RSA*Conference2016

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The Shift to a 24/7 Security
Landscape: Why Cloud Security
Is the Answer



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Discussion Topics

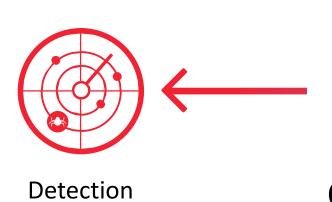


- What's our state of security?
- Where do we enforce security?
- Can we get ahead of attacks?









Is our security posture effective?



Remediation

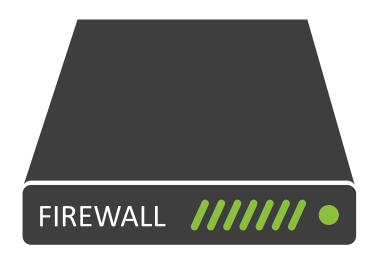


Can we predict attacks?





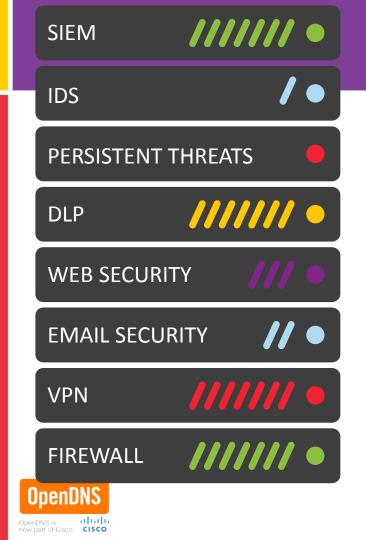




Last 20 years of security:

Got a problem? BUY A BOX







The OLD security stack...



We need simplicity





Q

Google Search



But simple isn't easy





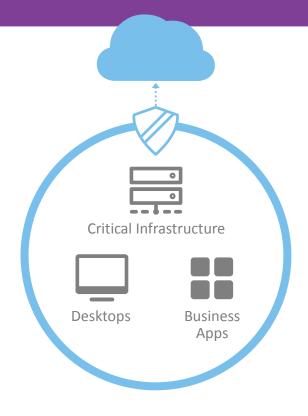
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Where Do We Enforce Security?

The Shift from Old to New



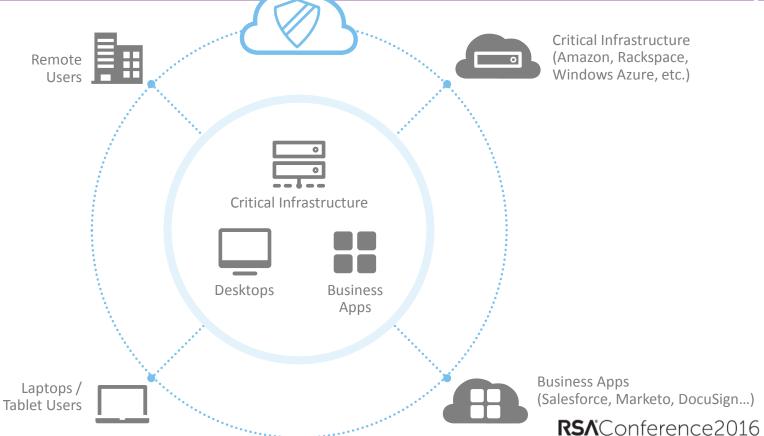




The Shift from Old to New

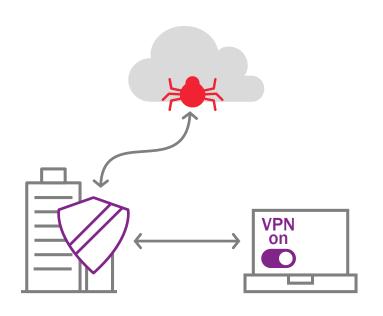
OpenDNS is now part of Cisco. CISCO.





You Cannot Rely on the VPN





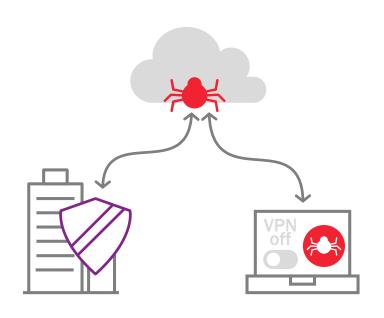
Last 20 years of off-network security:

REMOTE ACCESS



You Need a New 24x7 Security Landscape



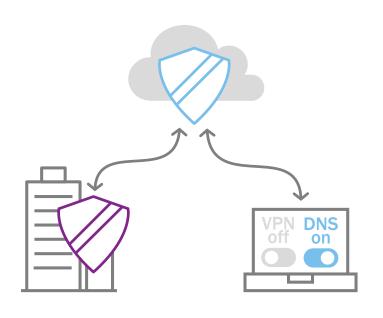


But the VPN is not on 24x7...



You Need DNS-Layer Network Security





DNS is the Internet's control plane



DNS Works on Any Device, Anywhere

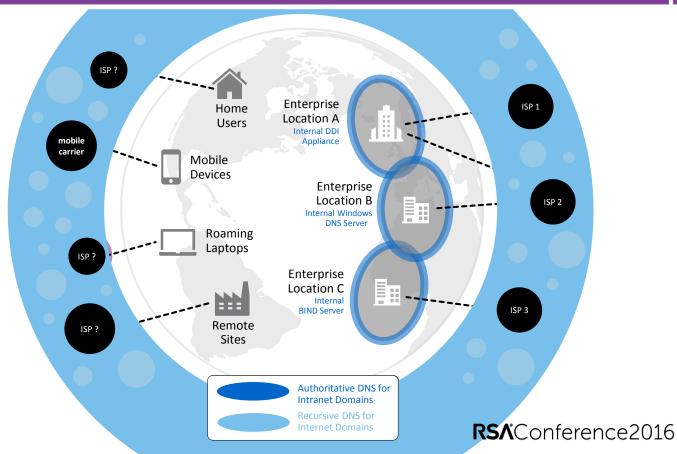


BENEFITS

Global Internet Activity Visibility

Network Security w/o Adding Latency

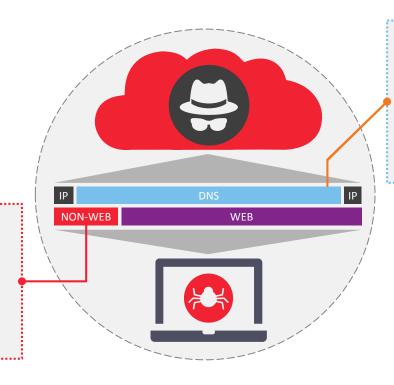
Consistent Policy Enforcement





DNS Blocks Threats That Others Miss





91%

of C2 can be blocked at the DNS layer

15%

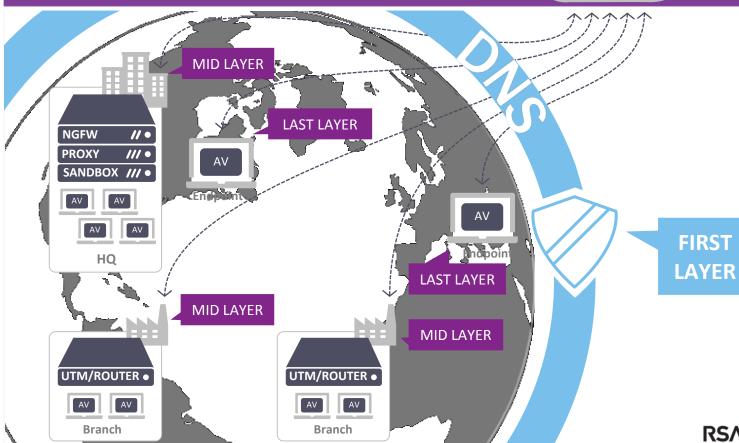
of C2 bypasses Web ports 80 & 443



DNS Blocks Threats Before They Reach You

MALWARE
C2/BOTNETS
PHISHING INTERNET





BENEFITS

Reduce alerts by 2-10x

Block malware before it hits the enterprise

Contain malware if already inside

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DNS is the Easiest and Fastest way to Establish a 24x7 Security Landscape



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Can We Get Ahead of Attacks?

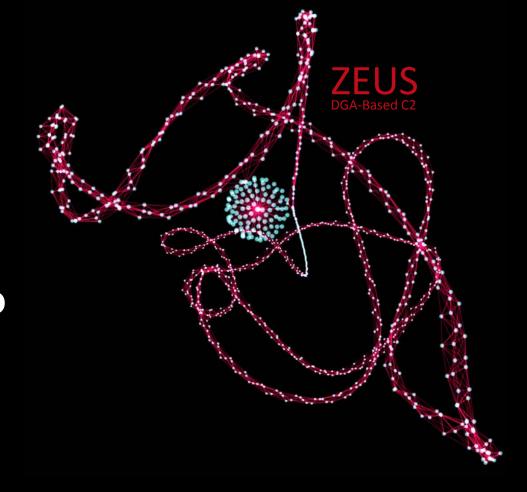


First, Gather a Significant Percentage of All Internet Activity in Real-Time



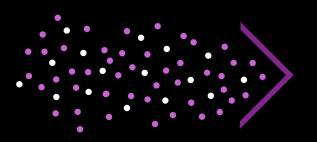


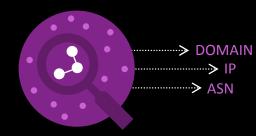
Second, Identify New Patterns by Applying Human Intelligence to Data Visualizations





Third, Automatically Identify Where Attacks Are Staged by Applying Statistical Models to The Data









Apply what you have learned today













ENFORCEMENT 24x7 security landscape

consistently adapt



Apply what you have learned today



Next week...

- start gathering your DNS logs for visibility
- evaluate how often laptops connect off-network

Next month...

find a non-VPN/proxy solution to extend network security beyond the perimeter

Next quarter...

start analyzing your DNS logs for threat intelligence



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Thank You

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