



Incident Response Team - Under Construction!

Eran Salfati, Lital Badash et al



Intro



Forensics

The Active Cyber Defense Cycle

The Sliding Scale of Cyber Security

Asset ID & Monitoring Architecture Passive Defense Threat Incident Active Defense Intelligence Response Intelligence Offensive

Forensics

The Sliding Scale of Cyber Security

Passive Defense

Active Defense

Intelligence

Offensive







Supply Chain



Patch & Backup



Awareness

Passive Defense

Active Defense

Intelligence

Offensive



Network Architecture



Anti-Malware



IDS



Diode

Passive Defense

Active Defense

Intelligence

Offensive

SCADA Security – Where Should we Start?

Eran Salfati et al

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Passive Defense

Active Defense

Intelligence

Offensive



Passive Defense

Active Defense

Intelligence

Offensive





Internal Sources External Sources

Passive Defense

Active Defense

Intelligence

Offensive



Offense for Defense

Active Defense

Architecture

Passive Defense

Active Defense

Intelligence

Offensive



TTP's –
Tactics
Techniques
Procedures

Baseline Collection Detection Analysis

Reverse Eng Behavior Static Automated

After

Before

Incident Response



Preparation

Detection

Containment

Eradication

Recovery

Lesson Learned

Before

While

NIST SP 800-61

Detection

Containment

Eradication

Recovery

Lesson Learned





Detection

Containment

Eradication

Recovery

Lesson Learned



Pre Preparation

Skills

Previous knowledge

Team Size

Interfaces

Organizational Structure

Tools

Safety

Procedures

Evidence Collection Toolkit

Event Management Center



Routine

Detection

Containment

Eradication

Recovery

Lesson Learned



Know Architecture

Know Risks

Baseline

Instruction

Reports Study

"Forensability"

Training



Policy & Procedures Update





Chain of Events

Dynamic Data

Static Data



Detection

Preparation

Containment

Eradication

Recovery

Lesson Learned



Initial Forensics

Timeline

Whitelist

Assessment



Initial Report

Detection



Containment

Eradication

Recovery

Lesson Learned



Safe Operational continuity



Prevention of proliferation

Detection

Containment



Eradication

Recovery

Lesson Learned



Remove & Clean

Restore from Backup



Patch & Update

Detection

Containment

Eradication



Recovery

Lesson Learned



Back to Operation



Validation & Verification

Detection

Containment

Eradication

Recovery



Lesson Learned

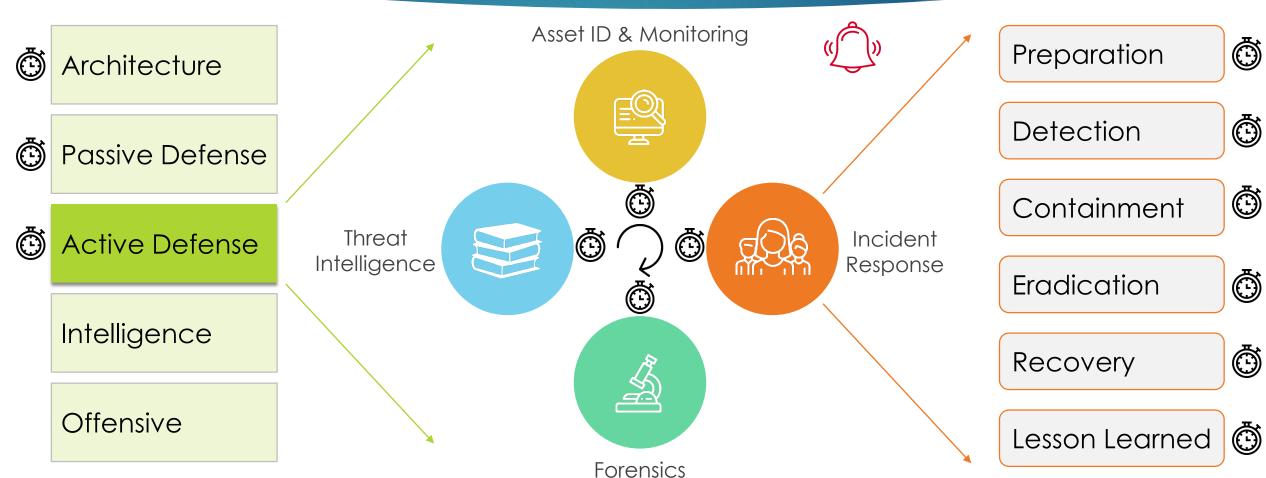


Final Report

&

Share

Summary







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Thanks!

