



“We’re wondering, do we have all risks identified?
 ...we’re flying blind.”

(Global 1,000 CISO)

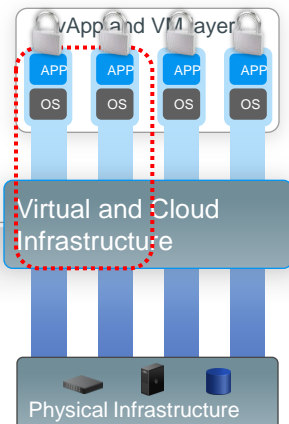
Opportunity for More Effective Security In Virtualized Environments

Today most security is enforced by the OS and application stack. This is:

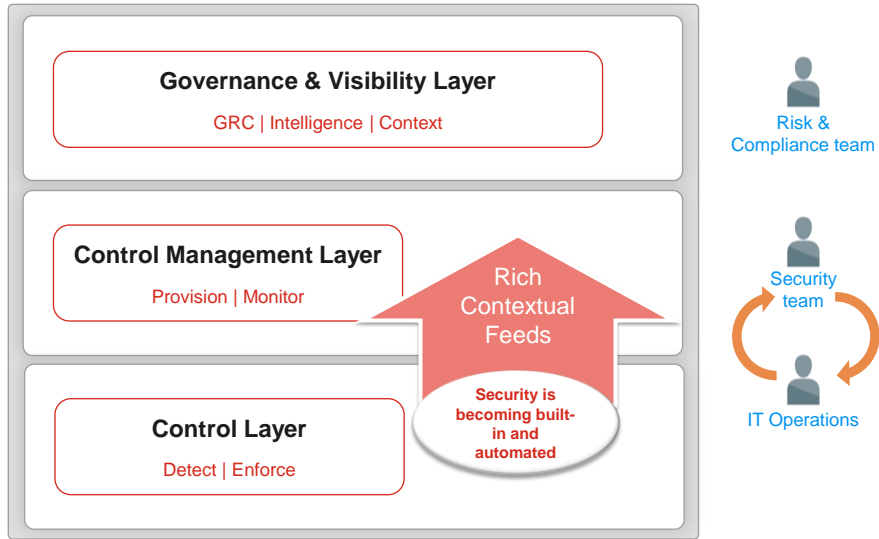
- Ineffective
- Inconsistent
- Complex

Building in information security enforcement in the infrastructure layer ensures:

- Consistency
- Simplified security management
- Enables customers to surpass the levels of security possible in today’s physical



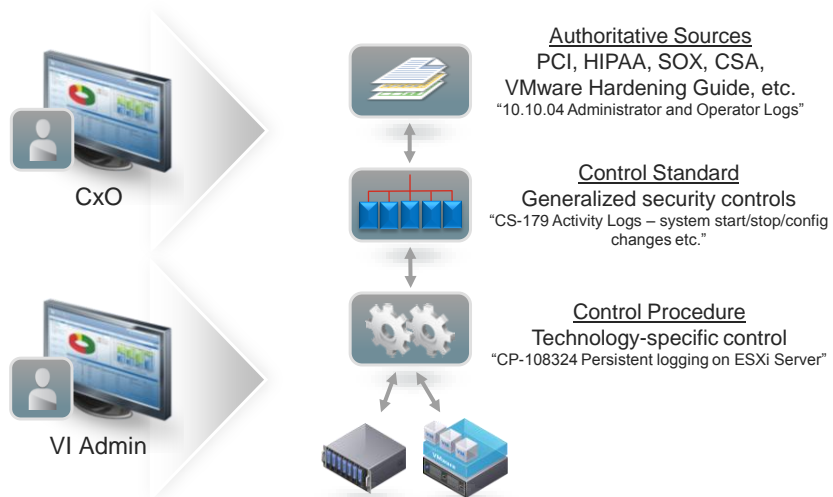
Rethinking the Security Stack



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Introducing eGRC Platform for VMware Environments



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Visibility into the Hybrid Cloud



- Cloud Architecture
- Governance and Enterprise Risk Management
- Legal and Electronic Discovery
- Compliance and Audit
- Information Lifecycle Management
- Portability and Interoperability
- Security, Bus. Cont., and Disaster Recovery
- Data Center Operations
- Incident Response, Notification, Remediation
- Application Security
- Encryption and Key Management
- Virtualization
- Identity and Access Management

Assessing Service Provider Compliance with Archer

Aligns with CSA Consensus Assessments Initiative Questionnaire by automating 195 questions that customers can issue to assess cloud service providers.



Cloud Security Alliance's 13 domains of focus for cloud computing



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Use Case: Assessing Cloud Service Providers

Risk: Choosing the wrong service provider

Results: Benchmarking vendors based on CSA standards

CSA Cloud Assessment Initiative

196 of 196 Completed Actions

Questionnaire ID: 111221

Target: [NewCloud.com](#)

Due Date: 12/23/2010

Progress Status: 100%

History Log: [View History Log](#)

Overall Status: ●

Submitter: Edit

Submission Status: Edit

Reviewer: Edit

Review Status: Edit

Quantitative Summary

Category	Correct	Incorrect	% Correct	Inherent Score	Residual Score	Open Findings
Compliance	15	1	94	15	15	0
Data Governance	16	0	100	16	16	0
Facility Security	9	0	100	9	9	0
General	1	0	100	1	1	0
Human Resources Security	4	0	100	4	4	0
Information Security	73	1	99	73	73	0
Legal	3	1	75	3	3	0
Operations Management	8	1	89	8	8	0
Release Management	6	0	100	6	6	0
Resiliency	11	1	92	11	11	0
Risk Management	13	0	100	13	13	0
Security Architecture	31	1	97	31	31	0
TOTAL	190	6	97	190	190	0

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Securing the Infrastructure



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VMware Hardening Guide

VMware vSphere™ 4.1

Security Hardening Guide
April 2011

VMware

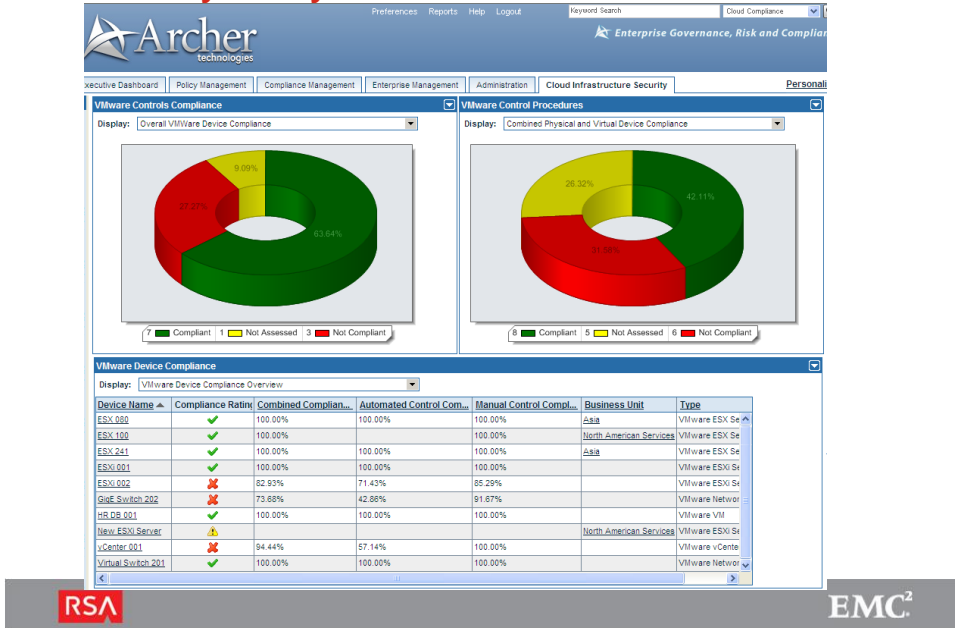
- Used as Authoritative Source in Archer for measuring compliance with best practices



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Visibility: Physical + Virtual

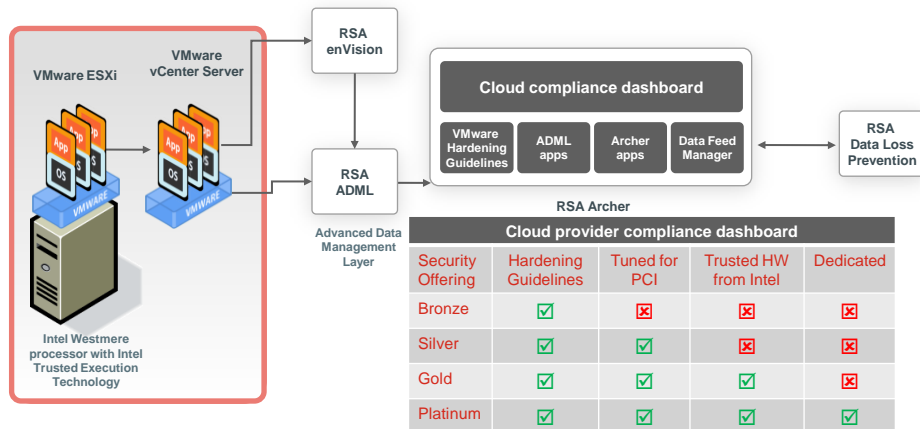


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RSA/VMware/Intel Vision: Verifying the Chain of Trust to control VM in the Cloud

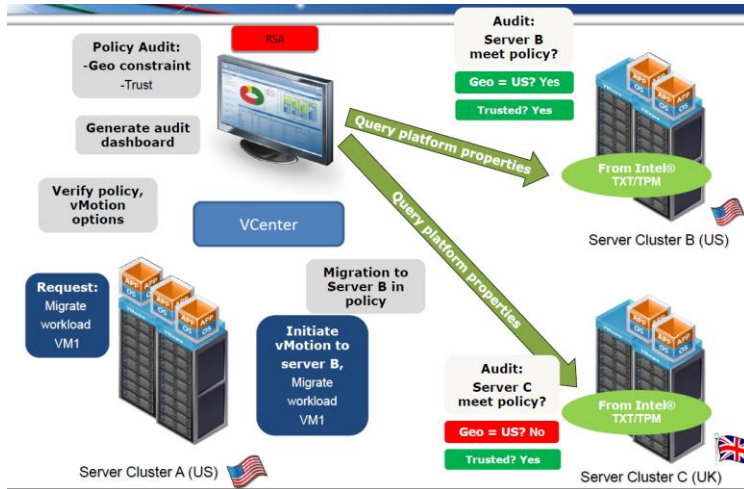
Proof of Concept for Measuring and Monitoring Cloud Infrastructure Security at RSA Conference



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Geolocation Policy in Motion



RSA enVision:

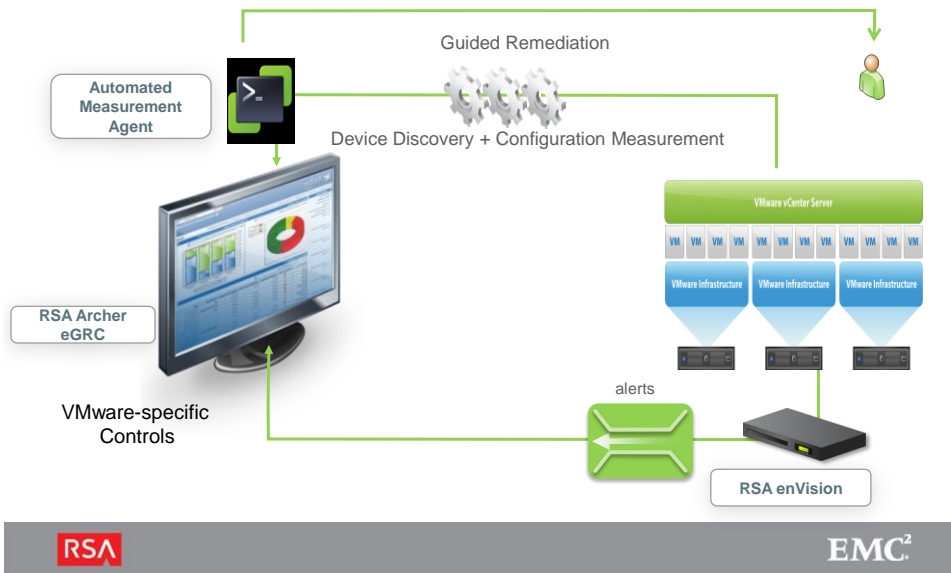
- Collects logs from the VMware stack



- VMware Collector for RSA enVision leverages VMware API's via a single, secure connection to retrieve vCenter and ESX / ESXi logs
 - Over 180 unique messages
 - 19 normalized event categories



RSA Solution for Cloud Security and Compliance v1.0



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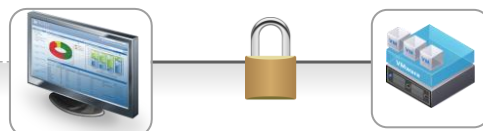
Use Case: Reducing Risk of VM Theft

RISK

Securing virtual infrastructure is often a check list of best practices. Hardening VMware environment is complex and difficult to verify. What can I do to limit the risk of VM theft from my datacenter?

Need to take preventative steps that limit access to VM file, such as:

- Disable Datastore Browser
- Limit Storage User Access
- Limit use of service console
- Use least privileged role concept for system and data access



RSA

EMC²

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Use Case: Reducing Risk of VM Theft

SOLUTION

- Archer has built in control procedures to check for VM file access and other best practices
- From a centralized console security and IT ops can easily see if controls enforce policy
- Solution identifies VMware devices, assesses configuration status, and informs responsible administrator
- enVision monitors to ensure security events not disrupting compliance posture



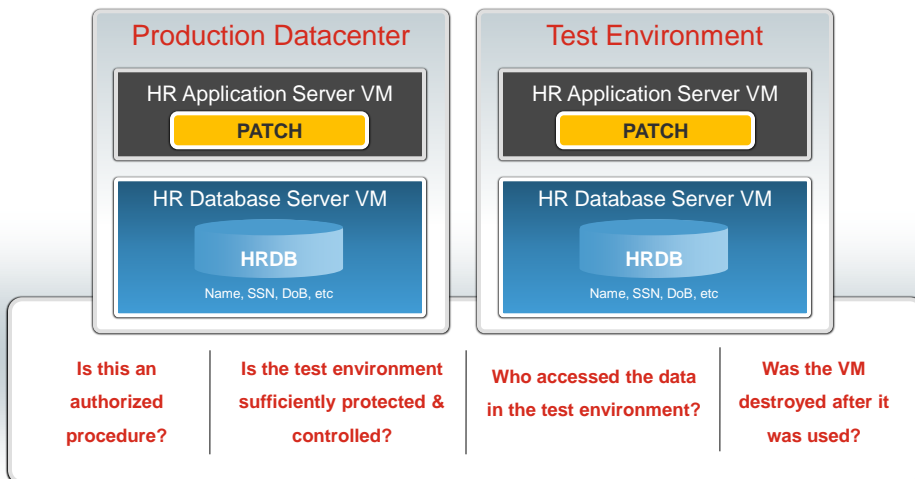
Results: Security and compliance best practices directly aligned with regulations and company policies are implemented and verified



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Scenario: Apply Patch to Production System - Before

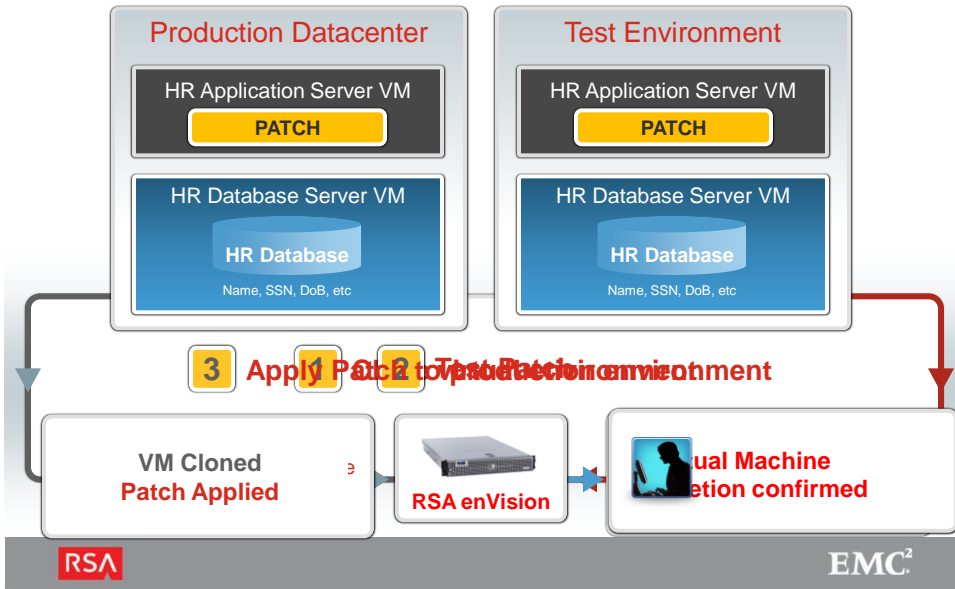


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Scenario

Apply Patch to Production System - After



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Securing the Information

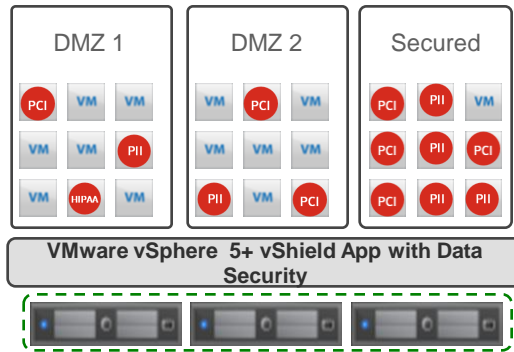
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VMware vShield App: Built-in Data Classification Through RSA DLP



Content Aware Infrastructure

- Classify files within VMs
- RSA DLP classification technology embedded into VMware vShield App with Data Security
- No agents or 3rd party software
- Includes 80+ expert RSA policies out of the box
- Consistent classification across both physical and virtual environments

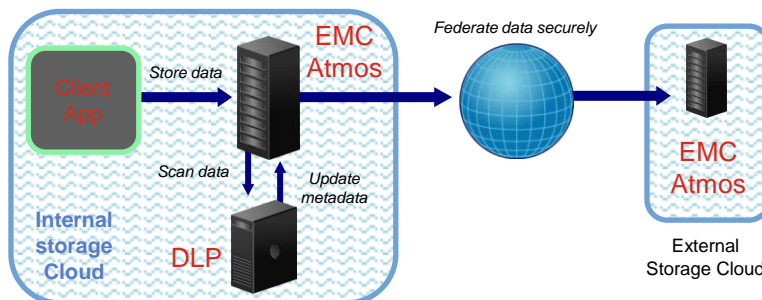


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Building a Content-aware Cloud with RSA DLP and EMC Atmos:

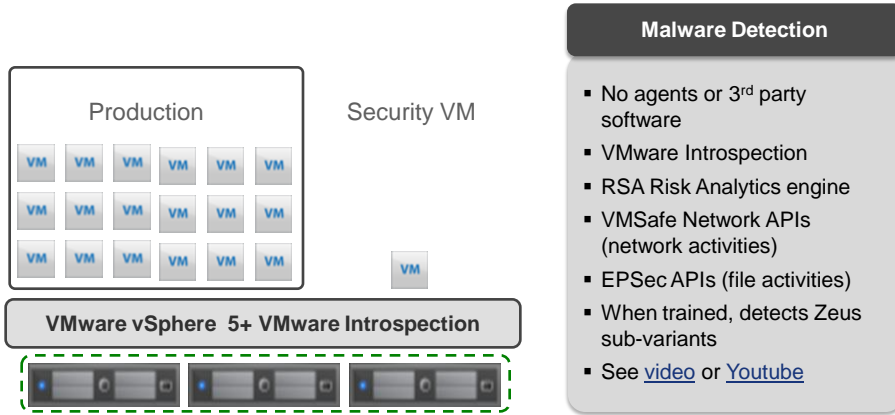
- Atmos metadata update based on DLP policy
- Sensitive data never leaves customer sites or is only sent to trusted external cloud sites
- Build content-aware private storage clouds



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VMware introspection: agentless detection of Advanced Threats



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The Security Division of EMC

rsa.com/rsavirtualization

Thank you!