

네트워크 보안 자동화를 통한 비즈니스 위협 방어

박달수 부장 (Brian Park)

Security Team Leader, Juniper Korea



모바일 단말의 네트워크 연결 ... 시작에 불과





이제 곧 모든것이 연결된 세상이 옵니다

Security is also in Transformation



정교한 위협

- 제로데이 공격
- APT (Advanced, persistent, targeted attacks)
- Adaptive malware



클라우드

- 가상화 그리고 SDN
- 클라우드로의 전환
- Application 확산



IT 인프라 변화

- Hybrid cloud deployments
- Device 확산 그리고 BYOD
- IoT

Today's Threats Are More Complex Than Ever



638M Attacks in 2016 (167x increase from 2015)

\$1B Extorted in 2016



85% Organizations Have Seen Attacks

\$1.6M Average Financial Cost



1Tbps Attack From 150,000 IoT Devices

DDoS-as-a-Service
Offered on Dark Net



390,000 Malicious Programs Registered Daily

18M New Samples Captured in 2Q2016

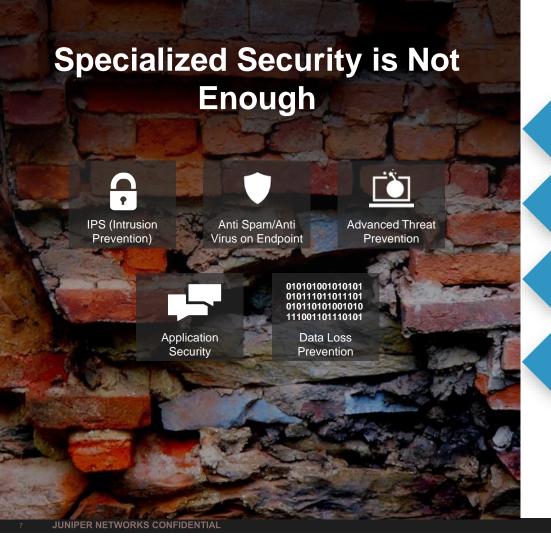




사이버 보안 = 사이버 범죄 퇴치

- Black Hat 해커의 80 %가 조직적인 범죄에 연루
- 사이버 범죄로 인한 피해는 2019년까지 2.1조 달러에 이를 전망
- 공격이 서비스 형태로 거래 Fraud-as-a-Service, Extortion-as-a-Service and more are here today



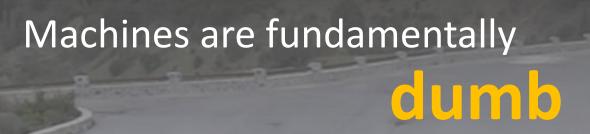


Isolated security functions

Multiple vendors and interfaces

Intelligence not shared

Unmanaged risk to business

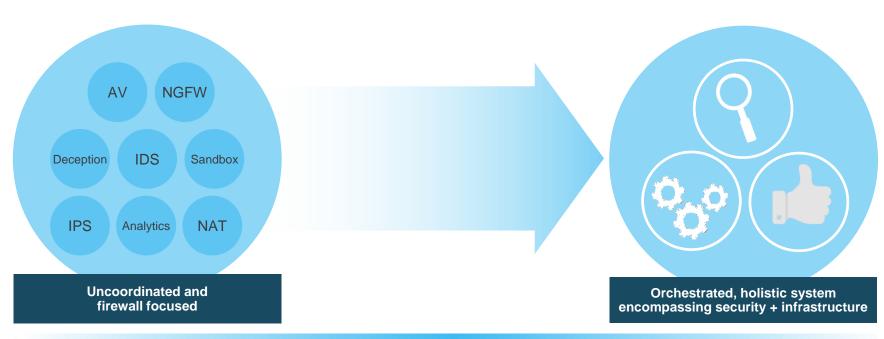




Good for following instructions
Not lateral thinking



Demanding Software Defined Secure Networks



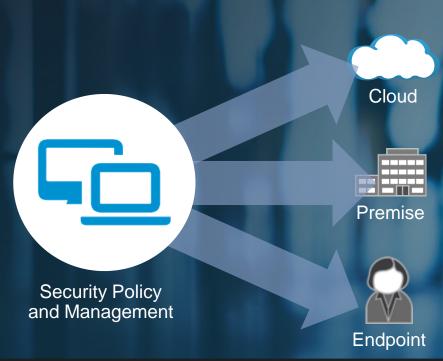
Global Policy Orchestration, Policy Engine

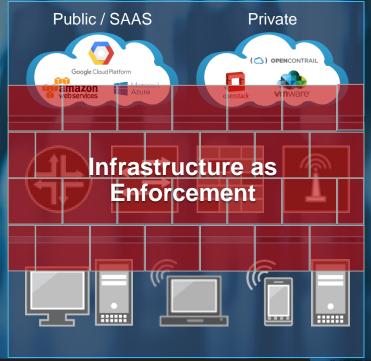
Open and Unified Threat Detection

Dynamic, Automated Enforcement

Define Once, Detect and Enforce Everywhere

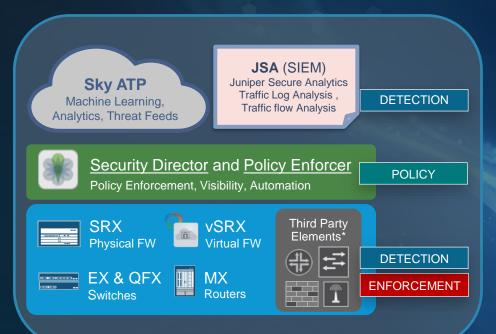
Pervasive, Automated, Intent-driven





Software Defined Secure Network (SDSN)

Pervasive, Automated, Intent-driven



POLICY

Create and centrally manage policy with an intent-based system

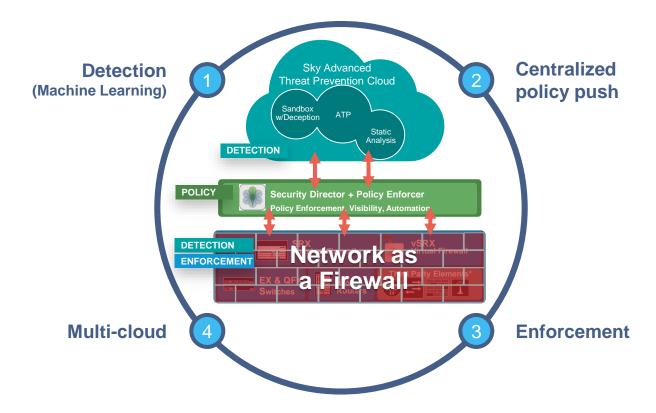
DETECTION

Unify threat intelligence from multiple sources

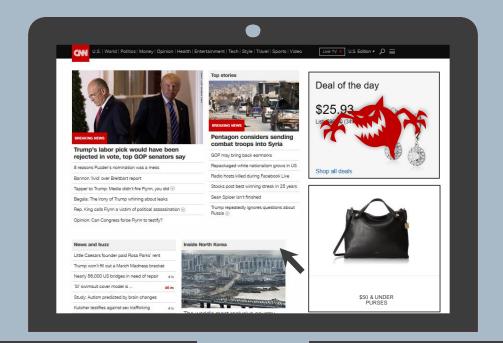
ENFORCEMENT

Automatically enforce policy across sites and cloud

Software Defined Secure Networks: Network As A Firewall



Sky Advance Threat Prevention

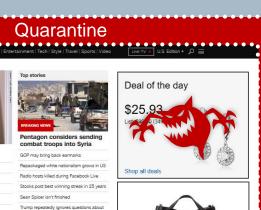






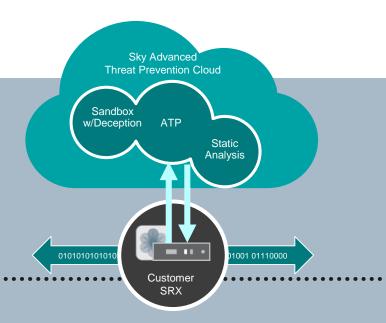
Sky ATP

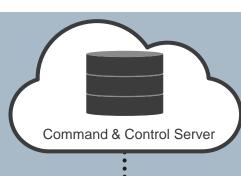
ors say



\$50 & UNDER HEELS

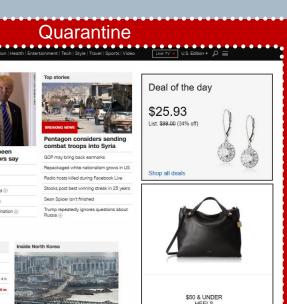








Sky ATP





Threat vector bypasses IT desktop/server based AV

While Juniper Sky ATP immediately detects the malware and quarantines the user



You cannot trust websites. Active threats cannot be managed with reactive security solutions

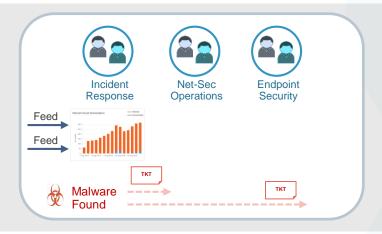


Solution: Deploy security policies which incorporates active & dynamic threat prevention with Sky ATP

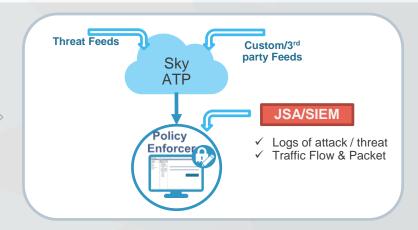


SDSN – Threat Management

Manual Threat Workflows



Threat Management Automation







Cohesive Threat Management System



Automation across Network & Security



Open API and 3rd Party Threat Feed Collation

SDSN Security Alliances



CASB





Cloud App Security



Access Security





Access Security





Endpoint Protection





SDSN for the SDDC

Ready to Deploy Comprehensive Security Solutions



Every THING on Your Network is a Potential Threat



Normal behavior: call home beacons, energy utilization

Anomalous behavior: bursting traffic, abnormal high data download rate

Is this normal? How do we mitigate risk?



Build More than Network Security

Align your security to your business imperatives
Create and centrally orchestrate policy

Stop sophisticated cyber crime

Gather and distribute threat intelligence across your network

Identify risk sooner

Leverage cloud economics for real-time analysis

Automatically apply enforcement in real time – secure the network in real time

