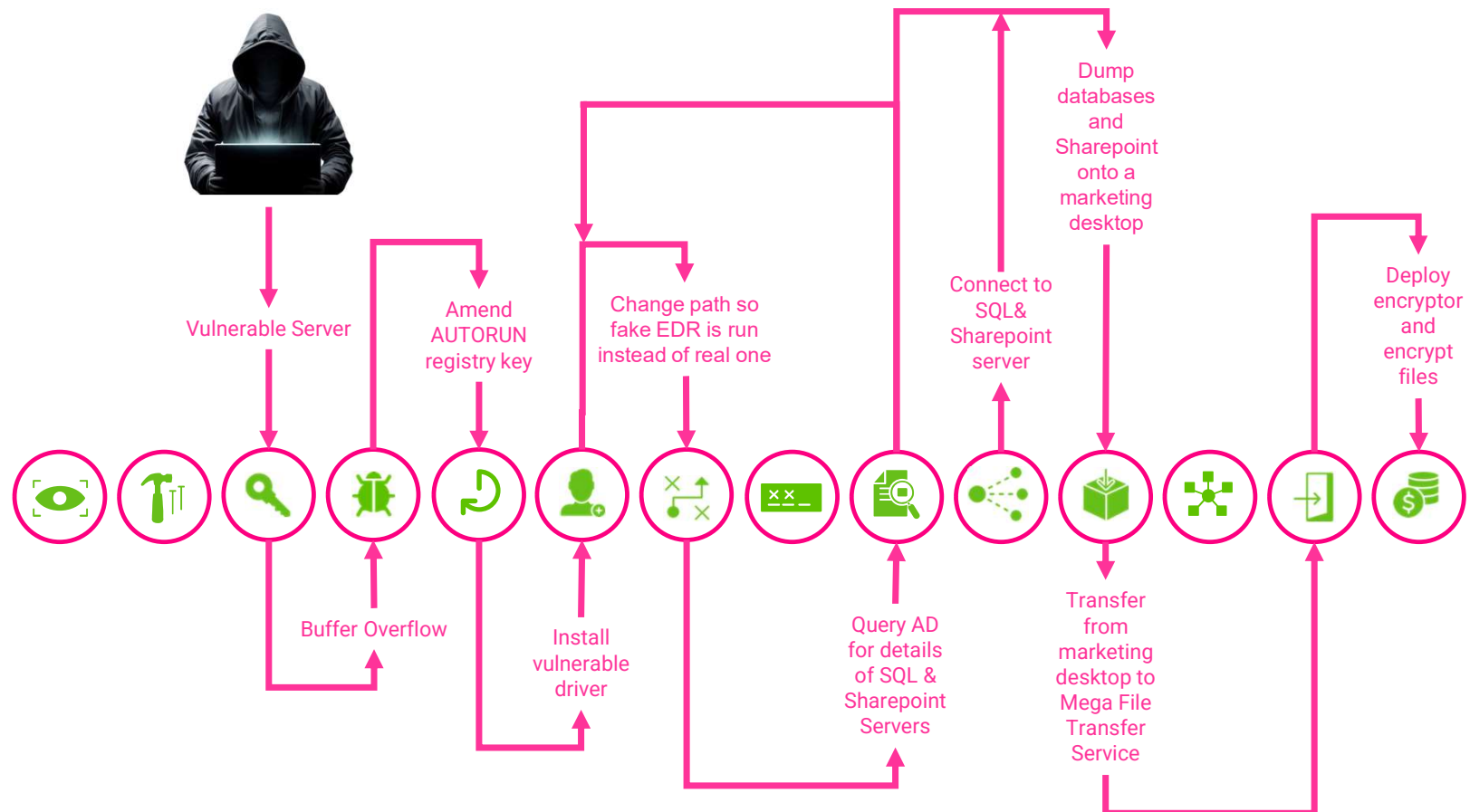


<https://www.nccoe.nist.gov/publication/1800-26/VoIA/index.html>

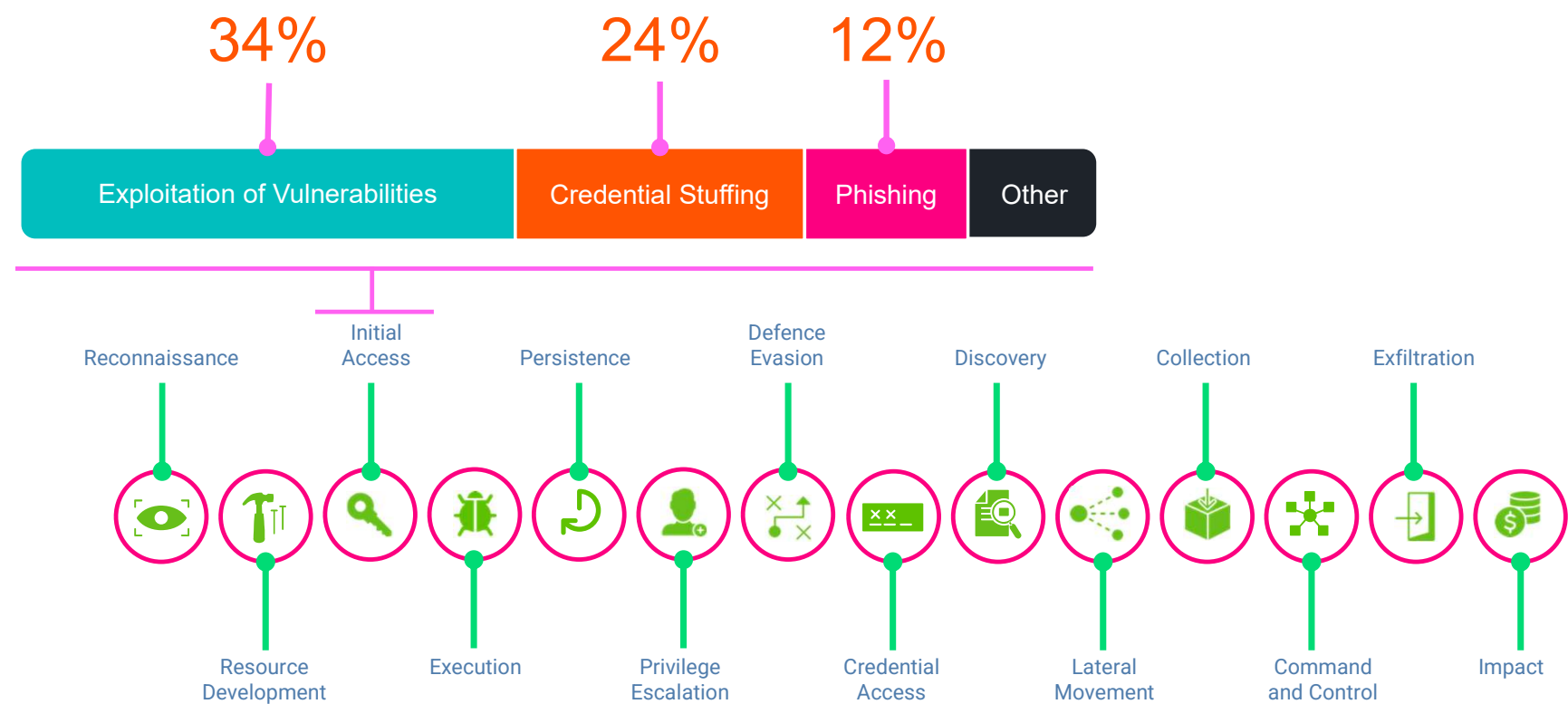
# MITRE ATT&CK



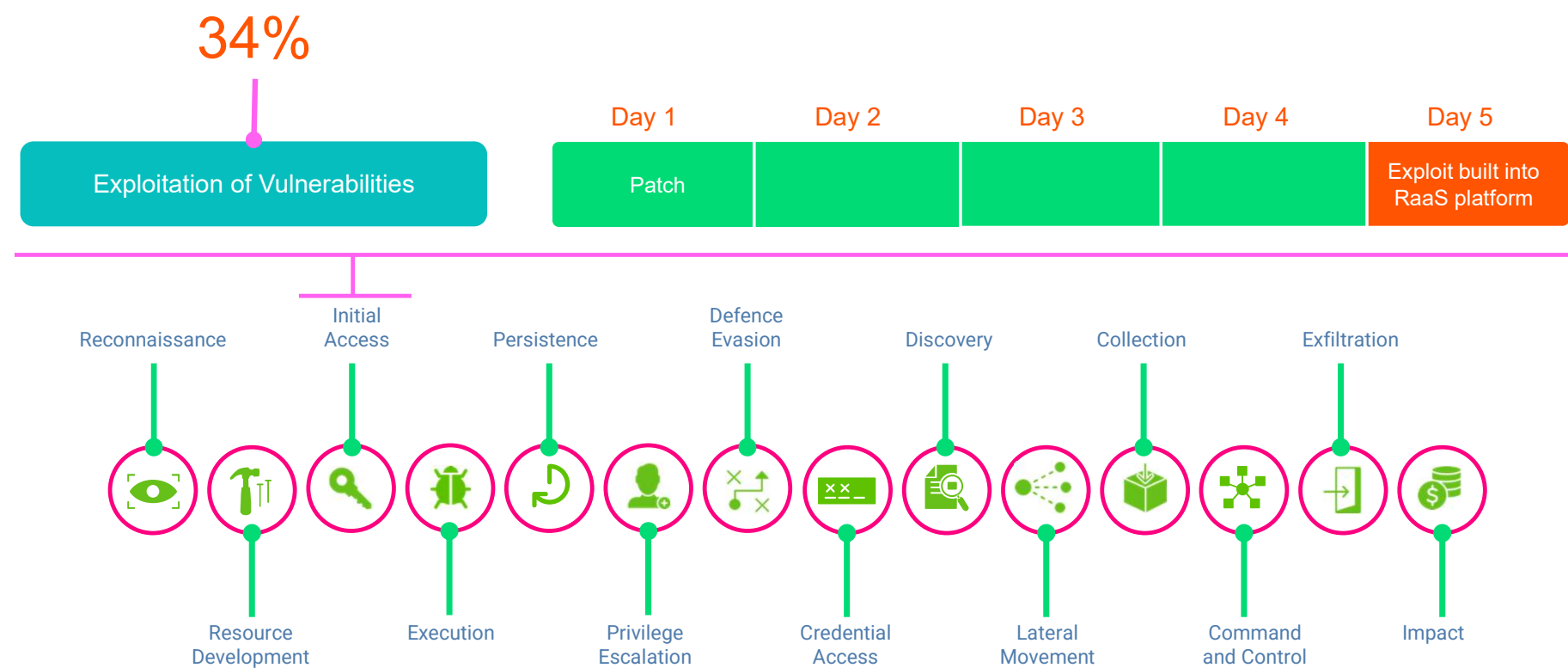
# Ransomware isn't a single malware binary



# Business Continuity & Disaster Recovery vs Cyber Recovery



# Business Continuity & Disaster Recovery vs Cyber Recovery



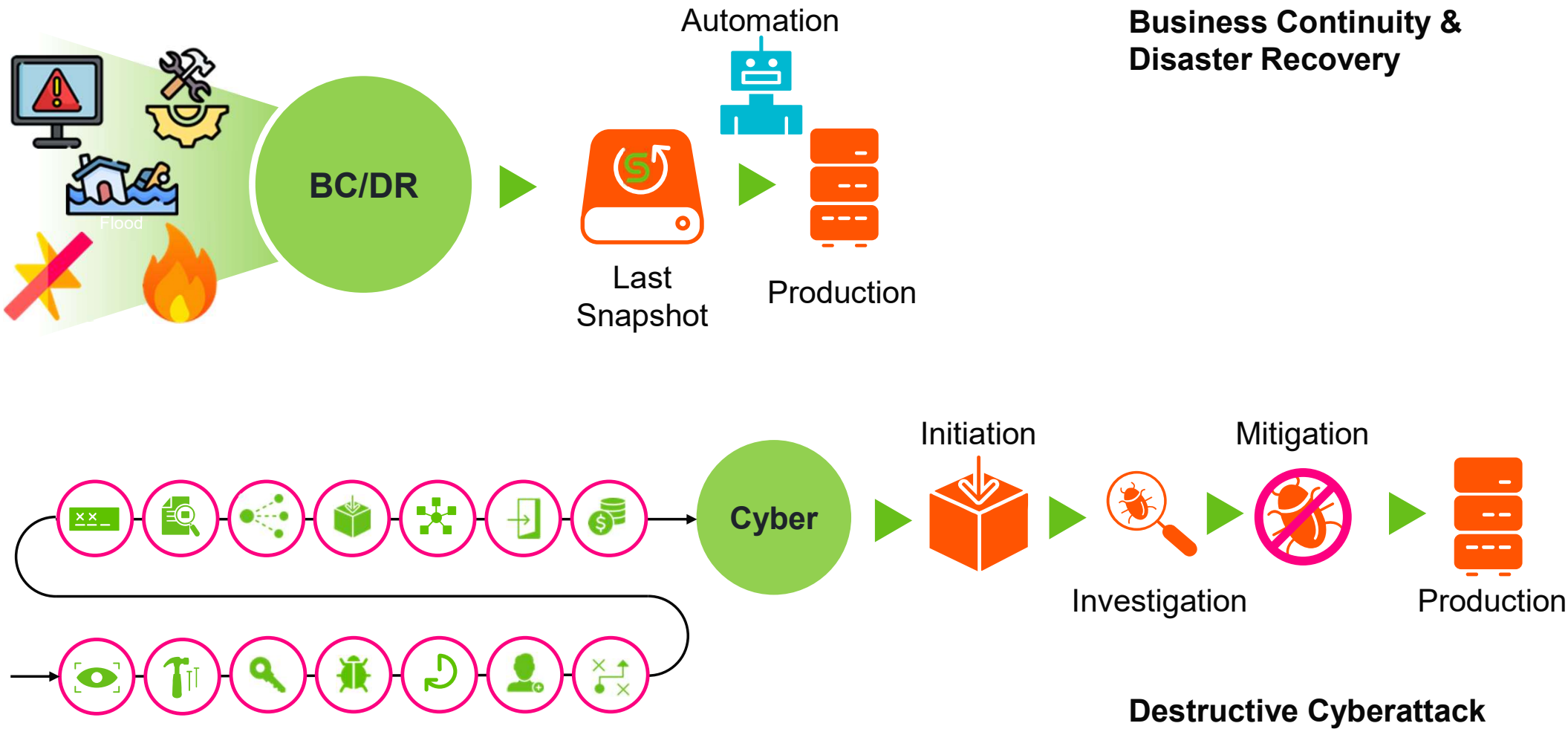




SYSTEM  
SECURITY  
BREACH

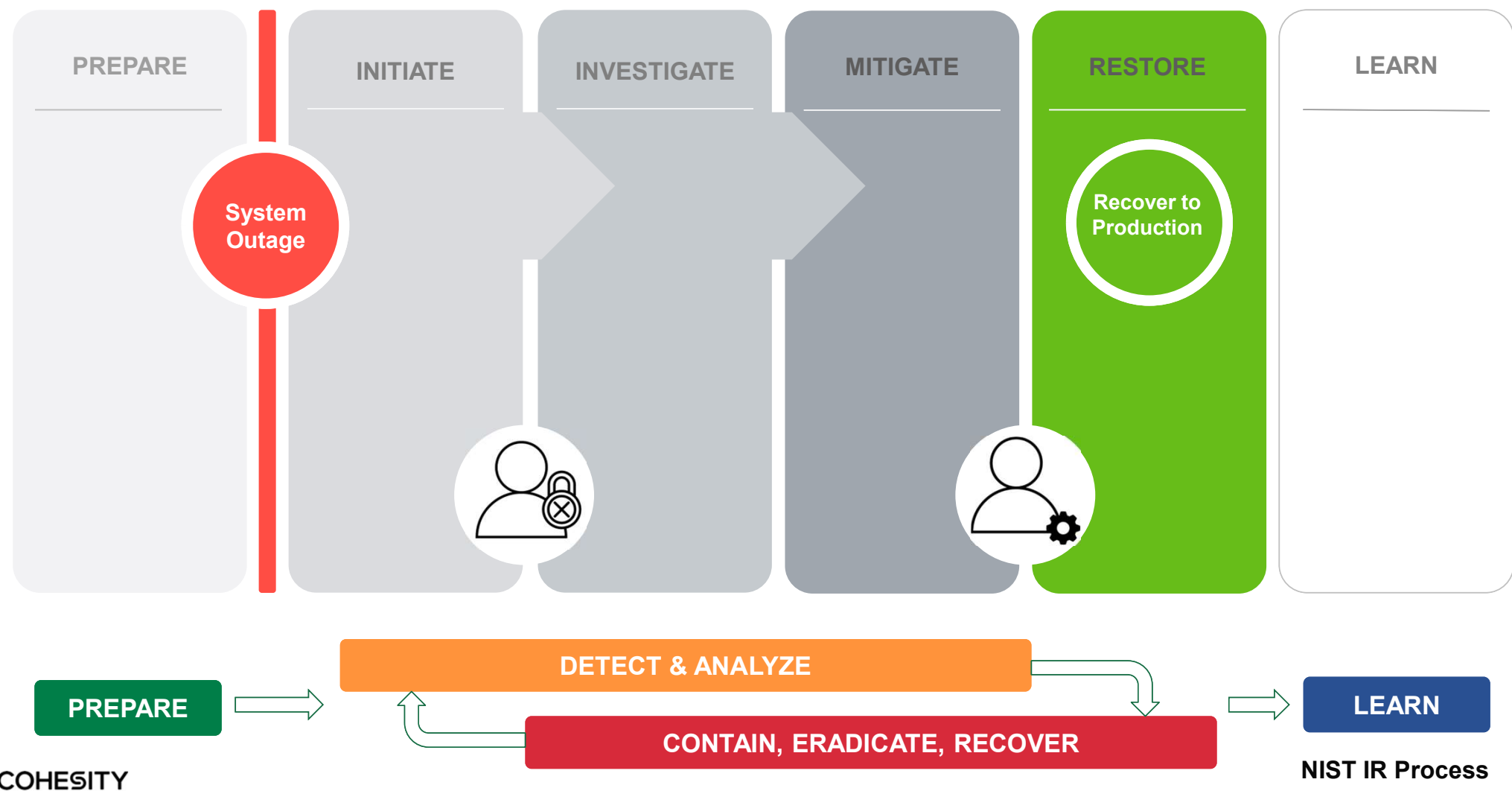
IT IS INEVITABLE.  
HAVE A PLAN. KNOW YOUR  
PLAN.

# Business Continuity & Disaster Recovery vs Cyber Recovery



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# Cohesity Incident Response Perspective



# Business Continuity & Disaster Recovery vs Cyber Recovery

## Business Continuity & Disaster Recovery



## Cyber Response & Recover





# Recover/Clean vs. rebuild: speeding RTO



COHESITY THREAT  
HUNTING & FORENSICS



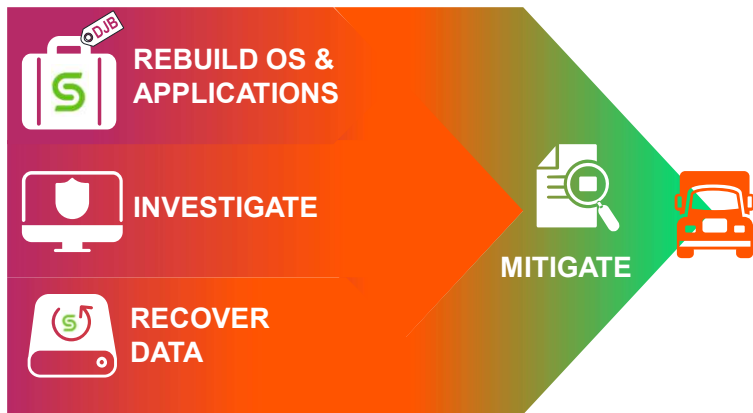
RECOVER  
VOLUMES



INVESTIGATE

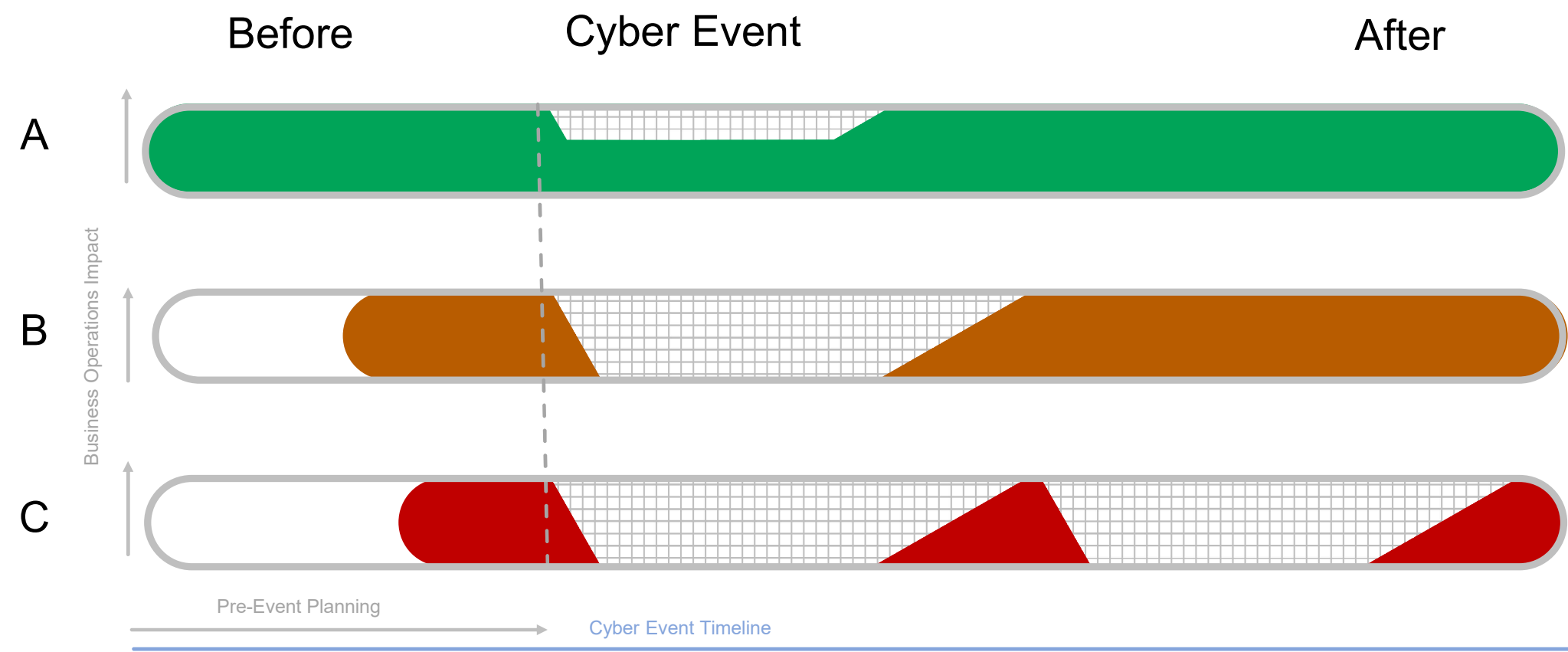


MITIGATE

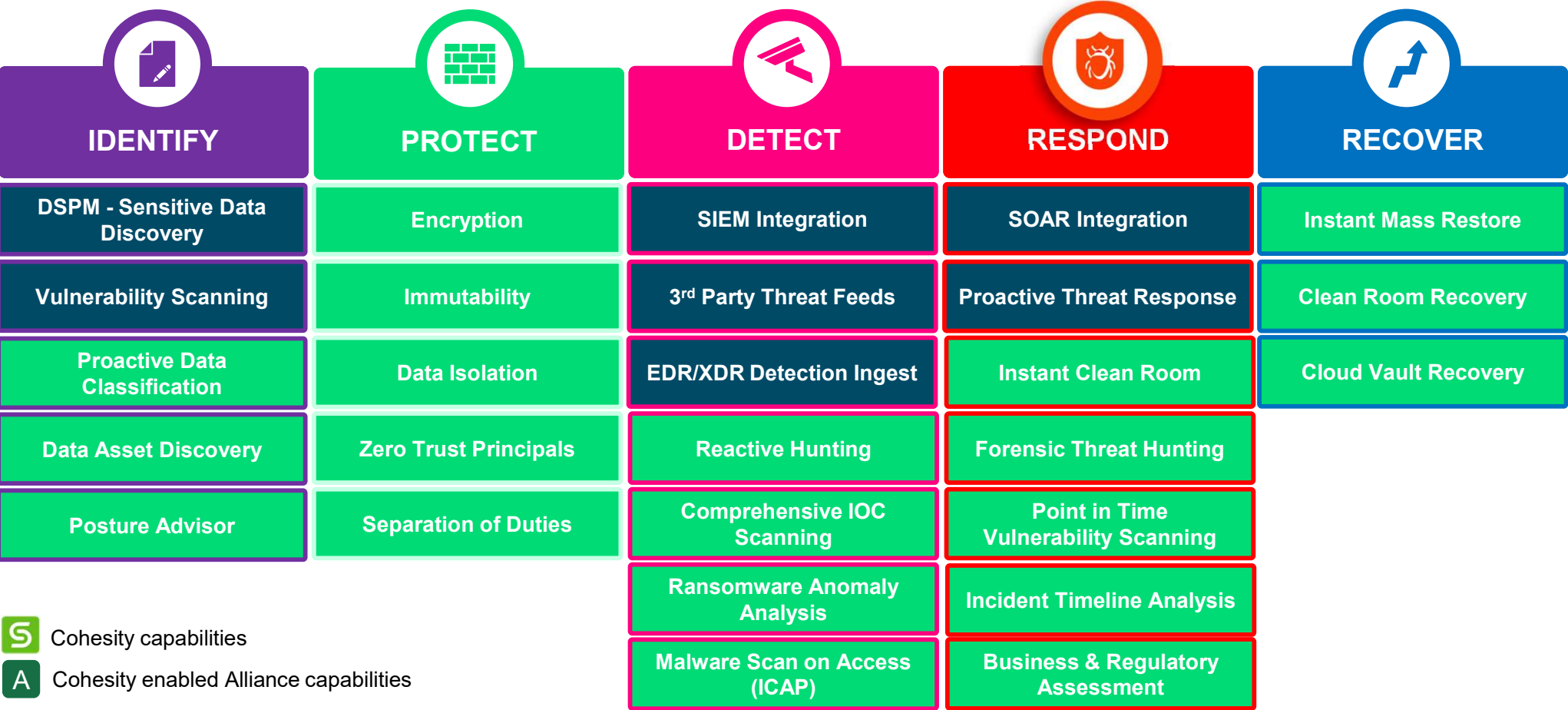


- Parallel activities
- Reduced investigatory & mitigated overhead

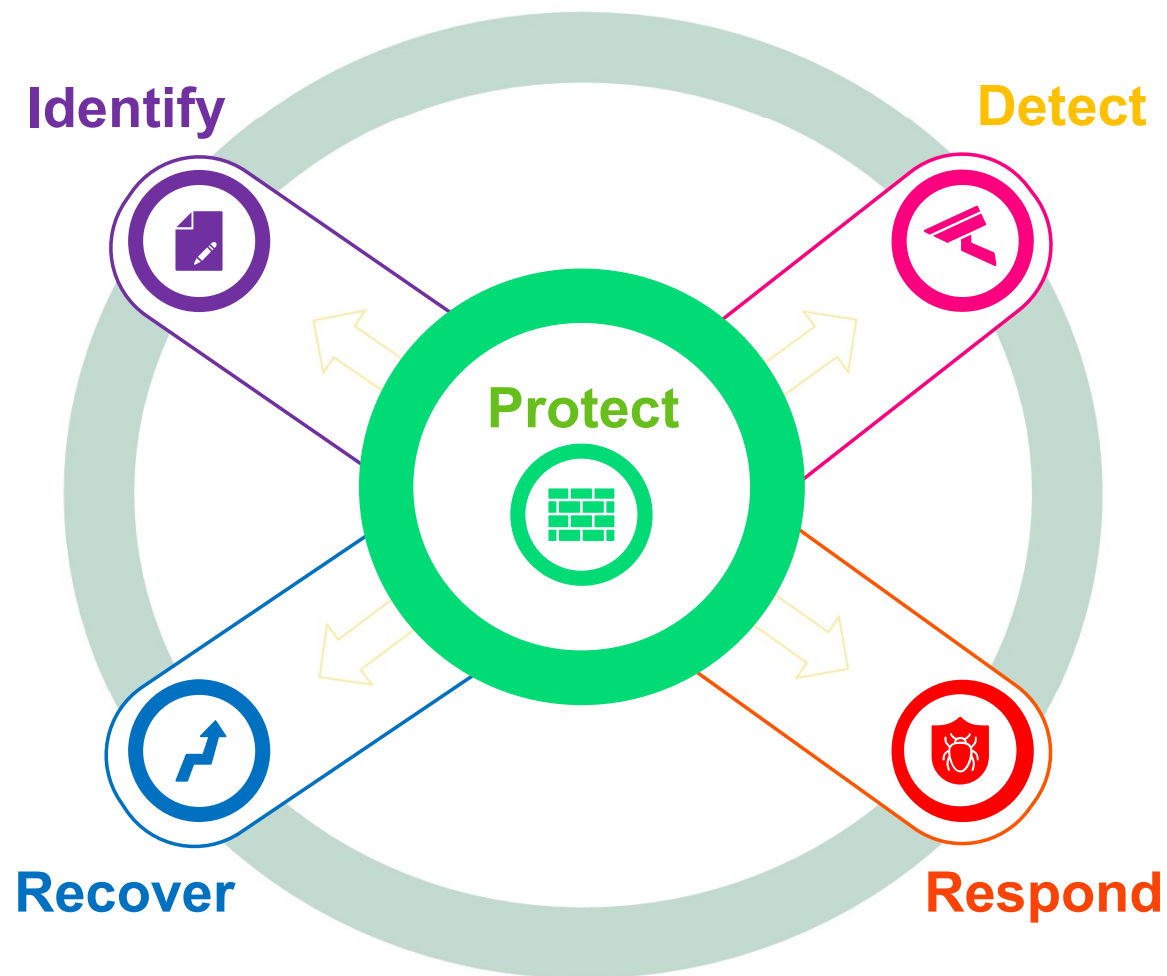
# Same Attack, Different Outcomes



# Cyber Resilience Capabilities



# Cyber Resilience Infrastructure is Hub and Spoke





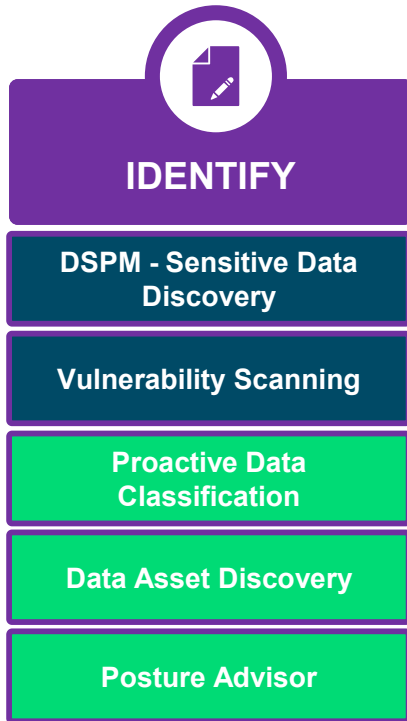
# Data Protection Is the Core of Cyber Security



## Intrinsic properties

- Read only file system
- Immutability by design
- Zero Trust principles
- Multi-factor authentication
- SSO integration SAMLv2
- Separation of duties (missile keys + who)

# Know The Mission Before You Begin



1. People, process and platforms
  1. Application owners
  2. Nontechnical too
2. What is your minimum viable company?
  1. What are your most critical applications and data?
  2. Scan and classification of data
3. Pressure testing
  1. Vulnerability and IoC scanning
  2. Highlight Configuration Drift
  3. Detect malicious re-configuration

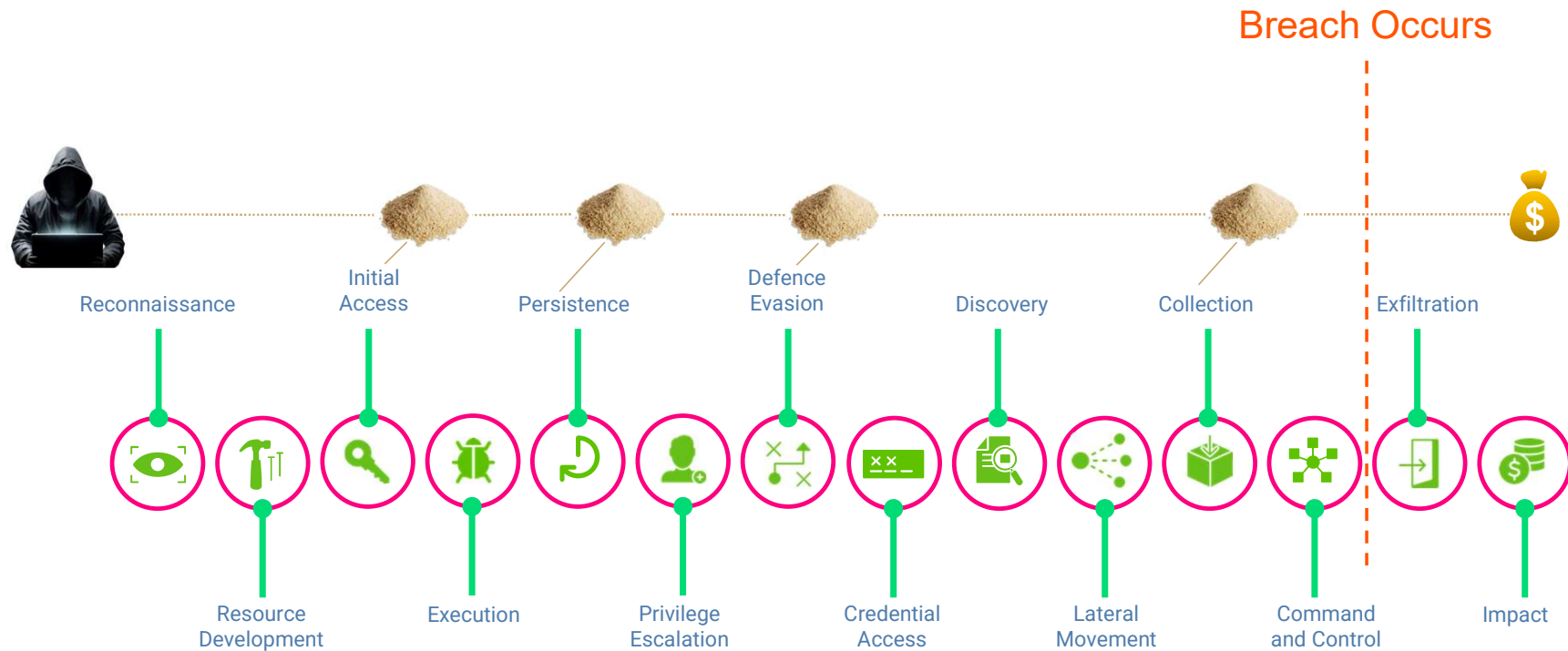


Cohesity capabilities

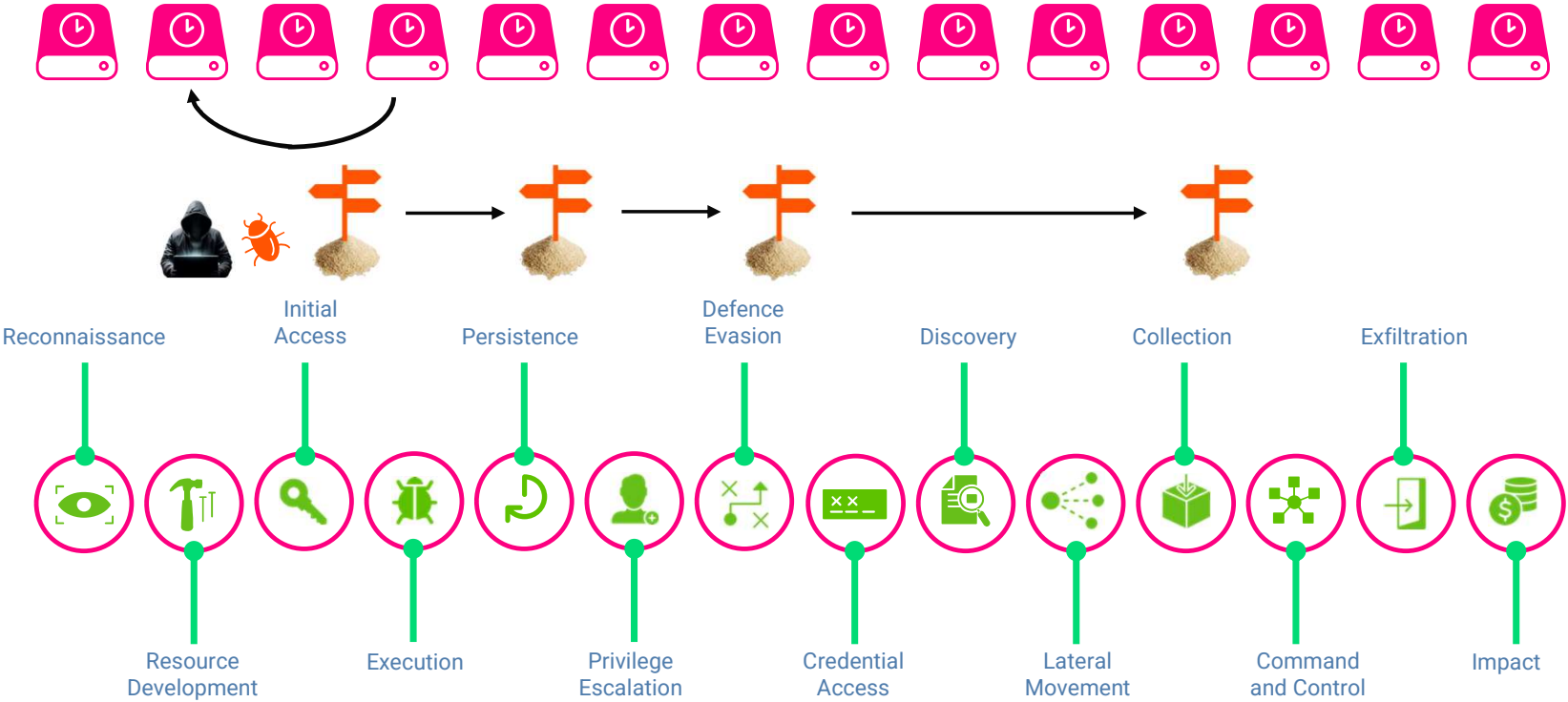


Cohesity enabled Alliance capabilities

# Indicators of Compromise



# Indicators of Compromise







# Hashing it out

334776db4ec6ff535f8ee96a6b7da83ca51b320cef4ba102d0da12660524a846

Which tools can see the threat?

TrendMicro

 Ransom.Win32.SODINOKIB.SMZTIC-B

ClamAV

 Undetected

How does it hide?

Registry Keys Set

- + HKLM\SOFTWARE\Microsoft\Windows Media Player NSS\3.0\Servers\A70D59A1-8EAD-4F40-AAAB-FBFC460800A4\FriendlyName
- + HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\BITS\StateIndex
- + HKLM\SOFTWARE\Wow6432Node\Microsoft\Windows\CurrentVersion\Run\FxHrqpLpWn

What processes run?

Process and service actions ⓘ

Processes Tree

- 1796 - %windir%\system32\DllHost.exe /Processid:{AB8902B4-09CA-4BB6-B78D-A8F59079A8D5}
- 1940 - svhost.exe
- 2668 - %SAMPLEPATH%
- 2800 - %windir%\system32\wbem\unsecapp.exe -Embedding
- 2812 - %windir%\system32\wssvc.exe
- 2892 - %windir%\System32\svchost.exe -k swprv
- 3028 - %SAMPLEPATH%
- 3040 - %windir%\system32\notepad.exe C:\tmp\zb5yi-readme.txt

# Detection, Smoke or Fire



Smoke

or



Fire

Anomalies detected before destination with active systems or,  
tailing indicators discovered by your backup threat detection



Cohesity capabilities



Cohesity enabled Alliance capabilities

# Speed and Confidence in Your Response



## RESPOND

SOAR Integration

Proactive Threat Response

Instant Clean Room

Forensic Threat Hunting

Point in Time  
Vulnerability Scanning

Incident Timeline Analysis

Business & Regulatory  
Assessment

## Speed & Confidence

1. Which is faster? Build vs. Restore
2. What is your incident termination criteria?

## There will be chaos

- Legal, chain of custody
- Who has the authority?
- Hot, warm or cold site
- Eradication and exit criteria
- How much is a manual process?

OS

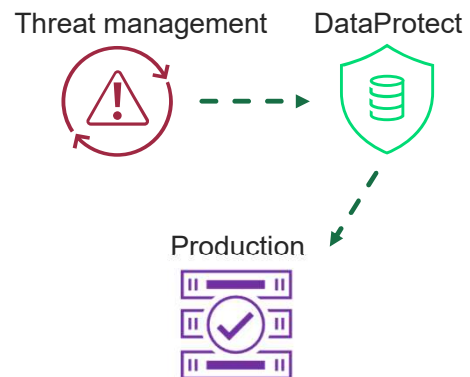
Apps

Files & Data



# Incident Response Flows

## Example A



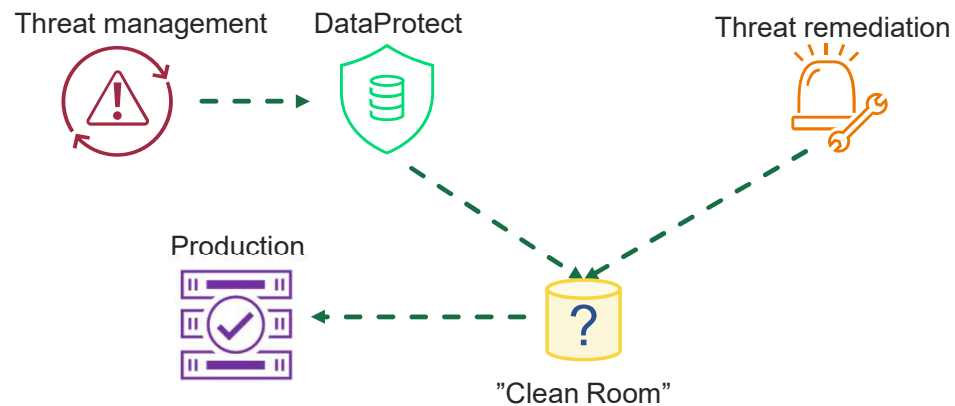
OS

Apps

Files & Data

# Incident Response Flows

## Example B



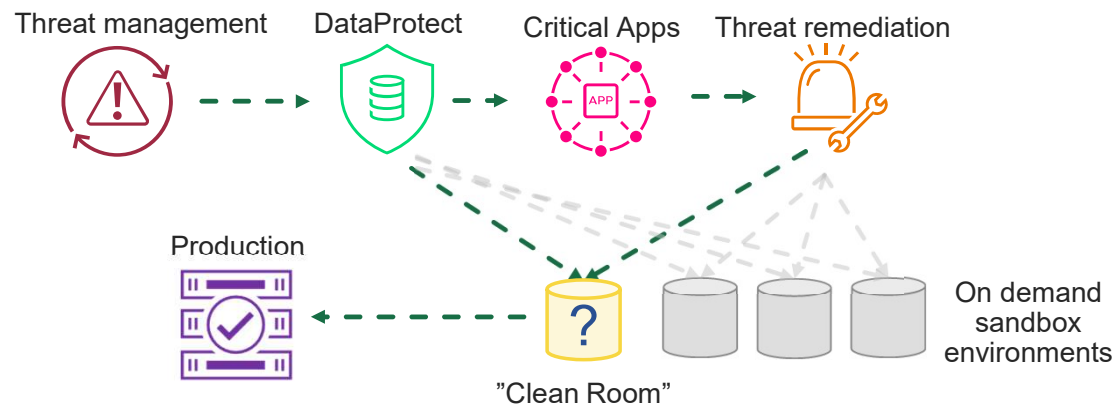
OS

Apps

Files & Data

# Incident Response Flows

## Example B

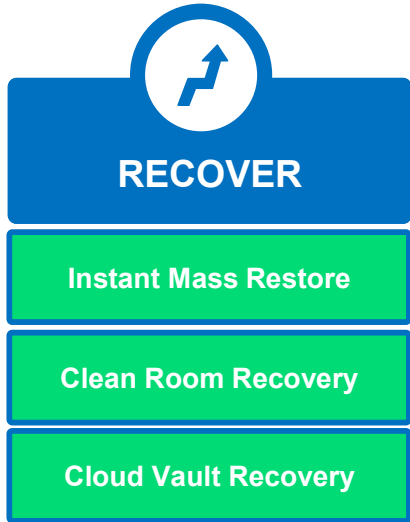


OS

Apps

Files & Data

# Recovery, The Last Mile



1. All data has been returned to associated primary systems
2. Getting all business owners to sign off on back to normal operations
3. Many point operations / surgical recoveries
4. Meeting all SLA for applications and customers
5. Data Protection SLA back to normal

# Data Security Posture Checklist

Criteria	Rationale	Response
Are your backups <b>immutable</b> ?	Prevent premature deletion of backups.	Y / N
Are your backups <b>air-gapped</b> ?	Gold copy of last resort if primary is lost.	Y / N
Do you have an <b>offsite</b> copy of your backups?	Adhere to 3:2:1 rule for backup copies.	Y / N
Are your <b>backup servers and infrastructure hardened</b> (OS, application)?	Prevent attackers from accessing backup servers.	Y / N
Does the system <b>detect insecure configurations</b> automatically?	Avoid configuration drift and insecure options.	Y / N
Do you use <b>RBAC, MFA, and quorum</b> to control access to backups?	Prevent a single privileged user from taking malicious action on backups.	Y / N
Is the <b>RPO</b> and <b>RTO</b> for workloads formally defined?	Understand business requirements for recovery SLAs.	Y / N
Are cyber recovery scenarios <b>tested</b> on a regular basis?	Prove that recovery infrastructure and processes are viable.	Y / N

# THANK YOU

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