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WEBINAR

CENTER FOR
DIGITAL
EDUCATION

October 20, 2020

CAMPUS MODERNIZATION: HOW TO MINIMIZE CYBERSECURITY RISKS



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CAMPUS MODERNIZATION: HOW TO MINIMIZE CYBERSECURITY RISKS

MODERATOR



Kecia Ray, Ed.D.
Senior Fellow, Center for Digital Education



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FEATURED SPEAKERS



James Morrison
Distinguished Technologist,
Cybersecurity (Formerly with
the FBI Cyber Task Force),
Hewlett Packard Enterprise



Marc Kravitz
Hyperconverged
Category Manager,
Hewlett Packard Enterprise



Scott Koehler
US SLED Category Manager,
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SECURING EVERYTHING, EVERYWHERE

THE INSTITUTION OF THE FUTURE

Edge-centric

Cloud-enabled

Data-driven

WHERE DATA FLOWS, SECURITY MUST GO

The background image is a composite of four aerial photographs. From left to right: a port with many colorful shipping containers and yellow cranes; an industrial facility with complex piping and structures; a multi-lane highway with many cars; and a modern living room with a white sofa, a coffee table, and a TV. A network diagram is overlaid on the image, consisting of blue lines connecting circular nodes. The nodes are placed at various points across the four scenes, suggesting a global or interconnected network. A central white box with a dark blue border contains the text.

Maintaining control in a world where every device is storing and computing data means building trust into every touchpoint

CYBER SECURITY REQUIRES A MORE HOLISTIC APPROACH



Data is the new currency

Loss of function is the new weapon

With many intelligent devices independently processing, data and control must be secured at every point

Protect
new vulnerabilities

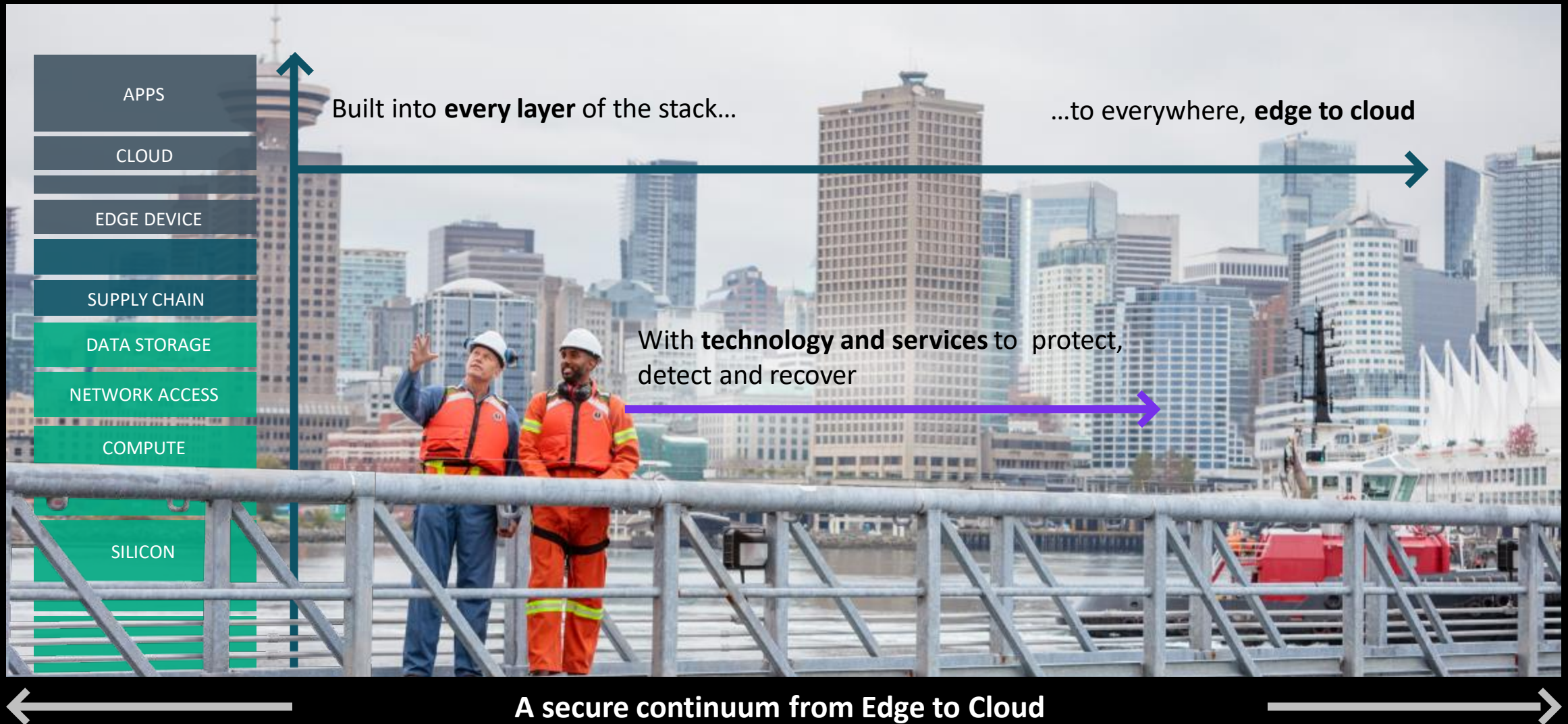
Detect
intruders fast

Recover
quickly from an attack

CAN THE THREAT BE MITIGATED THROUGH INNOVATION?

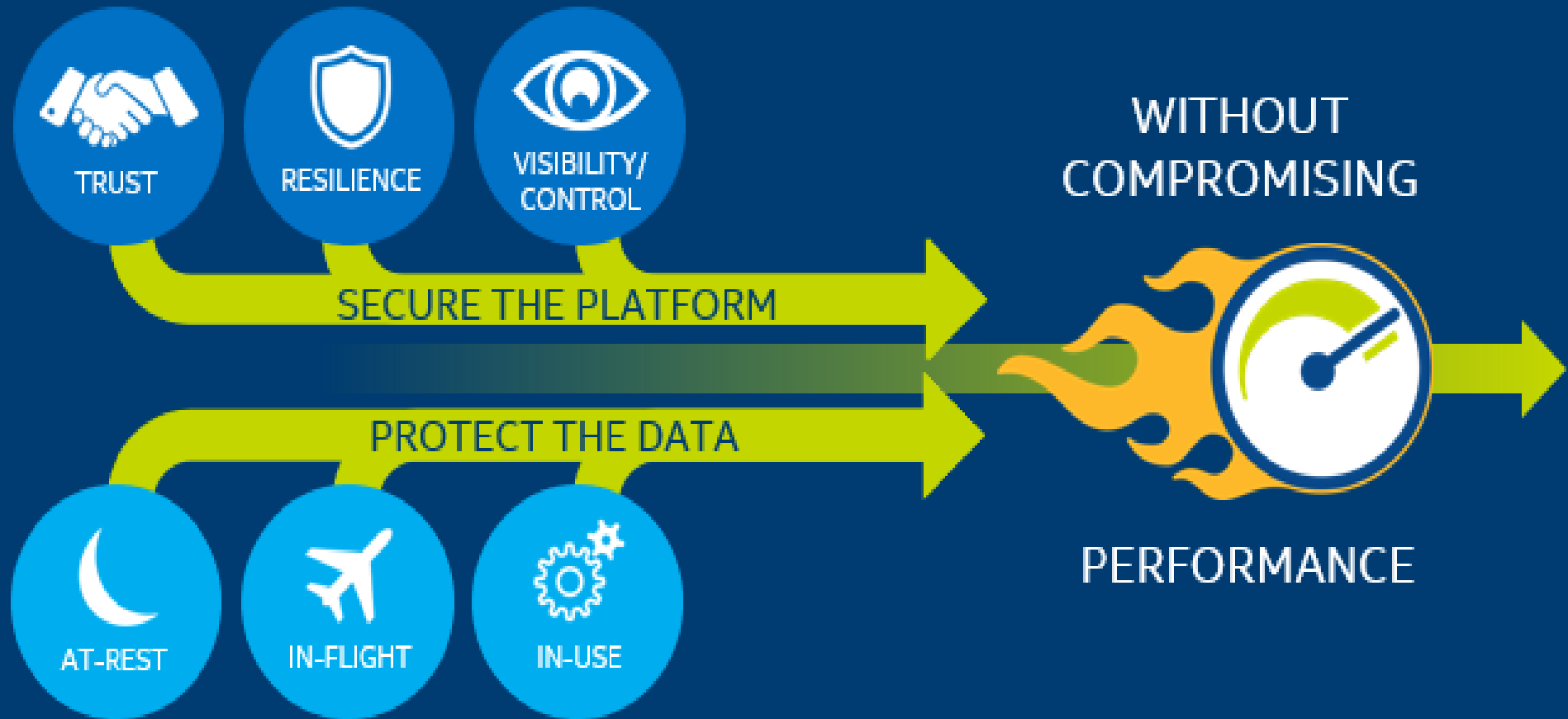
- **Massive Change is underway**
 - Hyper-connected world
 - Incredible data growth
 - Hybrid IT the new “normal”
- **Cyber threats are everywhere**
 - We can't eliminate the threat
 - Firmware is now a target
 - Supply chains are now a target
 - Threat is from the outside – and – from within
- **What's the answer?**
- Can continued innovation mitigate the threat?

AT HPE, WE BRING SECURITY IS PART OF EVERYTHING WE DO



DATA CENTER SECURITY

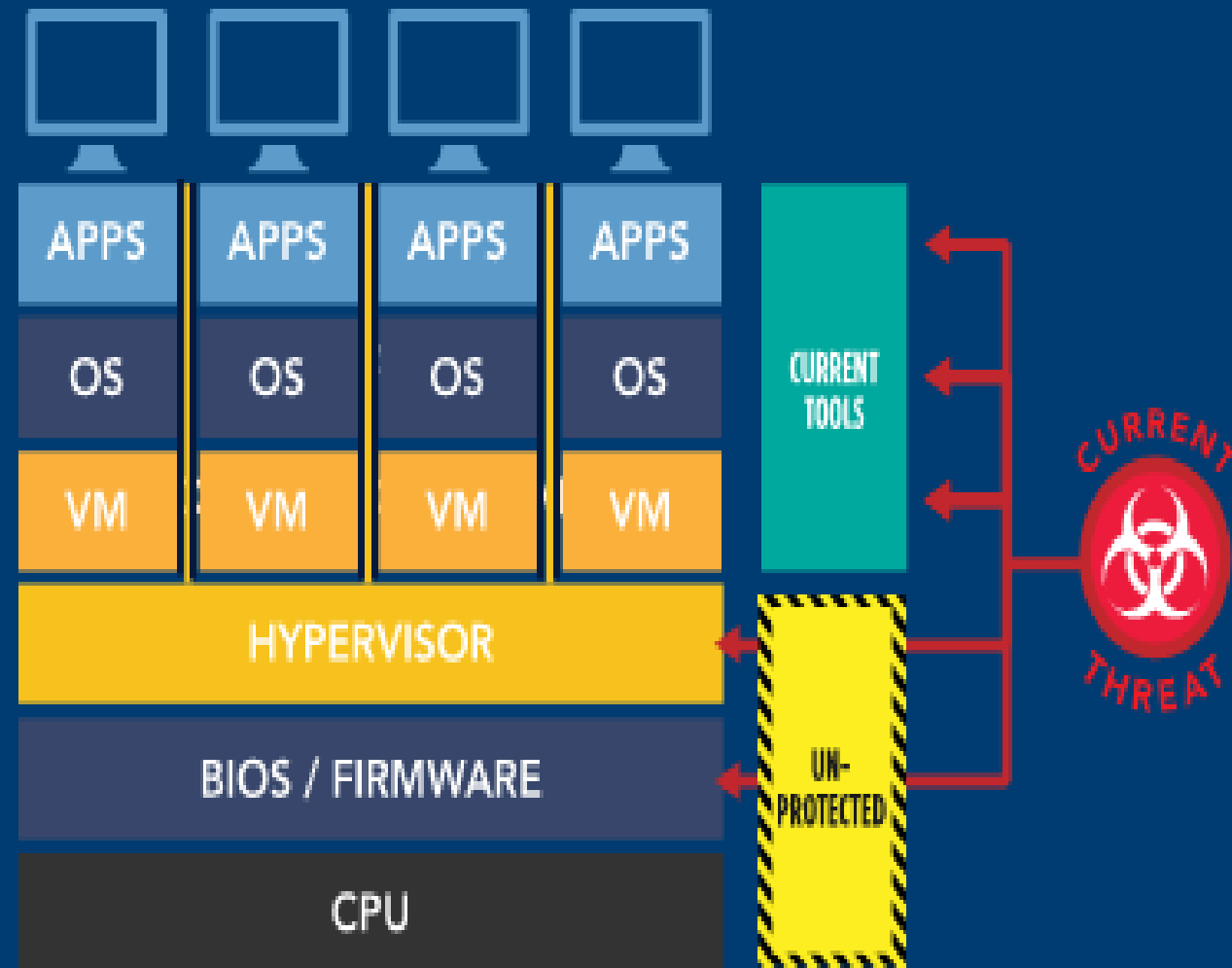
Effective security is built on a foundation of trust



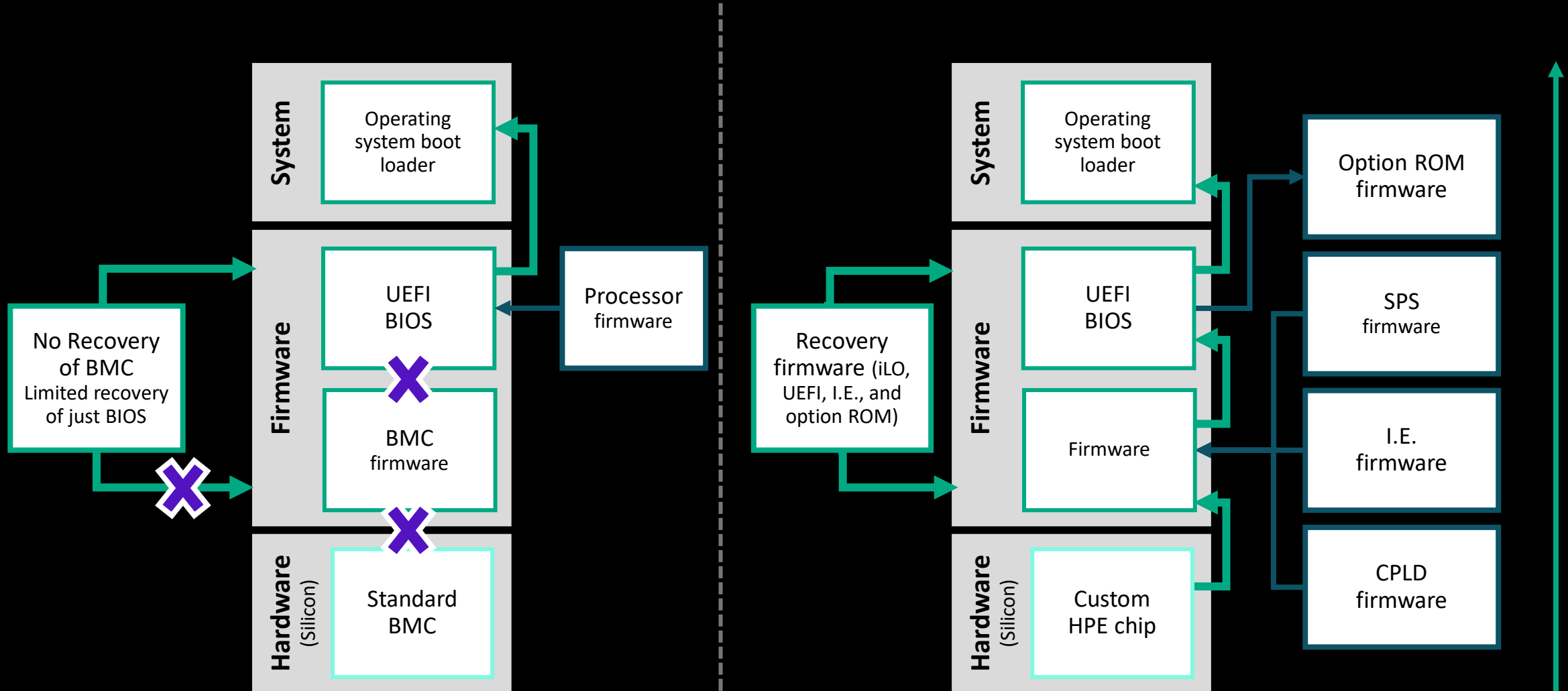
WHY HARDWARE BASED SECURITY

SECURITY IS ONLY AS STRONG AS THE LAYER BELOW IT





















































- Foundation for data center security solutions
- Begin with an immutable (unchangeable) source in silicon
- Establish a chain-of-trust up the boot stack all the way to the application



DIFFERENCE BETWEEN HPE SERVERS AND THE COMPETITION



HPE LEADS THE INDUSTRY

				
Server Silicon Root of Trust				
Machine Learning Attack Detection (Aruba)				
Multi-network role-based NAC				
Secure Supply Chain Beyond DFARS				
Storage FIPS 140-2 Level 2 Certification				
Server/Storage Ransomware Recovery				
Pointnext Security Assessment Services				
Server/Storage/Networking NIST mapping				
Server security modes (FIPS & CNSA)				
Cyber Catalyst Designation				
Server 3 rd Party Pen Testing & Validation				
Server/Storage Cyber Monitoring (InfoSight)				

17 CYBERSECURITY SOLUTIONS DESIGNATED AS CYBER CATALYST INSURERS BELIEVE THESE CAN HELP REDUCE CYBER RISK.

The inaugural class of Cyber CatalystSM designated solutions features **17 cybersecurity products and services** identified by leading cyber insurers as able to have a **meaningful impact on cyber risk**.

The products span a **range of cybersecurity functions**, including application, data, endpoint, hardware, messaging, network, infrastructure security; identity and access management; IoT devices; risk and compliance.

Cyber Catalyst SM 2019 Designated Cybersecurity Solutions			
	Aruba Policy Enforcement Firewall		BigID Data Privacy Protection and Automated Compliance
	CrowdStrike Adversary Emulation Penetration Testing		CrowdStrike Falcon Complete™
	Digital Guardian Data Protection Platform		FireEye Email Security
	FireEye Endpoint Security		ForeScout Device Visibility and Control Platform
	HackerOne Bounty		HPE Silicon Root of Trust
	KnowBe4 Security Awareness Training and Simulated Phishing Platform		Mimecast Security Email Gateway with Targeted Threat Protection
	Perspecta Labs SecureSmart™ critical Infrastructure monitoring solution		RSA SecurID® Access
	Trustwave® DbProtect™		Virsec® Security Platform
	Zingbox IoT Guardian™		

HPE SECURITY EDUCATIONAL OPPORTUNITIES

Server security

HPE SERVER SECURITY AND WELLNESS WORKSHOP

Course ID: **H9SZ3S B.00**

Cyber security is a critical issue for businesses today and HPE can help you navigate the risks. Let us protect your business, with the holistic security needed to address threats both today and tomorrow.

Course Briefing:

This HPE Server Security and Wellness Workshop provides an overview of server security, HPE iLO Amplifier Pack, HPE InfoSight for Servers, HPE iLO Advanced benefits, Intel Security, Pensando, and Cyber CatalystSM Designation capabilities. The workshop will provide demonstrations of server security features, server discovery through HPE iLO Amplifier Pack, configuration of servers in HPE InfoSight for Servers, how to utilize the HPE InfoSight for Servers wellness and operational dashboards, and run wellness reports. A step by step cookbook will be provided.

Primary Audience: Customers, Partners, and HPE Field Sales

Course Content:

- Intel Security
- HPE Gen10 platform security
- HPE iLO amplifier pack
- HPE iLO Advanced benefits
- HPE InfoSight for servers
- Cyber CatalystSM designation
- HPE & Pensando
- InfoSight for servers wellness reporting

"Today's cyber threat is bigger than any one government agency – frankly, it's bigger than government itself."

– Christopher Witay, FBI Director



Course Dates & Schedule

All Sessions are: 11:30 AM – 2:30 PM time zone: EST

Upcoming Dates

- October 22, 2020
- FY21 Q1 Dates Coming Soon!

Registration Link

<http://www.hpe.com/ww/training/vc-ncsched?id=7864>

Copy above link and click on United States and it will take you directly to registration

Key North America Contact

Allen Whipple ahipple@hpe.com

*For USA/Canada students only

Free Trial of iLO Advanced

HPE INTEGRATED LIGHTS-OUT (iLO)

iLO server management software that enables you to configure, monitor, and update your HPE servers seamlessly, from anywhere in the world.

Try iLO Advanced

www.hpe.com/info/iLO

How Do We Secure the Network

- 1. Have an Incident Response Plan and Test it**
- 2. Backup critical information and test your backups**
- 3. Get an External Security Evaluation**
- 4. Implement Two-factor Authentication**
- 5. Encrypt Data in all its States**
- 6. Train and Test your Employees**
- 7. Consider Implementing a Zero Trust Architecture**
- 8. Evaluate Processes that Rely on E-Mail**

WHERE DO WE GO FROM HERE

- What Digital Transformation are you looking to undertake? What security concerns do you have for that?
- How well does your current security model work if your data moved closer to the edge?
- Where are you in cloud implementation? Do you want to move more or less data to the cloud and why?
- What are your security concerns around cloud – whether public, private or hybrid?
- What did the COVID pandemic expose about your workflows? Do you need to look at transforming your workflow into a new digital model? Where does security fit in that transformation?
- When was the last time you had an external third party security evaluation? Did that include a test of your physical security as well as mobile security?

THANK YOU



CAMPUS MODERNIZATION: HOW TO MINIMIZE CYBERSECURITY RISKS

FEATURED SPEAKER



Marc Kravitz
Hyperconverged Category Manager,
Hewlett Packard Enterprise



Hewlett Packard
Enterprise

OPTIMIZED DATA PROTECTION WITH HPE STORAGE



Marc Kravitz
Storage Category Manager

October 20th, 2020



PROTECTING DATA IS INCREASINGLY CHALLENGING



Data growth is accelerating



Secondary data copy sprawl is increasing



SLA requirements are transforming



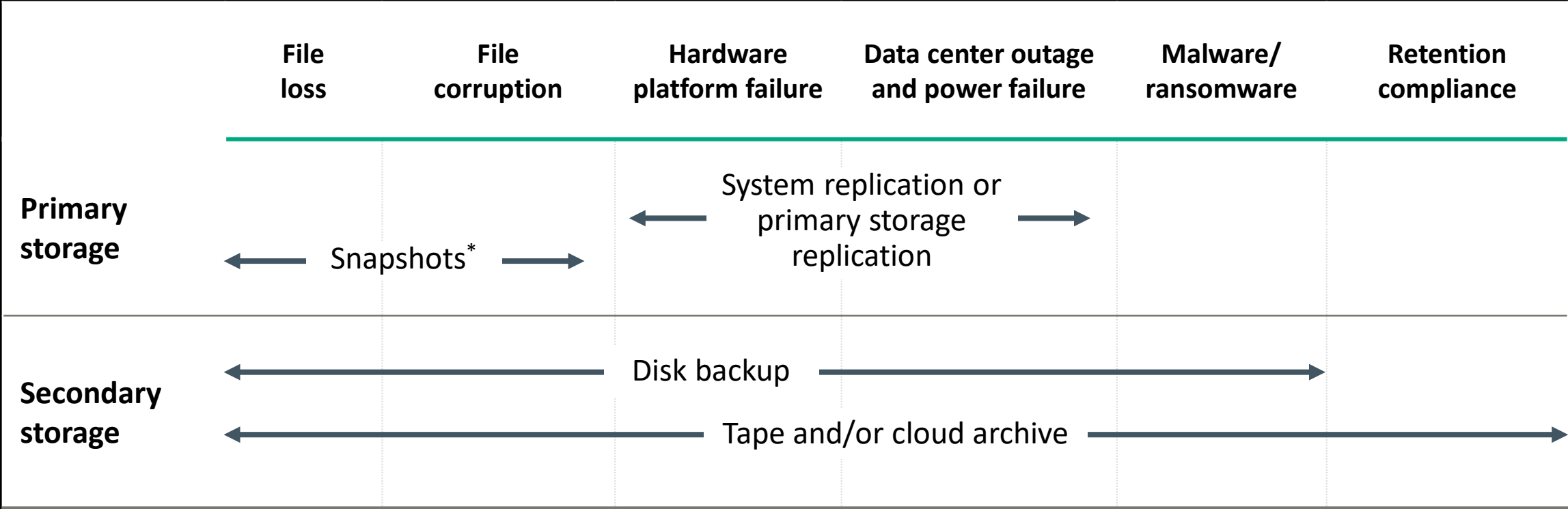
The threat and compliance landscape is evolving



Hybrid IT is creating complexity



MINIMIZE RISK WITH A COMPREHENSIVE END-TO-END APPROACH TO DATA PROTECTION



**Only for recent file loss or file corruption*



THE 3-2-1 RULE FOR BEST PRACTICE HYBRID IT DATA PROTECTION

Protecting data against ANY failure—wherever it lives

3-2-1 best practice: **3 copies of data, 2 copies on 2 different types of media, 1 copy off site**

1st copy on
primary storage



2nd copy on
disk backup appliance

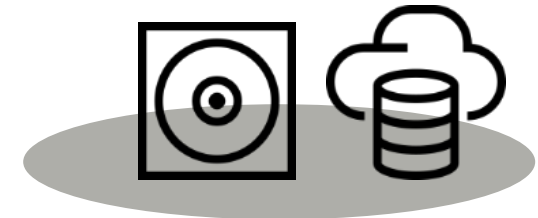


On premises

3rd copy on another disk
backup appliance



(Optional) copy to tape
(archive and compliance) or
cloud



Off site

SECURE BACKUPS AND FAST RESTORES ARE CRITICAL IN COUNTERING RANSOMWARE ATTACKS

I need my backups to be protected against ransomware

I want the option of copying my backups to the cloud

I need to recover quickly from my backups to meet my stringent RPO and RTO

I want to continue using my backup software with the solution that counters ransomware attacks

I need a data protection solution that is easy to administer and manage

The data protection solution for ransomware needs to integrate into my native database backup tools



HPE STORAGE DELIVERS END-TO-END DATA PROTECTION

Recovery Manager Central




VERITAS™

veeam



COMMAVULT™

MICRO FOCUS™

Primary Storage



HPE PrimeraHPE 3PARHPE Nimble Storage





HPE Nimble Storage dHCIHPE SimpliVity



Snapshots for the lowest RPO and RTO

Replication for rapid recovery from hardware platform outage or site outage”


Secondary Storage



HPE StoreOnceHPE Nimble Storage Adaptive Flash Array





HPE ApolloHPE + Cohesity




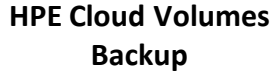
HPE StoreEver

Space efficient, cost-effective backups for onsite retention and restores

Cloud



HPE Cloud VolumesHPE Cloud Bank Storage



HPE Cloud Volumes BackupHPE Cloud Bank Storage

Offsite or hosted backup and archival for compliance, audit, and disaster recovery

←

Edge to Cloud as-a-service Experience

→

HPE SIMPLIVITY

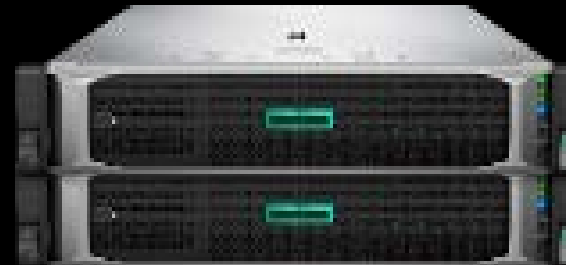
The only HCI solution with *built-in* data protection

- Accomplish 3-2-1 data protection: 3 copies, 2 independent media sets and 1 off-site copy
- Policy-based, VM-centric management
 - **Frequency:**
 - Reduce RPO to as little as 10 minutes
 - **Duration:**
 - Flexibility for how long backup is kept
 - Minutes, Hours, Days, Weeks, Months, Years
 - **Location:**
 - Backups can be stored in local or multisite cluster
 - Can be in different countries or within the same physical rack

HPE SimpliVity guarantees 10:1 efficiency + Recovery of a 1TB VM in under 60 seconds

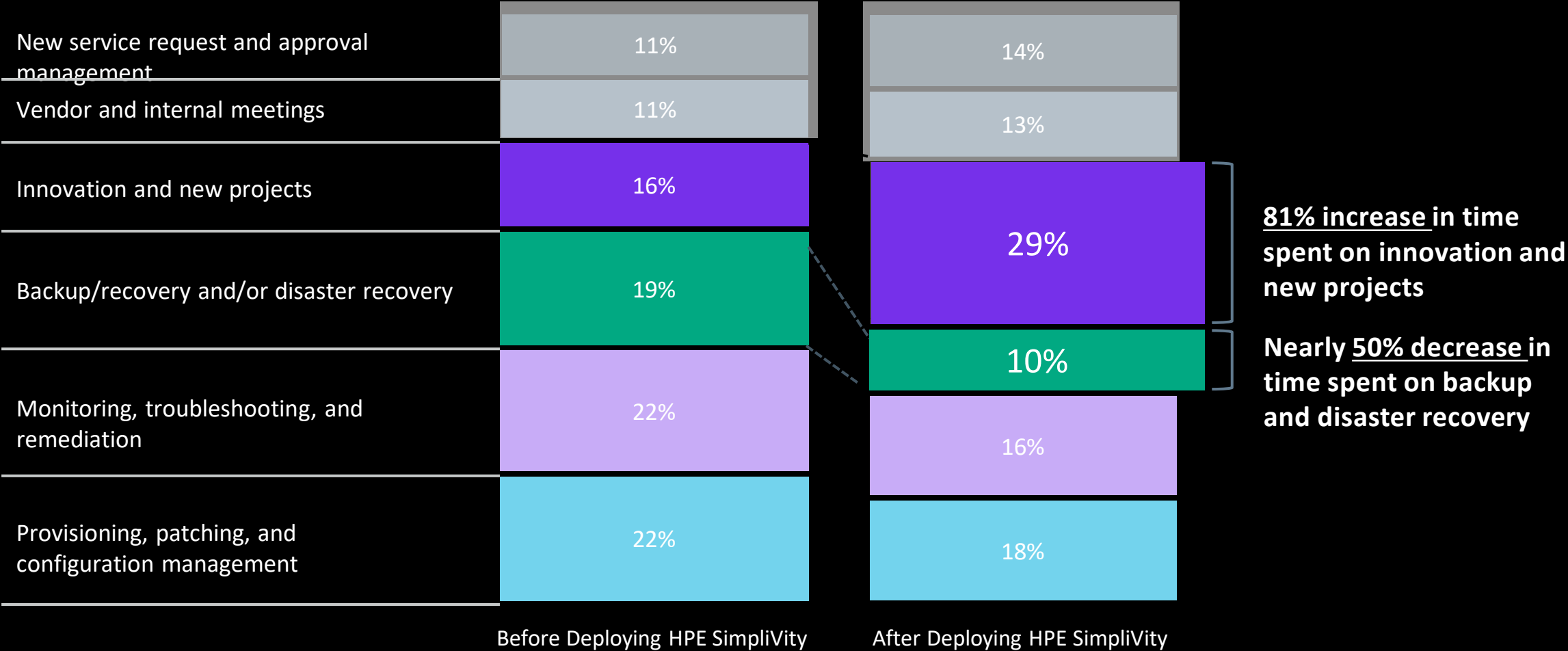
Full Backups and independent of each others

Customers typically see 47:1 Efficiency across the data life cycle



OPERATIONAL TIME SAVINGS DRIVES INNOVATION

Percent of Total Time IT Staff Spent on Tasks



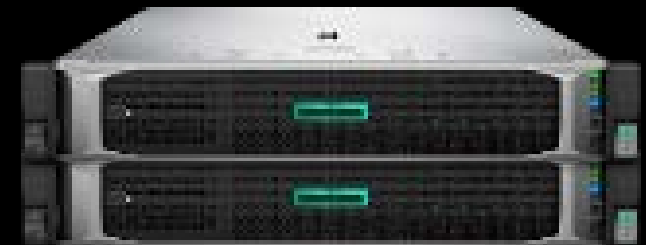
Source: IDC White Paper, sponsored by SimpliVity, "SimpliVity Drives Operational Efficiency and Customers are Benefitting," April 2016.

NATIVE RANSOMWARE PROTECTION WITH HPE SIMPLIVITY

- **All Data is Protected**
 - Save all your data as READ ONLY
- **Fully Independent Backups**
 - SimpliVity backups are independent and cannot be overwritten or changed
- **Lowest Backup Window**
 - Take a full backup every 10 minutes
- **Rapid Restore**
 - Recover from an attack in 60 seconds or less

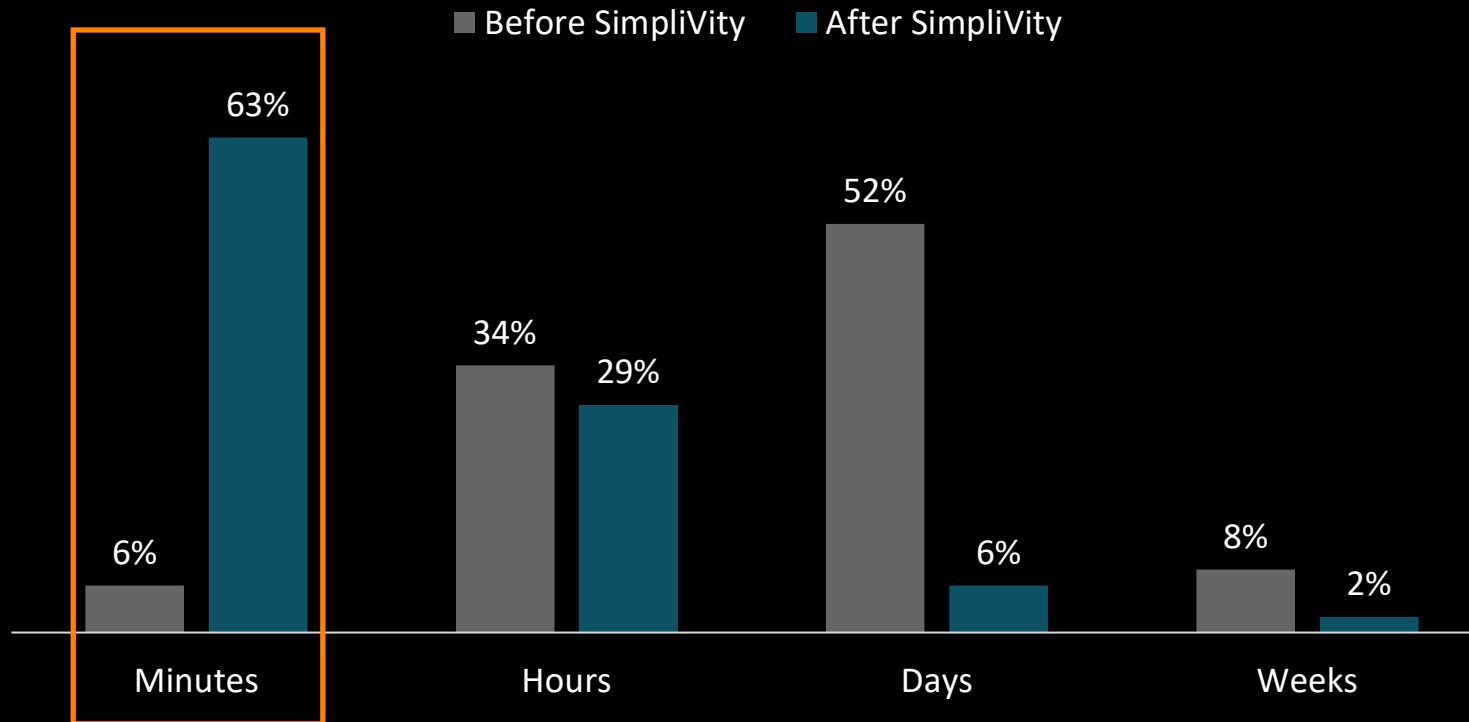


WITH HPE SIMPLIVITY



SHRINKING RECOVERY TIMES FROM DAYS OR HOURS TO MINUTES

Recovery Times Before and After HPE SimpliVity systems



After implementing
HPE SimpliVity

63%

of customers reported
RTOs in minutes

HPE Cloud Volumes Backup

Enterprise Cloud backup for the modern enterprise

Protect Everything



HPE Cloud Volumes Backup
100% Cloud-Native



Restore Anywhere



Effortless

Efficient

Flexible



HPE CLOUD VOLUMES BACKUP - SECURE BY DESIGN



MITIGATE RISK

- All backups are invisible to Ransomware attacks
- Fully encrypted off-site backups—in-flight and at rest
- Secure isolations for multi-tenancy with 256-bit AES
- Powered with infrastructure measured with 99.9999% availability





Hewlett Packard Enterprise

THANK YOU

Engage with HPE Storage



hpe.com/SimpliVity



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[search HPE Technology](https://www.youtube.com/results?search_query=search+HPE+Technology)



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We are in this together and HPE wants to help!

HPE has the solutions to solve TODAY'S Higher Education challenges -

Cybersecurity

Data Protection, Secure Backups and Fast Restores

Simplify IT to Free Up Resources and Focus on Innovation

How to Contact HPE

Email: hpesolutions@hpe.com

Phone:: **877-258-6204**

Your HPE Sales Representative



Hewlett Packard
Enterprise

THANK YOU





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PANEL DISCUSSION



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LIVE Q&A



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**THANK YOU
TO OUR
CORPORATE
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**THANK
YOU FOR
JOINING US**

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For questions regarding this presentation, contact:

Jessica Walton
Center for Digital Education
jwalton@erepublic.com

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