

Defending Against Unkown Automation is the Key

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\$400 Billion

Average cost of a large company data breach \$4,800,000

Expected worldwide cost of data breaches in 2019...

"When" and not "if" you will get attacked !









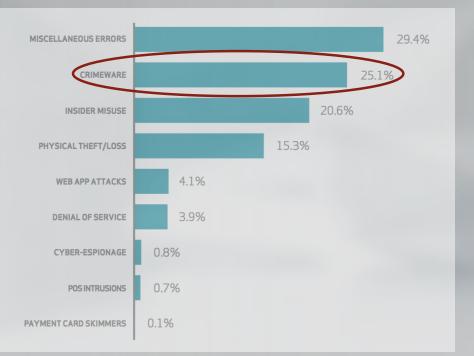


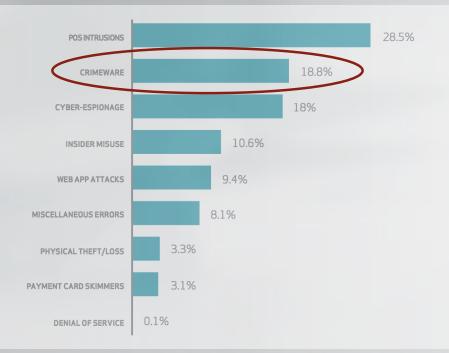




ON AVERAGE, ATTACKERS GO UNDETECTED FOR OVER **229** DAYS

Root cause of Security Incidents & Data Breaches Malware is the biggest threat vector





Incident Classification in Confirmed Breaches

Source: Verizon 2015 DBIR Juniper Networks Confidentia

Incident Classification





Cyber Warriors



Ability to withstand and quickly recover from cyber attacks and other cyber-related incidents

How do we combat new breed of hackers?

Treat internal network like internet

✓ Every port in the network is untrusted
✓ All communications are encrypted
✓ Threats are quarantined in real time



Secure Networks

CALL TO ACTION

Software Defined Secure Network

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KEY INDUSTRY CHALLENGES

200

1 STATIC ENFORCEMENT POINTS

2 THREAT INTELLIGENCE IS LIMITED

3 EVASIVE MALWARES ARE GAINING GROUND

4 BUSINESS IMPACT

5 BUDGET CONSTRAINTS

Four Functions

- Predict
- Prevent
- Detect
- Respond

Software-Defined Secure Networks

Unified Cybersecurity Platform



Unifies security across many clouds and diverse environments

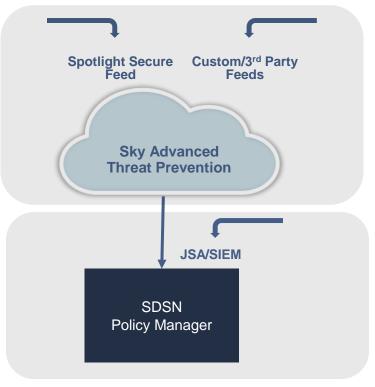
Executes automated enforcement and remediation to network devices

Open architecture and suite of APIs

Leverages entire network and ecosystem for security

JUNIPE

Unified Threat Detection

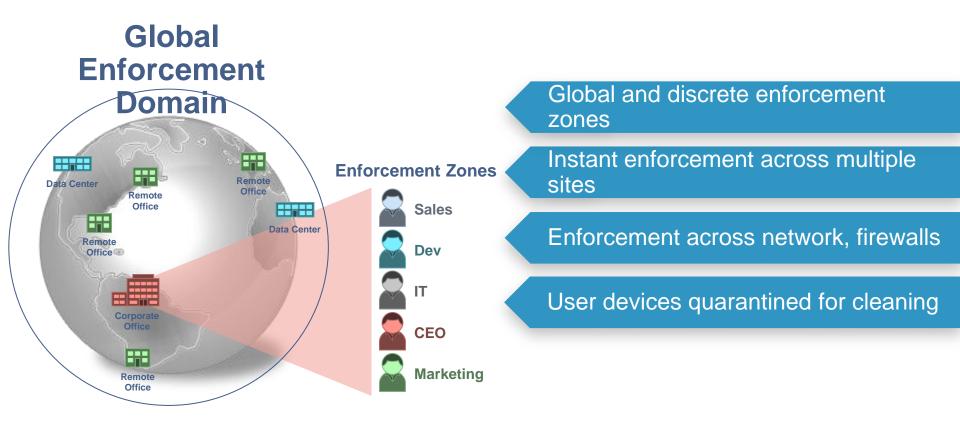


Open threat feeds platform: Juniper, third party, custom

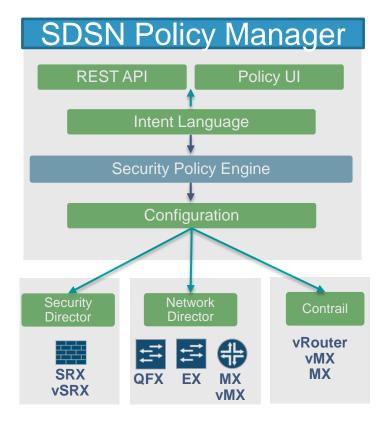
Single view of threats for better visibility across enterprise

Unified feed curated for false positives and duplication, and given threat severity rating

Automated Enforcement



Global Policy Orchestration



Single policy across security and networking systems

Intent driven policy translated to configurations

Juniper and 3rd party support

Deception and Provocation

- Deception Sandbox Agent
 - Emulates a realistic user environment
 - · Generates a realistic pattern of user interaction
 - · Creates fake high value targets in client
 - Creates vulnerabilities
 - · Provokes malware to exercise its full playload
 - Detects obvious malware actions

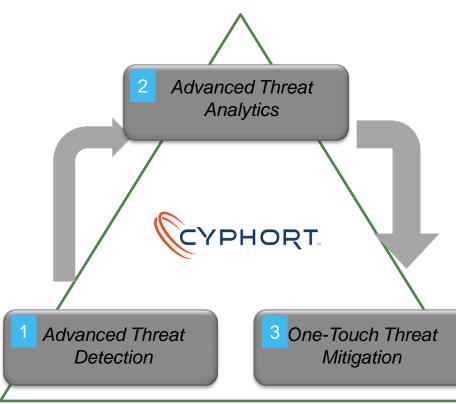


Juniper's Sky Advanced Threat Prevention looks for over 300 different malware behaviors and includes over 50 different deception techniques to provoke malware into revealing itself.

Deception: Convince it it's on a valid target to get a reaction **Provocation**: Poke it with a stick and see how it reacts



Cyphort Advanced Threat Protection



Detection

- On-premise solution that can detect advanced threats across web, email and lateral traffic
- Machine learning + behavior analysis + threat feeds

Analytics

- Improve productivity of SOC and IR teams by automating manual activities
- Timeline view of all security events that have occurred on a host or user

Mitigation

- Leverage existing security infrastructure to mitigate threats
- Automatically block malicious IPs, URLs and infected hosts

Strategy for Futureproof Cybersecurity

ANY NETWORK ASSETS



Unified enforcement domain

ANY CLOUD



Consistent, automated defense across diverse environments

ANY VENDOR



Open ecosystem for threat intel sharing and integration

Keep your organization safe from cyber criminals with a unified cybersecurity platform from Juniper Networks, powered by automation, machine learning and real-time intelligence



- Data loss (71%), ransomware (55%) and IoT (26%) are among the threats currently considered to be of a major concern to respondents' organizations
- Less than one third (31%) of those surveyed report that the cybersecurity solution(s) used within their organization have done exactly what they promised to do
- Approaching nine in ten (87%) surveyed IT and security professionals believe that cybersecurity tools with artificial intelligence/machine learning capabilities would be of great benefit to their organization

Thank you

