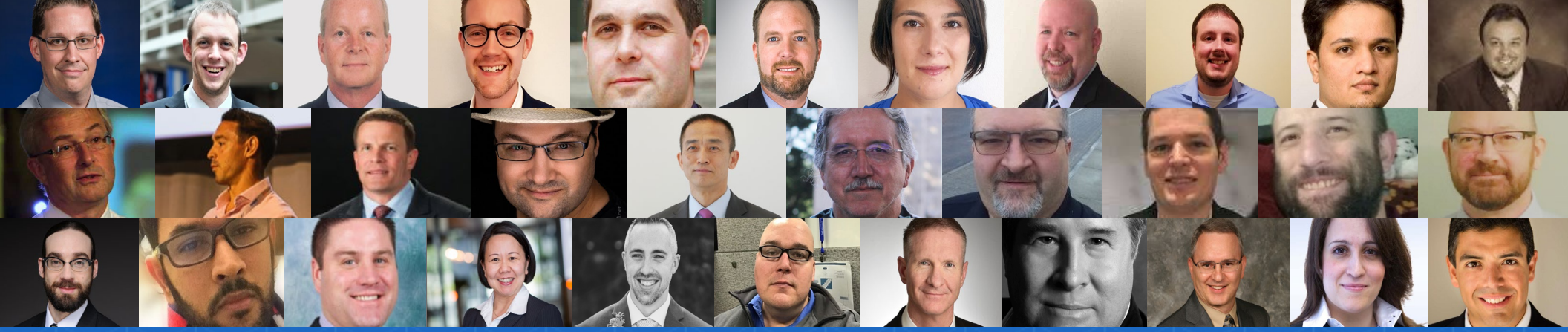

Mighty Guides

32 Security Experts

on Changing Endpoint Security

CISOs and Information Security Experts Share Their Stories Around Changing the Endpoint Security Mindset

Sponsored by Carbon Black.

INTRODUCTION: ENDPOINT SECURITY

Without a doubt, endpoint security has become an urgent priority for many organizations, and it's not hard to see why. Industry research by IDC is showing that 70 percent of successful breaches enter through an endpoint. Other research shows that more than half of companies have been hit with successful attacks, and more than three-quarters of those attacks were fileless.

For many companies, the modern business environment has become a mobile workplace in which employees work from wherever they happen to be. The fact that people continue to be the weakest security link has made mobile PCs and extended networks a sweet spot for attackers. So how are companies responding?

To find out, we drilled into the question of endpoint security with the generous support of Carbon Black. We approached 32 security experts to discuss these aspects of endpoint security:

- **Keys to shutting down attacks**
- **Rethinking your network strategy**
- **Justifying the value of endpoint security**
- **Moving to a cloud-based next-generation platform for endpoint security**

In speaking to security experts from a number of different industries, two things are clear. Endpoint security has become a critical piece of a broader security strategy, and securing the traditional network perimeter alone will not save you. One contributor observed that endpoints are in fact the new perimeter.

These essays contain useful and practical insights into evaluating endpoint security needs and implementing endpoint strategies. Regardless of how you think about the role of endpoint security in your overall strategy, I highly recommend that you read what these experts have to say.

All the best,
David Rogelberg
Publisher,
Mighty Guides, Inc.

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FOREWORD: ENDPOINT SECURITY

Everyday companies put more of their assets in digital form. Healthcare records, retail purchases and personnel files are just some of the many examples of how our entire lives have moved online. While this makes our interconnected lives more convenient, it also makes them more vulnerable to attack. The monetary benefits of exploiting these vulnerabilities have created an extremely profitable underground economy; one that mimics the same one we all participate in and has led to an increase in the sophistication and frequency of attacks.

At the same time, mobility and cloud are changing the security landscape. We've moved from a centralized to a decentralized model as end users increasingly work on-the-go and access critical business applications and resources from anywhere. As such there is more emphasis on the endpoint and individual identities - from both the defender and the attacker - than ever before.

As endpoints become smarter, new challenges emerge: emerging ransomware and 0-day exploits infect all kinds of systems with ease, while many attackers use no malware at all to accomplish their malicious goals. With all this change, we spoke to 32 leading security experts to identify what's working and how they've influenced their organization to make the necessary changes before becoming the next victim.

Regards,
Mike Viscuso
CTO and Cofounder of Carbon Black

Carbon Black.

Carbon Black (NASDAQ:CBLK) is a leading provider of next-generation endpoint security. Carbon Black serves more than 3,700 customers globally, including 33 of the Fortune 100. As a cybersecurity innovator, Carbon Black has pioneered multiple endpoint security categories, including application control, endpoint detection and response (EDR), and next-generation antivirus (NGAV). Leveraging its big data and analytics cloud platform – the Cb Predictive Security Cloud – Carbon Black solutions enable customers to defend against the most advanced cyber threats, including malware, ransomware, and non-malware attacks. Deployed via the cloud, on premise, or as a managed service, customers use Carbon Black solutions to lock down critical systems, hunt threats, and replace legacy antivirus. To learn more about Carbon Black visit www.carbonblack.com.

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Solutions now are almost doing real-time forensics at the endpoint.

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ROBERT HOOD

Security Solutions Architect, BJ's Wholesale Warehouse Club

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You're judged on how you respond to an incident. Early detection and quick response are key to that.

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WAYNE PETERSON

Chief Information Security Officer, Kroll Associates, Inc

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Early detection and response often minimizes the damage as it reduces the time an attacker has to infiltrate the next security measure.

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CHAD STORM

Cloud Network Security Engineer at IBM,
Global Team Lead, IBM

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It's important to be on the lookout for any abnormal behavior before an attack can escalate or expand across the organization.

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SCOTT SAUNDERS

Cyber Security Consultant, Exelon

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Whether it's an attack or a phishing email, the earlier you detect and respond the less of an impact it's going to have.

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SCOTT HARRIS

Vice President – Chief Information Security Officer, Lockton Companies

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Security and prevention are a very difficult sell. I have found using media reports of hacking that has destroyed companies and their top management in one fell swoop to be quite effective.

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OMAR TODD

Technical Director (CTO/CIO), Sea Shepherd Conservation

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The endpoint is kind of the perimeter for a lot of offices now.

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KEVIN FIELDER

CISO, Just Eat

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A good mix of prevention and detection is optimal.

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AARON LENNON

Security Architect, Critical Start

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As more of our IT resources shift to the cloud, and more workers become mobile, the importance of endpoint security increases.

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ELLIOTT BREUKELMAN

Senior Information Security Engineer, Land O'Lakes, Inc.

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Early detection and response is as important as having locks on your doors and windows.

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CLINT MENZIES

Senior Cyber Threat Engineer, Cyber Threat Detection & Response, Trustwave Managed Security Services

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My usual approach is to define a baseline security posture for the system.

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ALINA SARVEY

Endpoint Security Engineer, Managed Security Services Provider

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There are certainly metrics that one can use to detect whether the endpoint is the root cause or is involved in some way.

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PAUL HEFFERNAN

CISO, Unipart Group

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Evaluate the current state of the endpointsecurity posture: What are the gaps and where can it be improved?

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CARY DAHL

SHI, Principal Architect – Cloud & Security Solutions

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You need to structure your endpoint strategy so that you can leverage what it is delivering.

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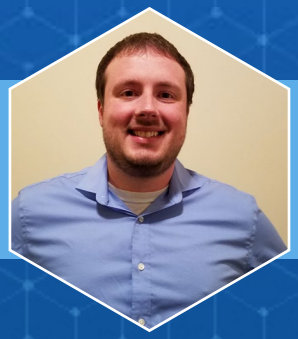

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KALIN KINGSLAND

Sr. Security Architect, Global Financial Services Organization

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When it comes to security, a layered approach is the best way to protect.

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CRAIG WILLIAMS

Security Design Architect, AOS

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With a strategic approach, you could solve an important problem that you really have, not just a threat you have identified in your program.

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BRENT MAHER

CISO, Johnson Financial Group

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We now have a metric that proves my team spends less time chasing those incidents.

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CATHARINA BUDIHARTO

Director, Information Security, CB&I

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A lot of the work that starts on one of our developers' laptops impacts our platform because we operate in a DevOps lifecycle.

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HARSHIL PARIKH

Director of Security, Medallia, Inc

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I can't begin to stress how important early detection and response is when it comes to mitigating threats and minimizing damage.

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AHMER BHATTY

Field Solutions Engineer - Networking and Security, SHI International Corp.

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It's especially helpful to present security information in the form of metrics and useful data points.

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MIKE SANTOS

Director of Security & Information Governance, Cooley LLP

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You've got to get those logs off the endpoint in near real time so you don't lose visibility to hackers cleaning up after themselves.

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CHRIS THOMPSON

Global Director, IT Security and Controls, Bentley Systems

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Never waste a breach. Use the cost of recovering from a previous breach to emphasize the ROI of doing things ahead of time.

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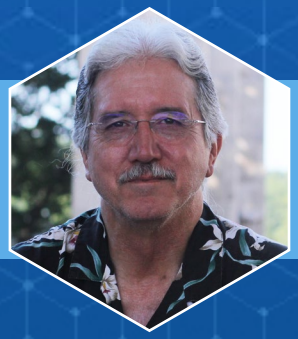

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RANDY MARCHANY

Chief Information Security Officer, Virginia Tech

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Honestly, it is extremely trivial in many cases to bypass antivirus.

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RICHARD DAVIS
Executive Director of IT Security,
Embry-Riddle Aeronautical University

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We're able to log event information to prove compliance, and we can also analyze how effective our controls actually are.

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BRIAN TIMMENY

Global Head of Advanced Engineering, DevOps, Engineering Processes, BBVA

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Prevention is great, but detection is an absolute must.

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CHRISTOPHER LAJINESS

Sr. Systems Engineer, Symantec

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Many of these technologies can help us answer a lot of questions more easily now than we could in the past.

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DAN BOWDEN

VP & CISO, Sentara Healthcare

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Business is transforming to a point where most user endpoints aren't inside the infrastructure.

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DAVID MERRILL

Senior Director, Travelers Insurance

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Effectively identifying the most severe cybersecurity threat and mitigating the most impactful attacks are imperative for cyber defense.

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CHARLES LI

CTO, Integration and Innovation Lead,
IBM GBS Cyber Security and Biometrics

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You need to think about how you are going to manage whatever you deploy.

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JOHN MEAKIN

CISO, Formerly Burberry

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It really falls upon the security professional to understand the business, and then understand the front landscape around it.

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DANIEL SCHATZ

CISO, Perform Group

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There will be a continued industry-wide shift from prevention only security strategies in favor of detection and response.

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BRIAN HUSSEY

VP of Cyber Threat Detection & Response, Trustwave

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You have to be able to trust the results. You want a company that demonstrates it can obtain information and control everything all around the world.

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ISABEL MARIA GOMEZ

Group Information Security Manager, Bankia