

How to survive in a Virtualized and Cloud Computing World

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Creating Trust Online™

ConocoPhillips





SONY

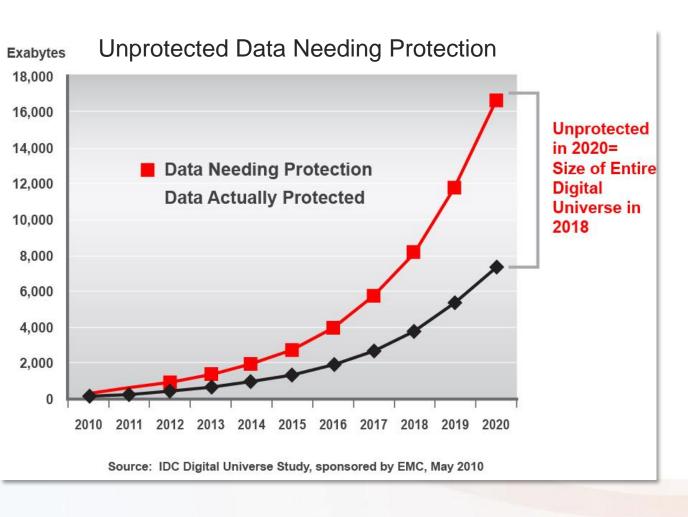






The Security Division of EMC

Data everywhere – but protection?



Amount of data needing protection will grow by a factor of 90 by 2020

-IDC



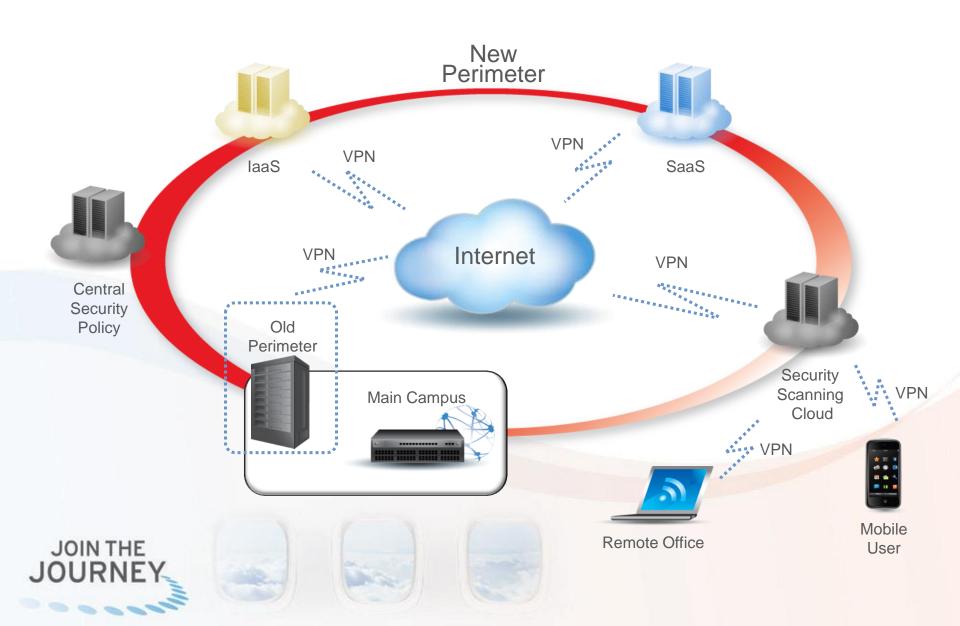




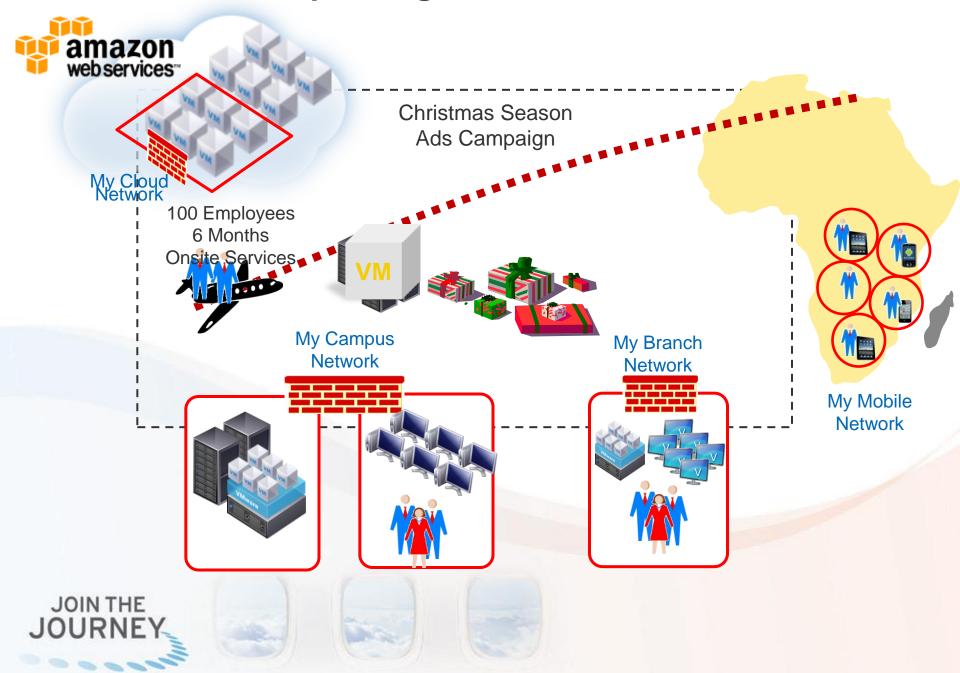


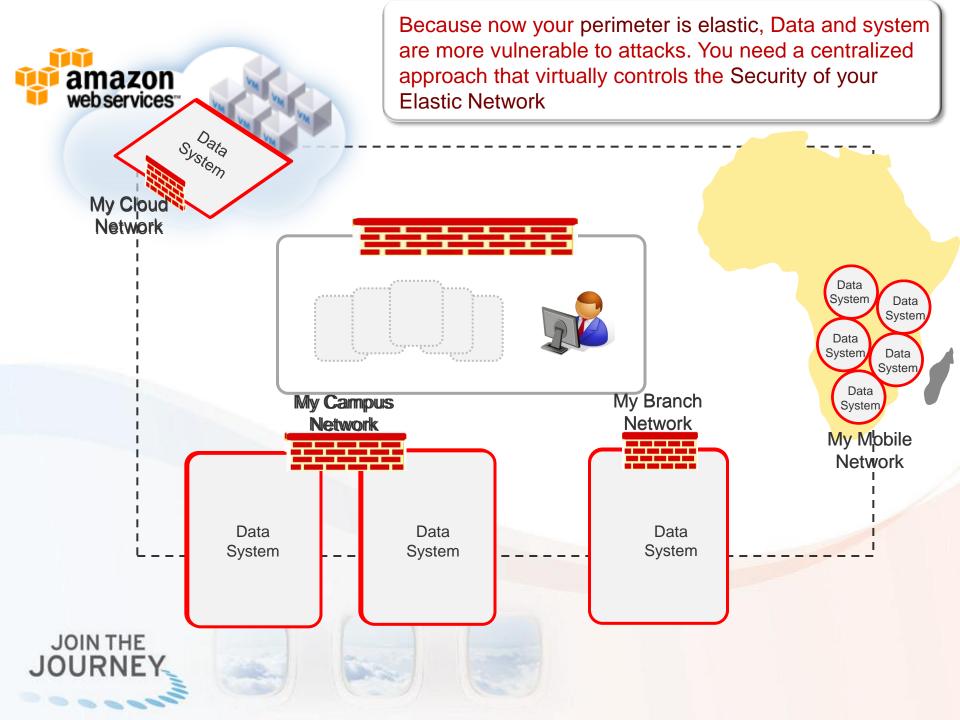
Because the Network Perimeter is Expanding

You Need an Elastic Network Security Architecture

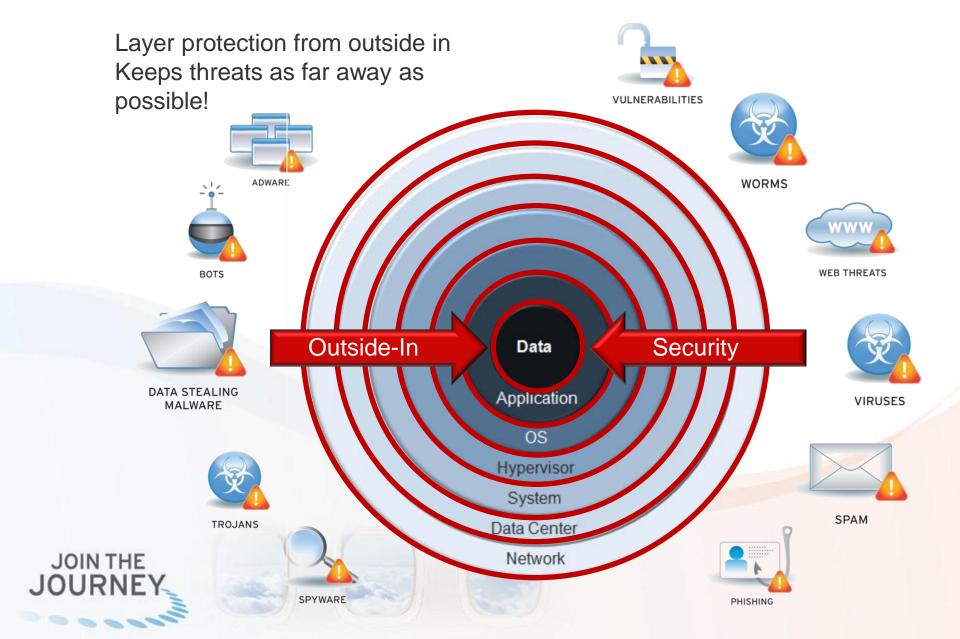


Your Network is Expanding and is Elastic

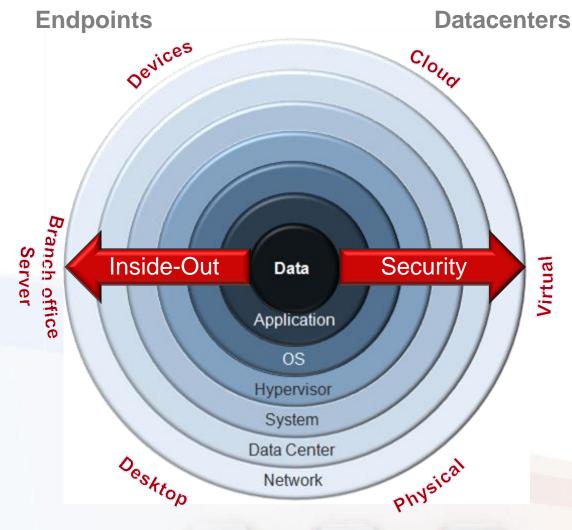




Integrated Security Across Platforms Outside-in Model of Perimeter Defense



Integrated Security Across Platforms Inside-out Security



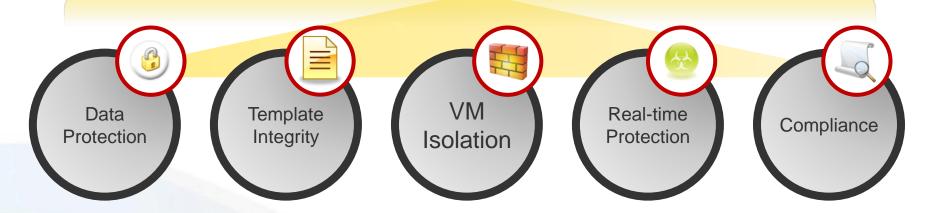
JOIN THE

- Self-Secured Workload
- Local Threat Intelligence
 - When-Timeline Aware
 - Who-Identity Aware
 - Where-Location Aware
 - What-Content Aware
- User-defined Access Policies
- Encryption

All network-connected data must be able to defend itself from attacks

Security that Travels with the VM

Cloud Security – Modular Protection



Self-Defending VM Security in the Cloud

- Agent on VM can travel between cloud solutions
- One management portal for all modules
- SaaS security deployment option





Total Cloud Protection

System, application and data security in the cloud





51AE738C43BC20DF31CE30CFF0AE518C73BC43DF20CE31CF3
619E42BA708D255978611C190508D7C8C6B0A0D7DDCFFDE2:
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490A024CSCUECGOCCOSCOBOCCA59
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B0EF9BD90A2133457A2D3348756485C58BBCF9FBAFF7D7956
6D7F0936617F042428DB9DC9E2A4A1EDAA82C004332651500



Modular protection for servers and applications

- Self-Defending VM Security in the Cloud
- Agent on VM allows travel between cloud solutions

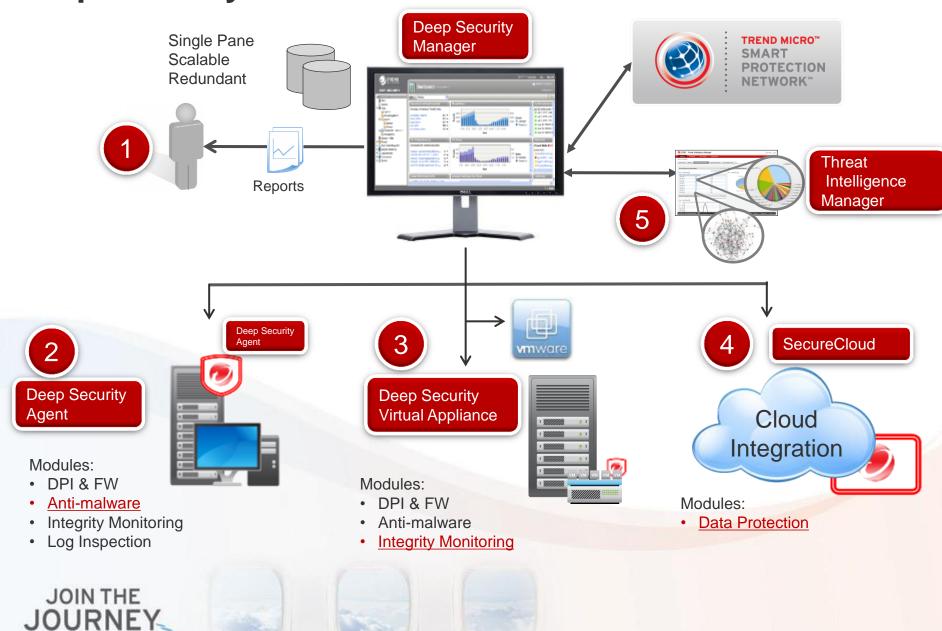
JOIN THE

One management portal for all modules

Encryption with Policy-based Key Management

- Data is unreadable to unauthorized users
- Policy-based key management controls and automates key delivery
- Server validation authenticates servers requesting keys

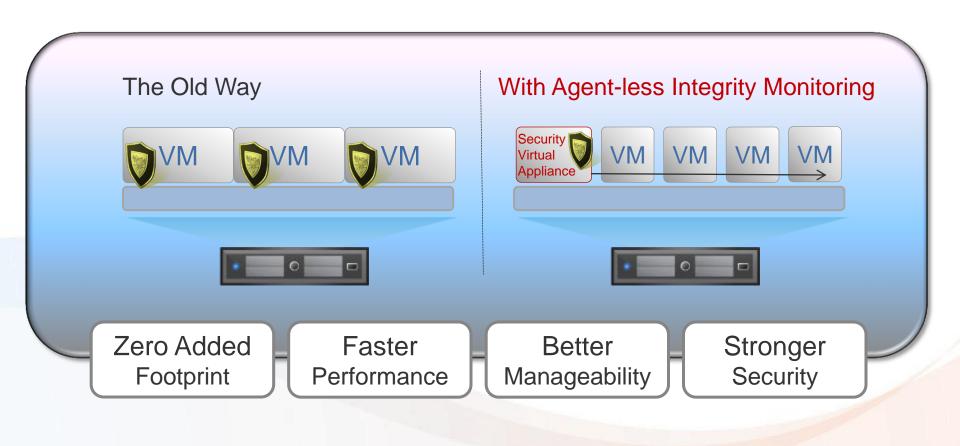
Deep Security Architecture



APT (Targeted Attacks) in comparison

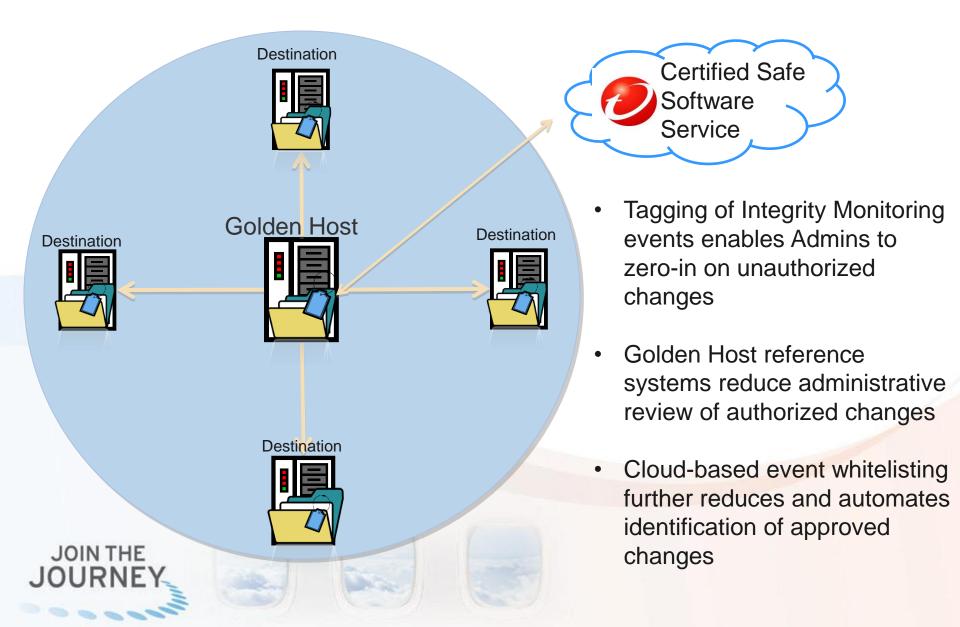
	APT	The Old Stuff
Infiltration	 Combination of multiple attack methologies Long Preparation time. Social engineering on a few selected victims 	One or 2 attack methodsNot selectiveTries to infect many users
Infection/Attack	Silent and hiddenLow and slow approachTargeted	Noisy and aggressiveInfects multiple usersHigher visibility
Data Leakage/Exfiltration	 Happens slow and over several weeks or more Only accesses certain data Coordinated human involvement – they know what they are looking for 	 Generic information stealer – credit card info or login credentials Mindless and automated piece of code, not aware of the environment

Deep Security 8 Integrity Monitoring Agentless Integrity Monitoring





Deep Security 8 Integrity Monitoring Ease of Use Enhancements



Microsoft: Remote Desktop Protocol Vulnerability Should be Patched Immediately

By Brian Prince on March 13, 2012



Microsoft is urging organizations to apply the sole critical update in this month's Patch Tuesday release as soon as possible.

The critical bulletin – one of six security **bulletins** issued as part of today's release – addresses two vulnerabilities in the Remote Desktop Protocol (RDP).

"A little about MS12-020...this bulletin addresses one Critical-class issue and one Moderate-class issue in Remote Desktop Protocol (RDP)," **Angela Gunn**, security response communications manager for Microsoft's Trustworthy Computing Group, explained in a blog post. "Both issues were cooperatively disclosed to Microsoft and we know of no active exploitation in the wild. The Critical-class issue applies to a fairly specific subset of systems – those running RDP – and is less problematic for those systems with Network Level Authentication (NLA) enabled."



"That said, we strongly recommend that customers examine and prepare to apply this bulletin as soon as possible," she added. "The Critical-class issue could allow a would-be attacker to achieve remote code execution on a machine running RDP (a non-default configuration); if the machine does not have NLA enabled, the attacker would not require authentication for RCE access."









Vulnerability Shielding solves the Patching Nightmare

Takes days to months until patches are available and can be tested & deployed

Enterprise Legacy **Applications** Web Applications Unsupported OSs Unpatchable & Applications **Systems**

Developers not available to fix vulnerabilities

Patches are no longer being developed

Can't be patched because of cost, regulations, SLA reasons

- Enterprises spend a third of their time on patching
- But ³/₄ of enterprises say their patching is not effective

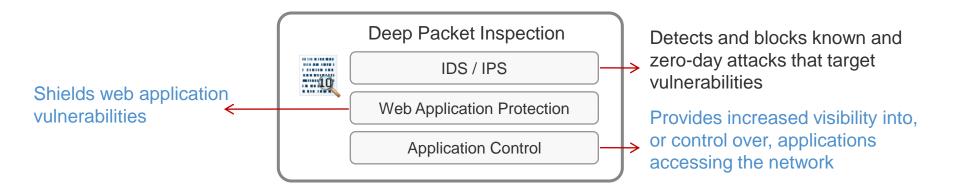








Source: InformationWeek, Analytics Report: 2010 Strategy Security Survey



Highlights

1. Coverage for CVE-2012-0754.

Its been observed that this flash vulnerability is being exploited in the wild. We have added generic and exploit specific coverage for this. The following rules address this vulnerability.

1004647 - Restrict Microsoft Office File With Embedded SWF

1004114 - Identified Malicious Adobe SWF File

1004948 - Adobe Flash Player MP4 File Memory Corruption Vulnerabilities

2. MS Patch Tuesday Coverage

Total Bulletins: 5
Total Vulnerabilities: 6

DS coverage: 4 bulletins, 4 vulnerabilities. Details:

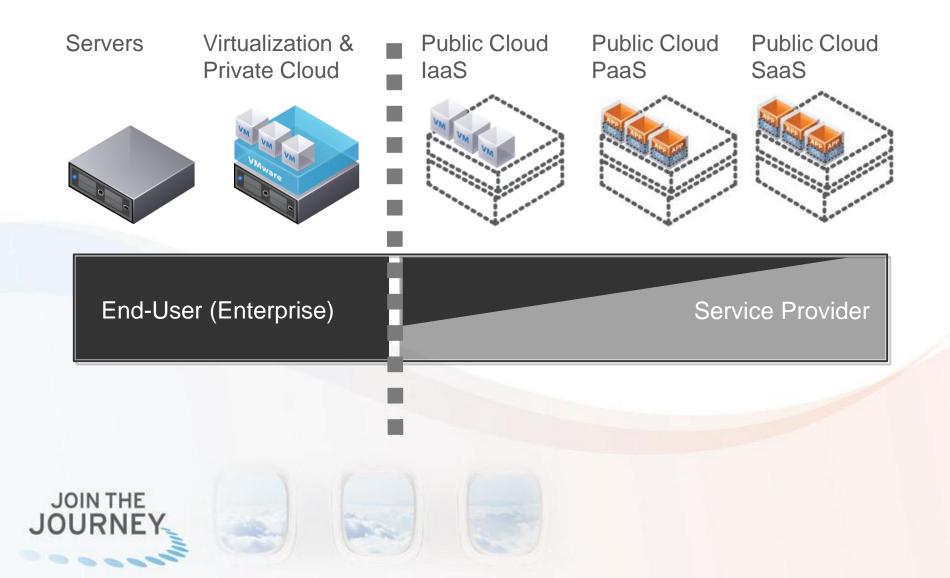
MS Rule					
Bulletin ID	CVE ID	Identifier	Rule Name	Severity	Application Type
MS12-017	CVE-2012-0006	1004951	DNS Denial Of Service Vulnerability (CVE-2012- 0006)	Important	DNS Client
MS12-020	CVE-2012-0002	1004949	Remote Desktop Protocol Vulnerability (CVE- 2012-0002)	Moderate	Remote Desktop Protocol Server
MS12-021	CVE-2012-0008	1004950	Microsoft Visual Studio - New Add-In Created	Important	Integrity Monitoring Rule
MS12-022	CVE-2012-0016	1004946	Microsoft Expression Design Insecure Library Loading Vulnerability Over Network Share (CVE-2012-0016)	Important	Windows Services RPC Client
MS12-022	CVE-2012-0016	1004947	Microsoft Expression Design Insecure Library Loading Vulnerability Over WebDAV (CVE-2012- 0016)	Important	Web Client Common

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So now we could trust our own systems but what about systems outside our control?

THREE EARLEST TEAM

Who Has Control?



Amazon Web Services™ Customer Agreement

4.2 Other Security and Backup. You are responsible for properly configuring and using the Service Offerings and taking your own steps to maintain appropriate security, protection and backup of Your Content, which may include the use of encryption technology to protect Your Content from unauthorized access and routine archiving Your Content. http://aws.amazon.com/agreement/#4 (30 March 2011)

The cloud customer has responsibility for security and needs to plan for protection.



What is there to worry about?

Use of encryption is rare:

• Who can see your information?

Virtual volumes and servers are mobile:

Your data is mobile — has it moved?

Rogue servers might access data:

Who is attaching to your volumes?

Rich audit and alerting modules lacking:

What happened when you weren't looking?

Encryption keys remain with vendor:

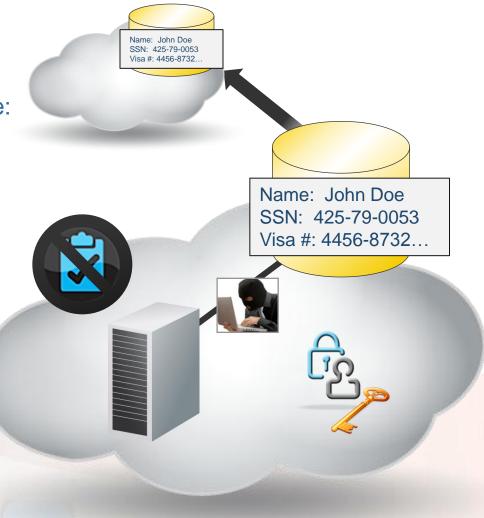
Are you locked into a single security solution?
 Who has access to your keys?

Virtual volumes contain residual data:

Are your storage devices recycled securely?







What we offer: SecureCloud

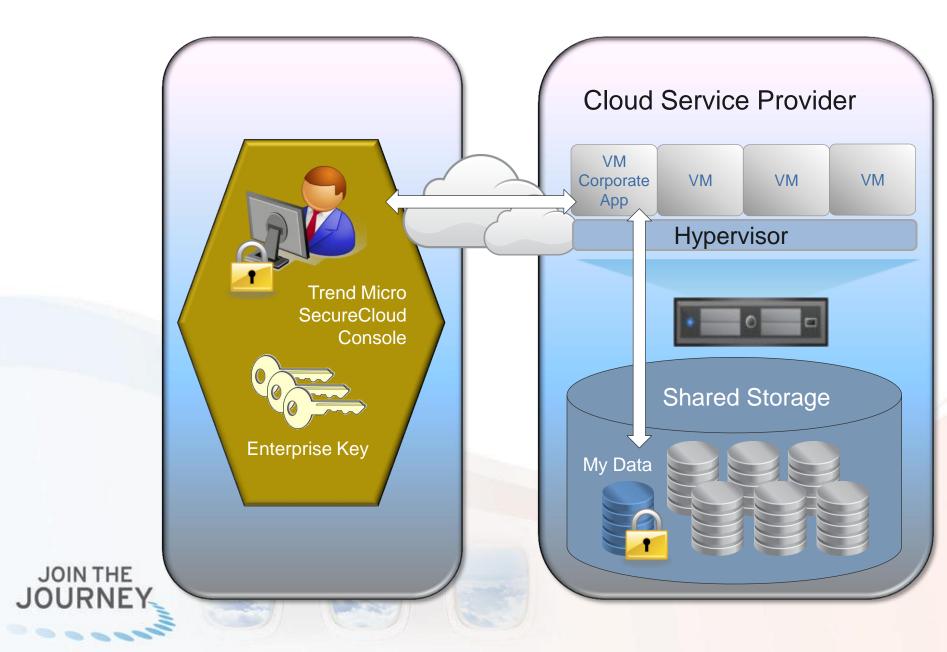
- Encrypts data in public or private cloud environments
 - Military grade, FIPS 140-2 compliant encryption to 256-bits
- Manages encryption keys
 - Typically a very tedious, detailed and expensive process
 - Application upkeep offloaded to trusted partner
- Authenticates servers requesting access to data
 - Policy-based system gives wide range of factors on which key deployment decisions are made
 - Delivers keys securely over encrypted SSL channels
- Audits, alerts, and reports on key delivery activities
 - Multiple reports and alerting mechanisms available







Trend Micro SecureCloud How It Works



Policy-based Key Management in the Cloud

Identity "Is it mine?"

- Embedded keys
- Location
- Start-up time
- etc

Integrity "Is it okay?"

- Firewall
- AV
- Self integrity check
- etc

Auto or Manual rules based key approval

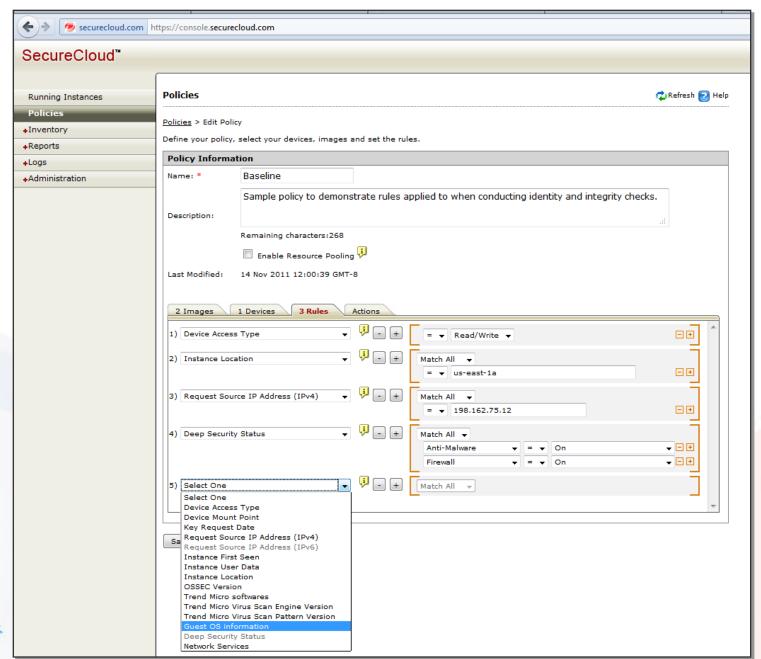








What Does a Policy Look Like?









trendmicro.com/JoinTheJourney

