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HOW CLOUD, MOBILITY AND SHIFTING APP ARCHITECTURES WILL TRANSFORM SECURITY: GAINING THE HOME-COURT ADVANTAGE

Tom Corn

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Increase in Security Losses

Forecasted Growth in Overall IT Spend



4.5%

Growth in Security Spend



10.2% (since 2017)

26% (since 2014)

\$3.7 Trillion in 2018

Gartner Press Release, Gartner Says Global IT Spending to Reach \$3.7 Trillion in 2018, January 16, 2018 \$91.4 Billion in 2018

Source: IDC, Worldwide Semiannual Securit Spending Guide, #US42570018, March 201

\$600 Billion in 2017

Source: Center for Strategic and Int'l Studies, Economic Impact of Cybercrime, February, 2018



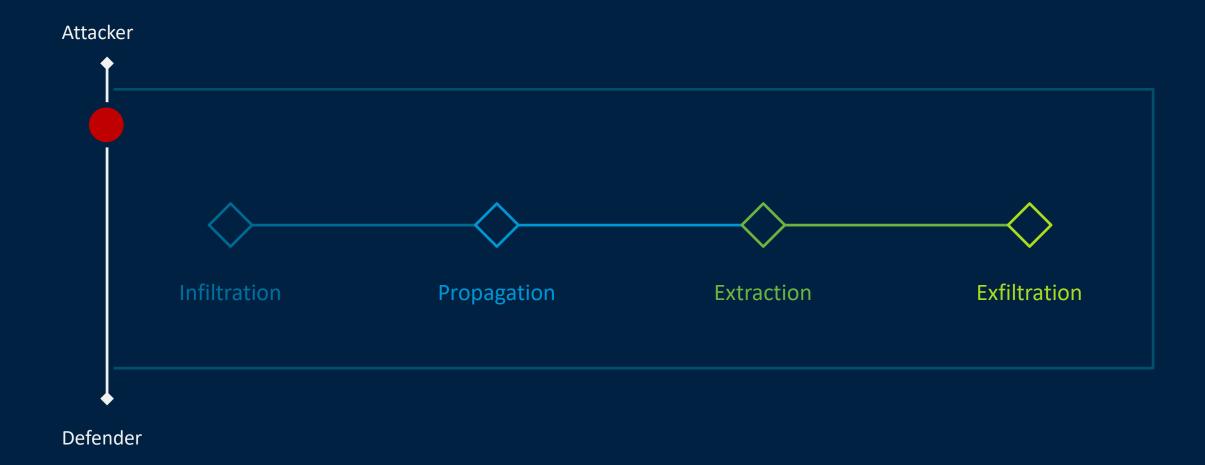
Security Controls





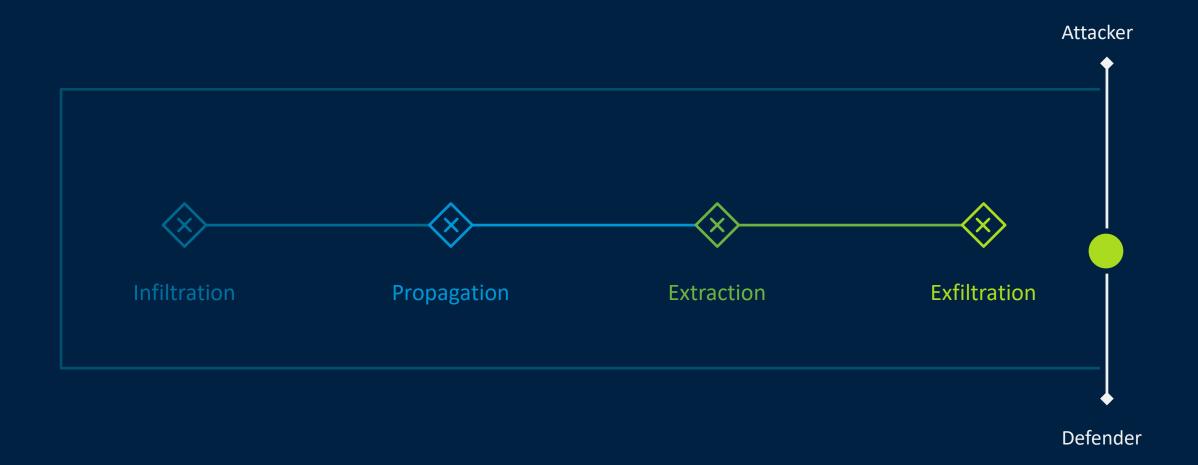


Dynamics of an Attack

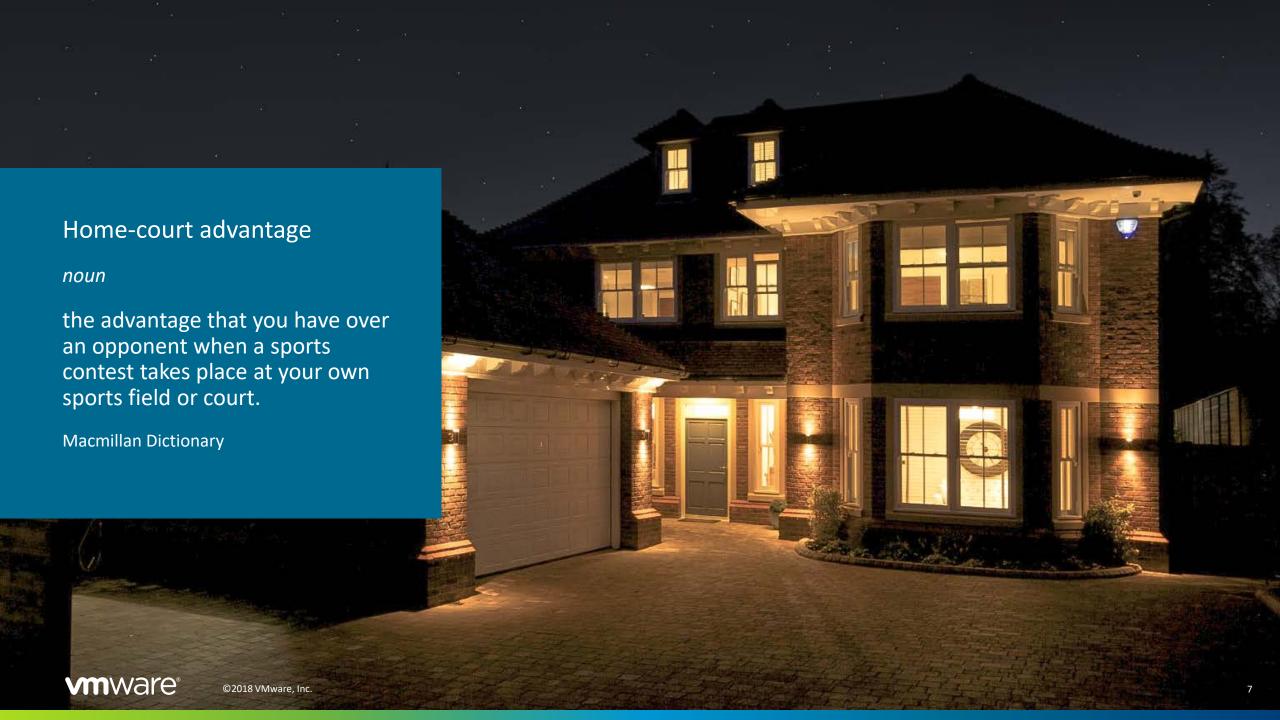


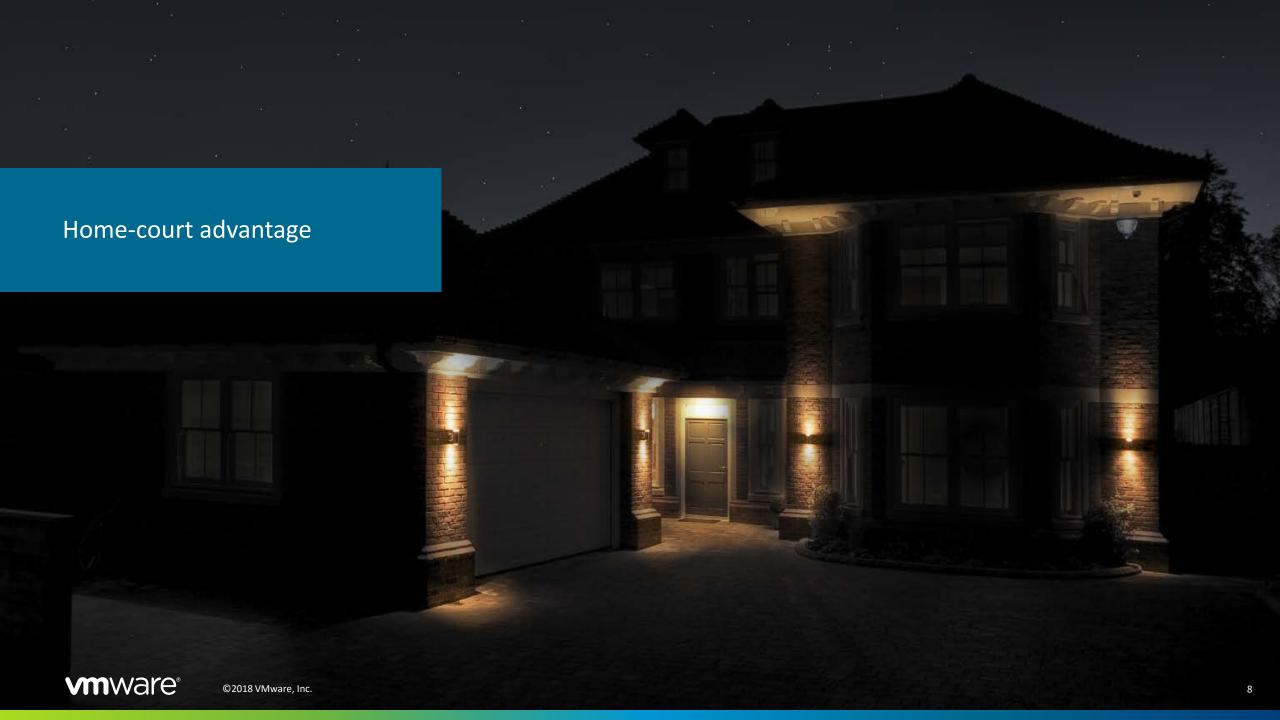


Dynamics of an Attack









Home-Court Advantage

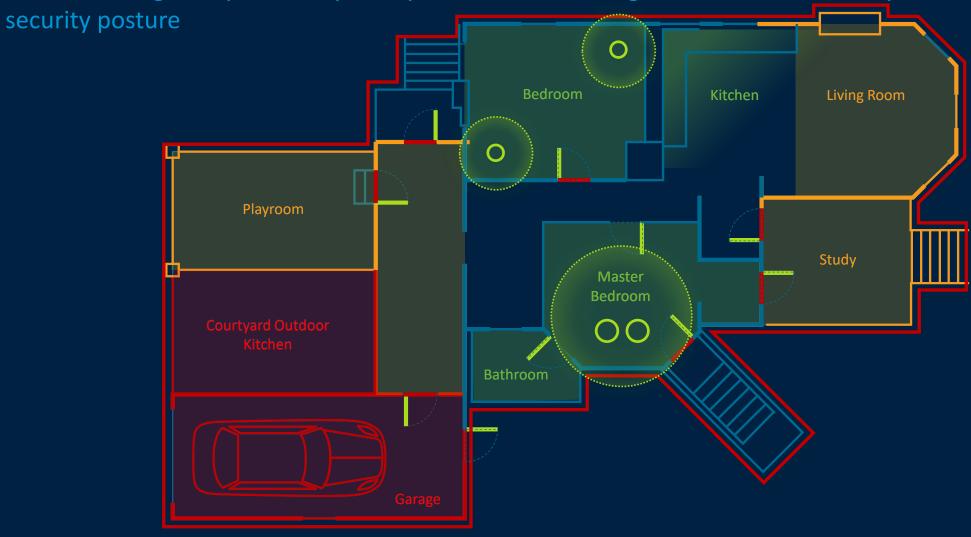




Home-Court Advantage Comes From...

Understanding how your family uses your home, and using that context to shrink your

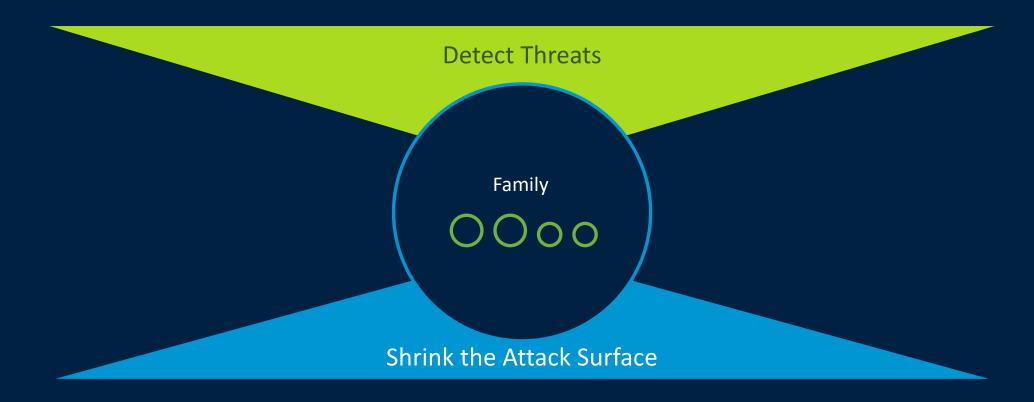






If You Want Home-Court Advantage

Take advantage of what you know better than an attacker





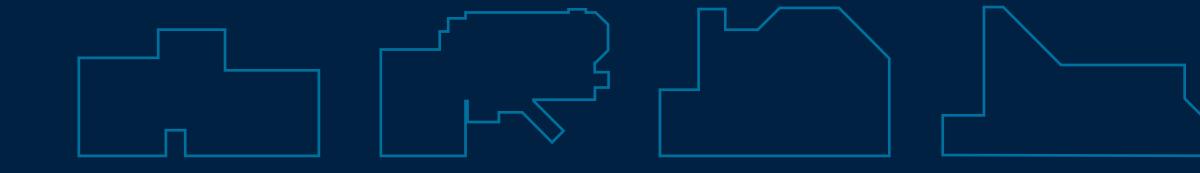
Why don't we get homecourt advantage in cyber security?



We Keep All the Lights On, and All the Rooms Open











We See Through an Infrastructure Lens Monitor Monitor Network



If We Compartmentalize at All, it's Aligned to an Infrastructure Lens







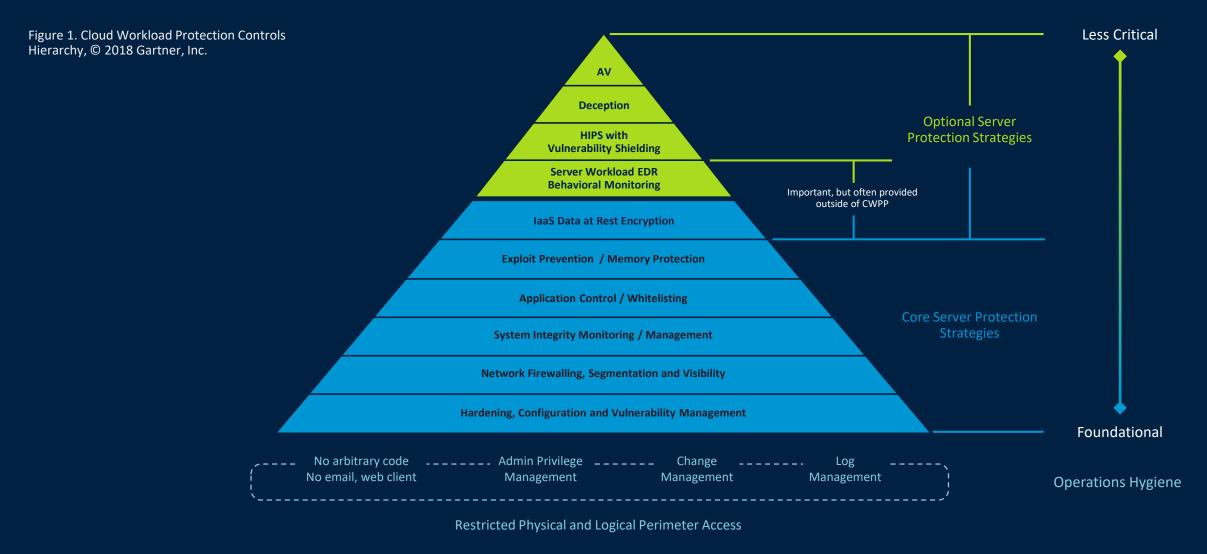
Threat



Posture

We Should Focus More on Core Protection Strategies

Gartner Market Guide for Cloud Workload Protection Framework





And We Should Focus on Applications and Data

And how they use the infrastructure – versus focusing just on the infrastructure



















Residual Risk









Least Privilege



Encryption



Multi-Factor Authentication



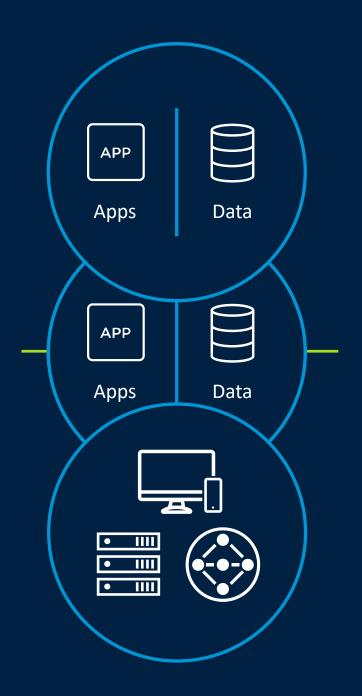
Patching

Cyber Hygiene

Attack Surface



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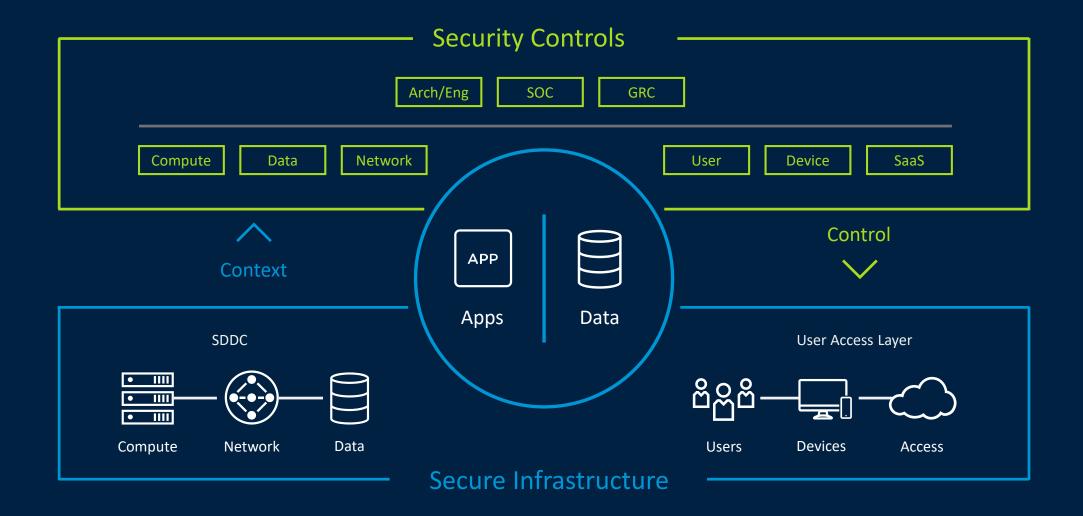




Can the unique properties of cloud and mobile be the solution versus the problem?

















Cyber Threats

Residual Risk





Micro-Segmentation



Least Privilege



Encryption



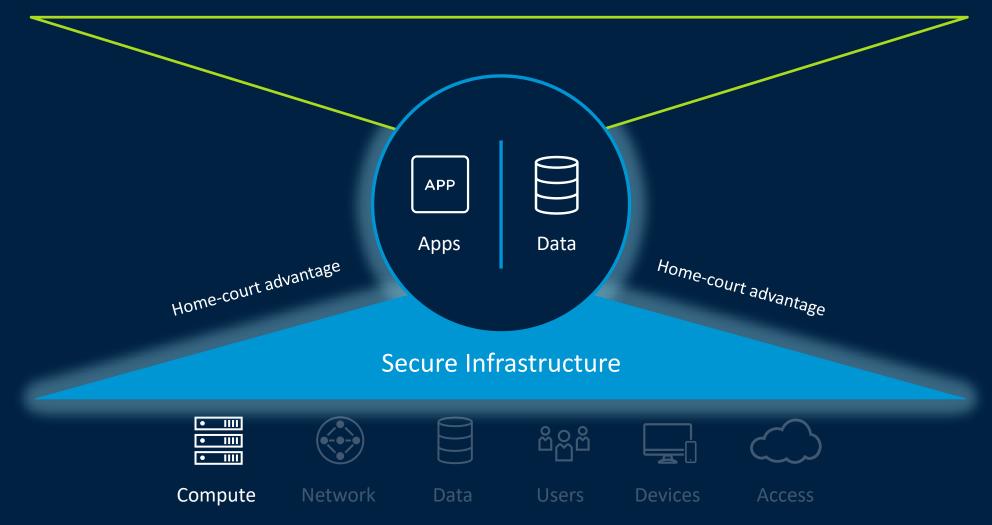
Multi-Factor Authentication



Patching

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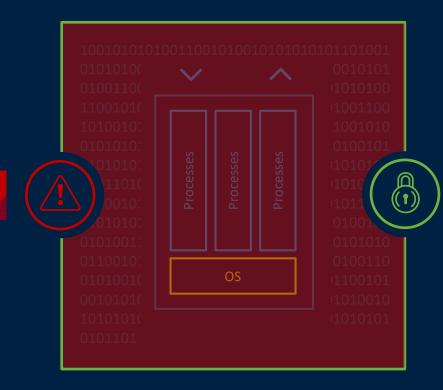


Changing the Application Security Model

From chasing bad to ensuring good

Chasing Bad

75,000,000



Ensuring Good

75



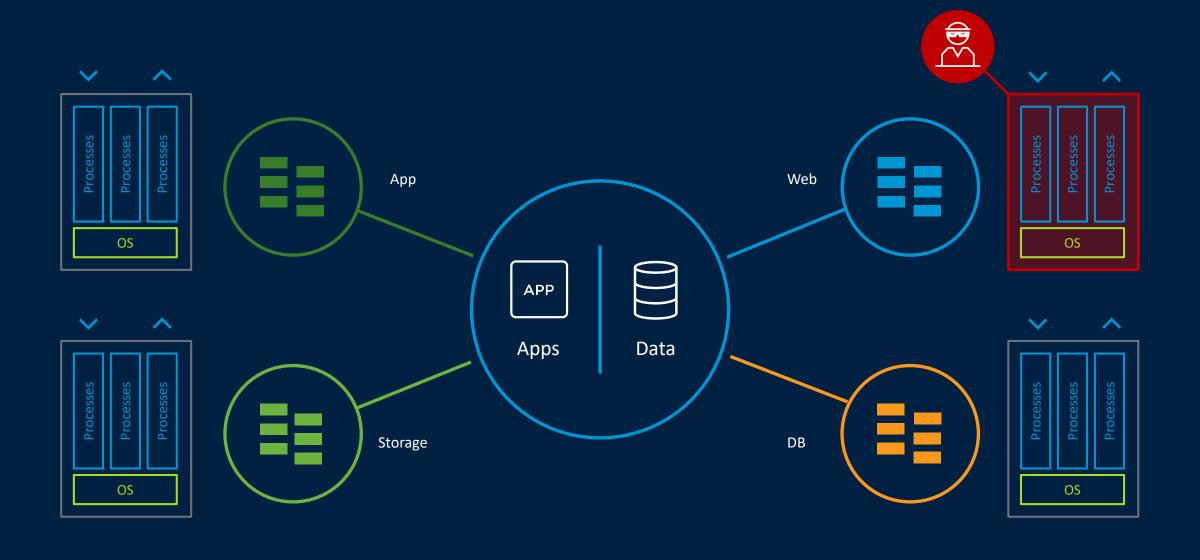


















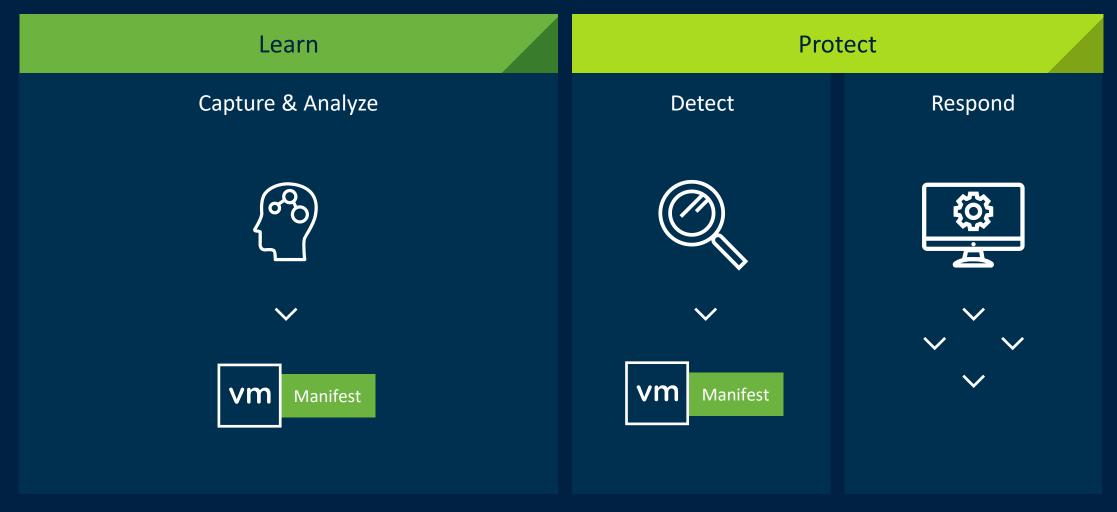








Protecting Applications in Virtualized and Cloud Environments













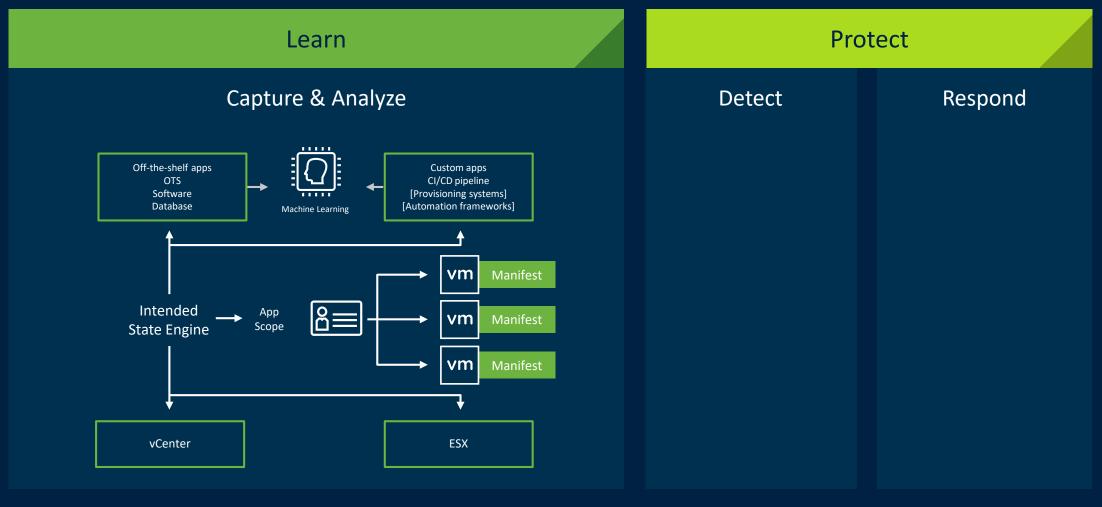


Uniquely Leverage the Hypervisor



Capture & Analyze

Capture the purpose and intended state of applications and VMs













Detect

Runtime application attestation and secure manifest store

Learn Protect Capture & Analyze Respond Detect AppDefense AppDefense AppDefense Monitor Monitor Monitor vm vm Protected zone









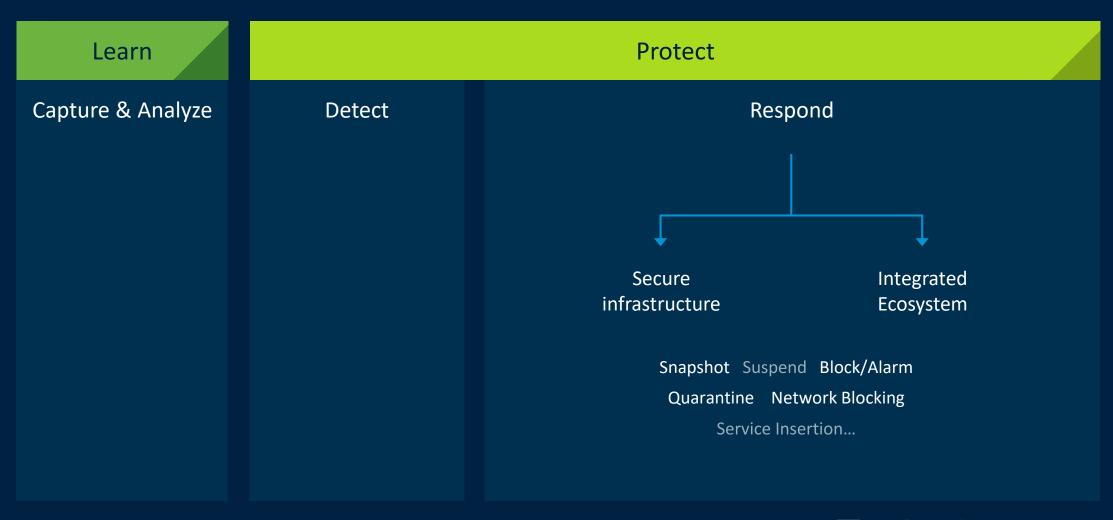






Respond

Orchestrated incident response routines for the SOC





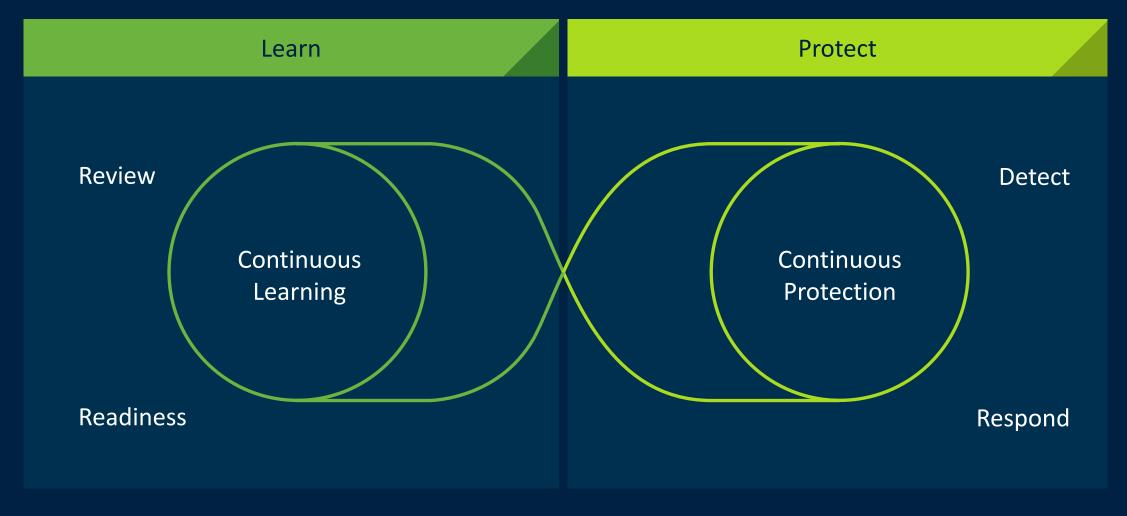






Review and Readiness

Collaboration between security teams and application teams

















vmware[®]

Review and Readiness

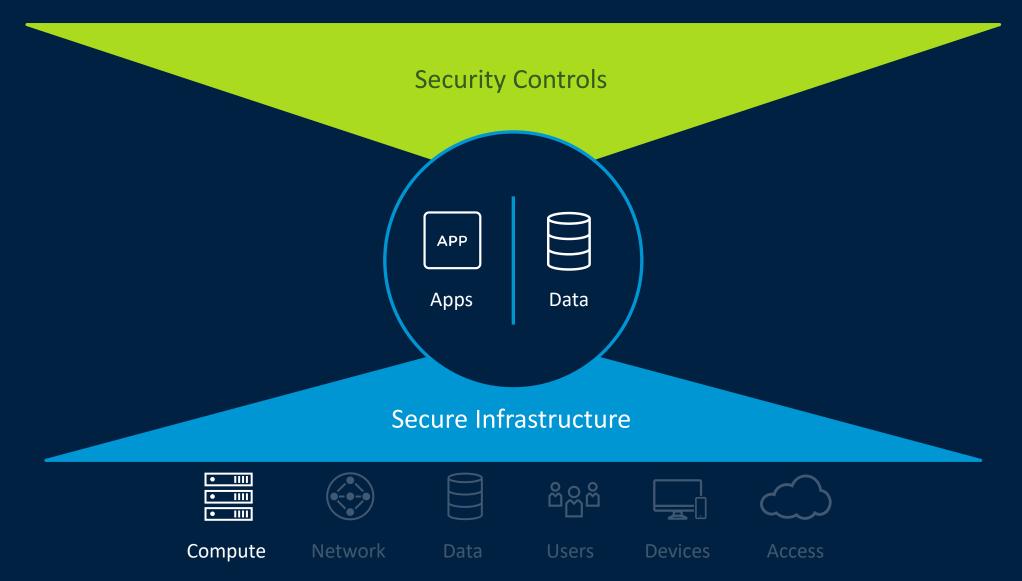
Collaboration Between Security Teams and Application Teams

Figure 2: DevSecOps: Secure Development as a Continuous Improvement Process © 2017 Gartner, Inc. Sec Dev Ops **Prevent** Create Continuous Continuous Configuration **Improvement** Adapt Continuous Monitoring Monitoring Continuous Integration and Analytics and Analytics Monitoring Release Continuous Continuous Deployment Learning Respond Preprod Predict **Continuous Delivery**

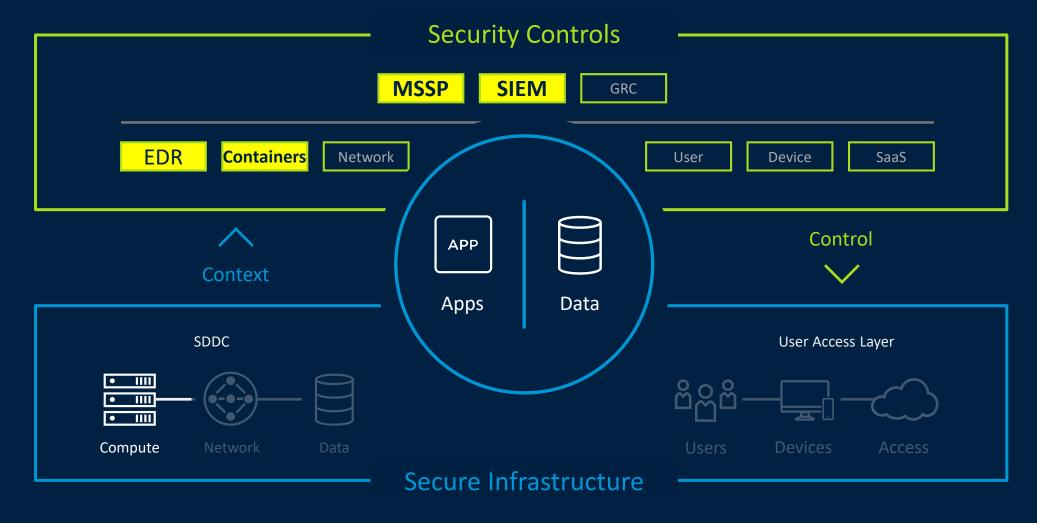


Demo

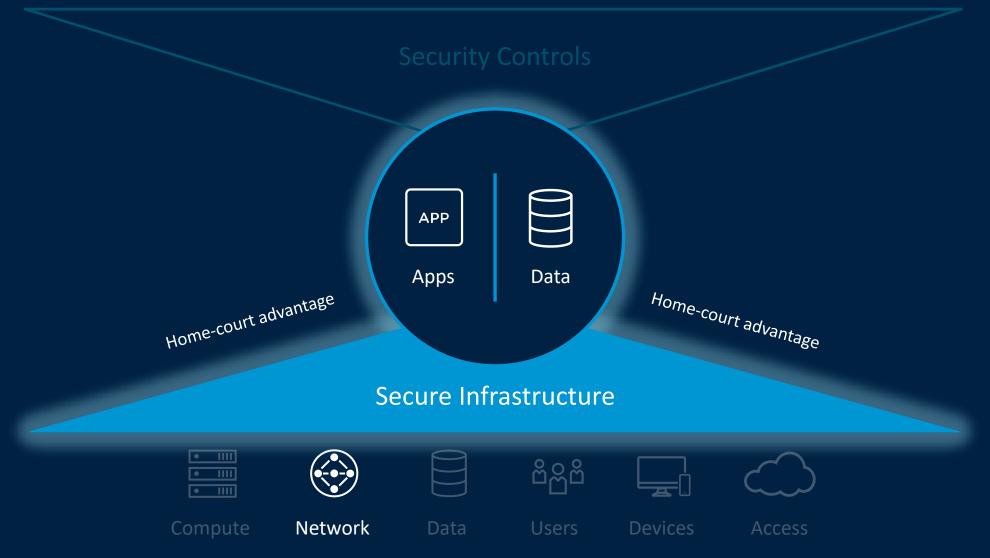


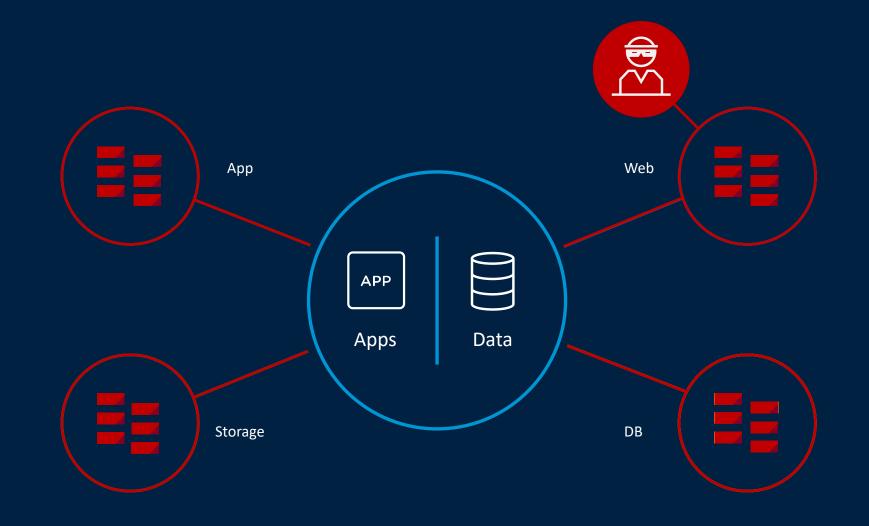


Enabling Richer Security Controls













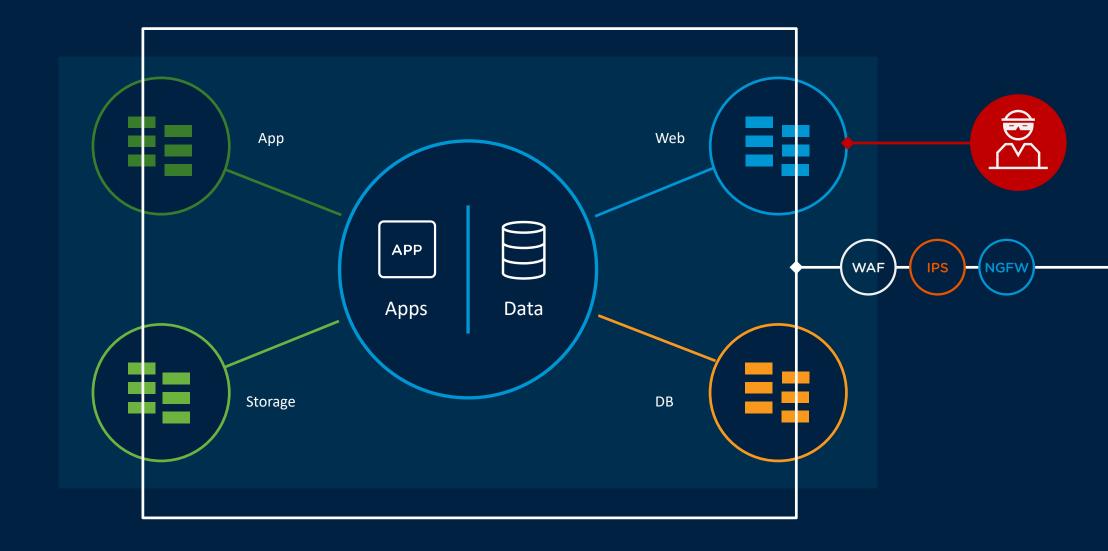


















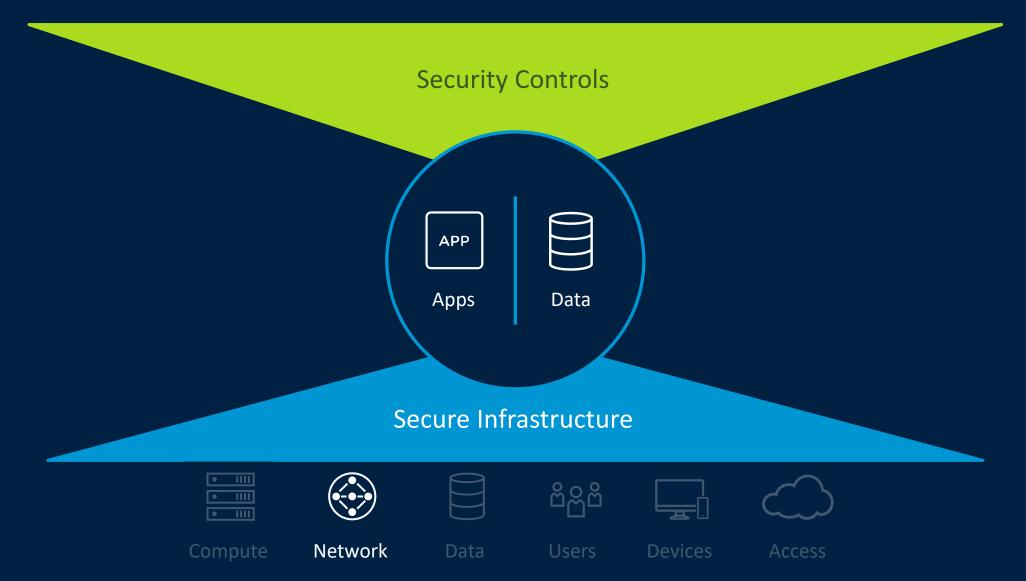




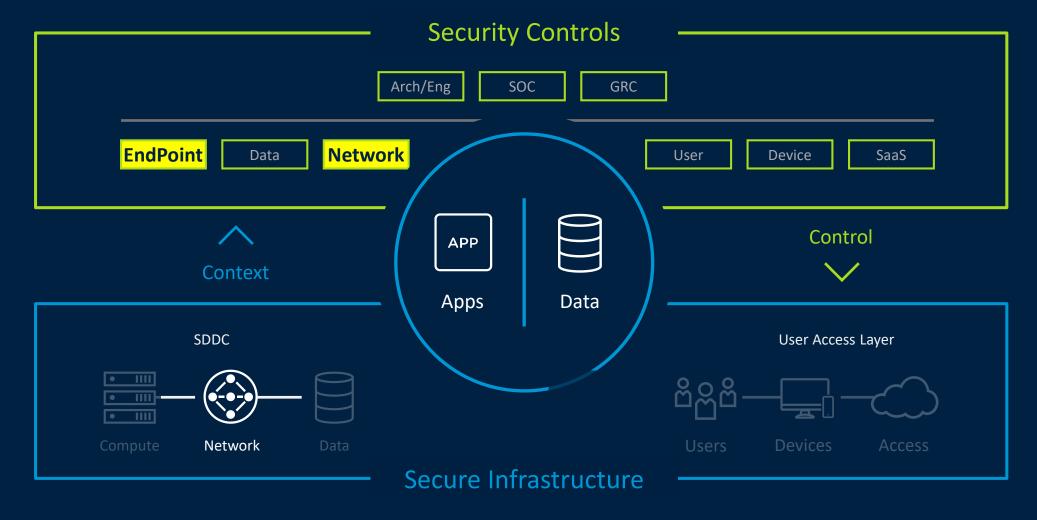




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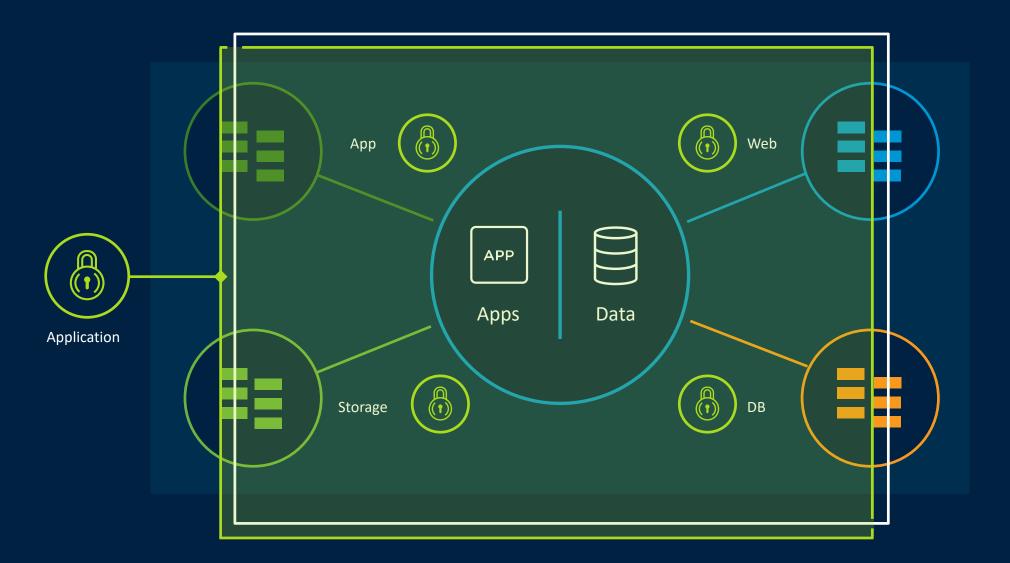


Enabling Richer Security Controls











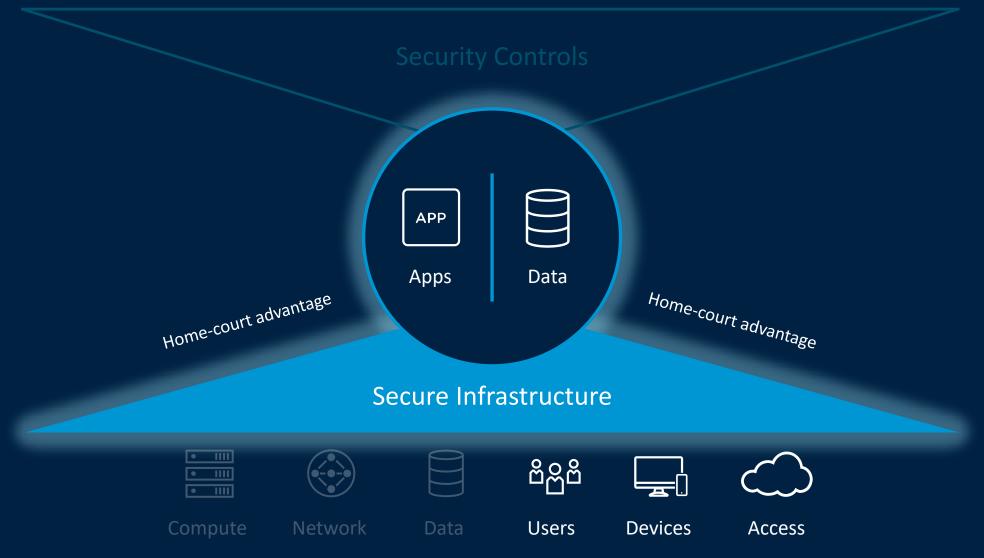


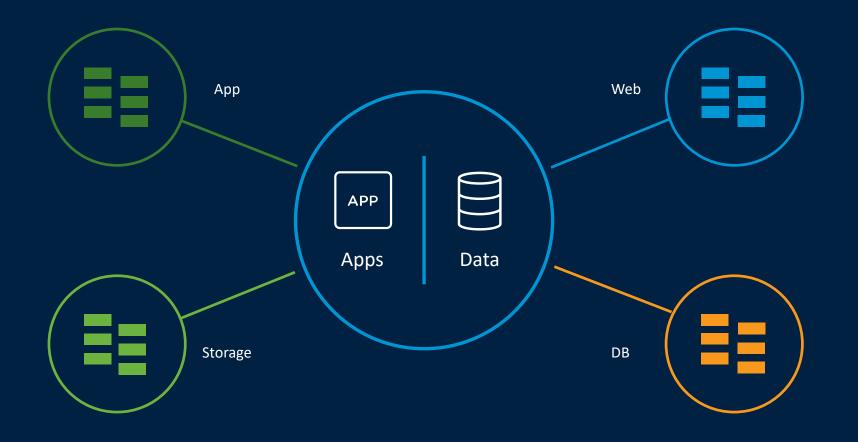


















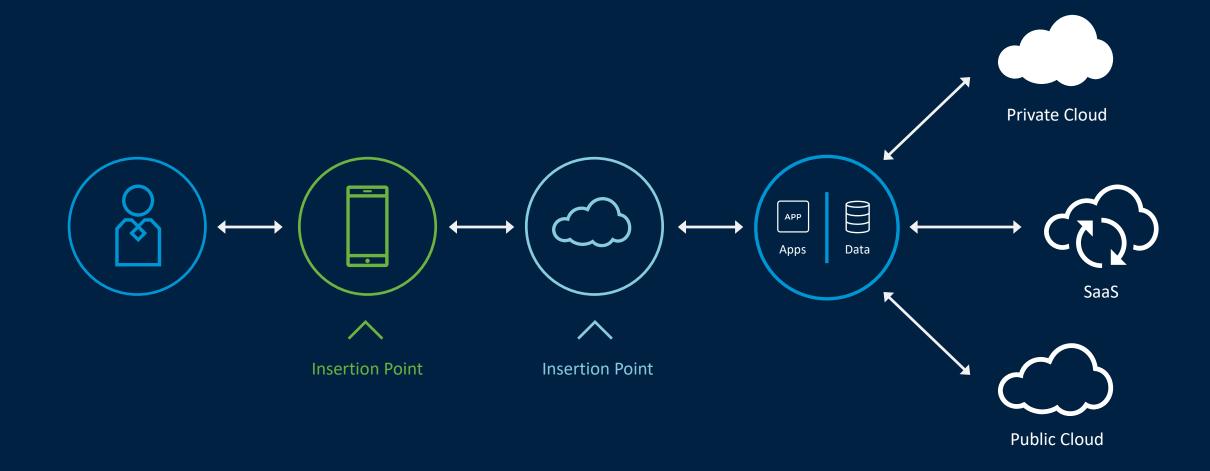






Validate and Verify

Right user + right device + right app









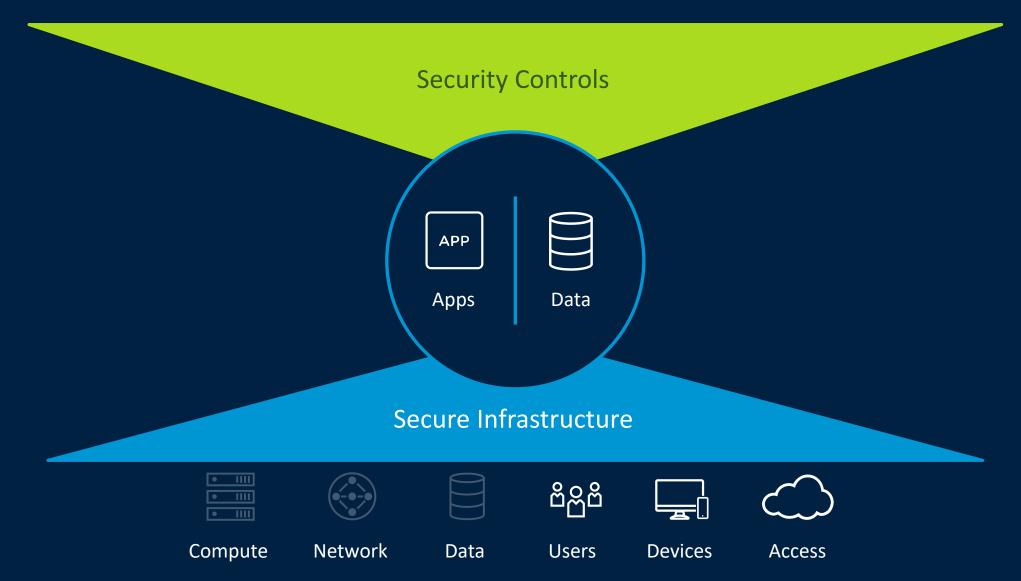


Users

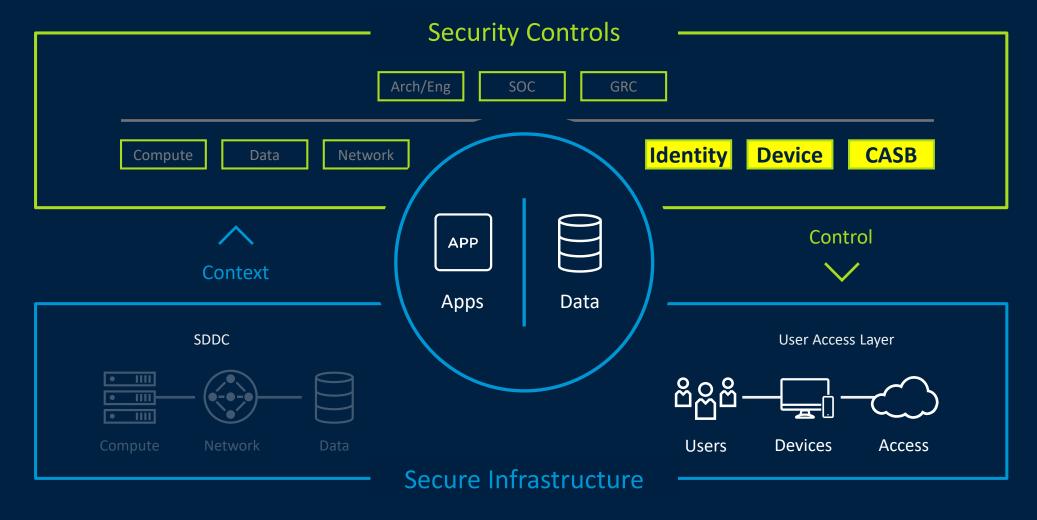




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Enabling Richer Security Controls





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Cyber Threats

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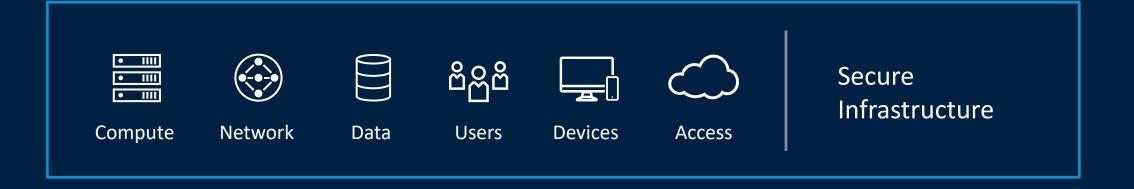
Attack Surface

Transforming CYBERSecurity





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Go beyond:

Securing

Cloud & Mobility

To using:

Cloud & Mobility

to

Secure



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