

AWS re:Invent

How to Meet Strict Security Compliance Requirements in the Cloud

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Enterprises & the Cloud

- Security & compliance are top priorities for enterprises, regardless of where things are deployed
- Many organizations recognize the benefits of the cloud – and need to understand security requirements

Enterprises & the Cloud

- Data sovereignty
- Multi-tenancy
- Compliance

76% indicated they had
compliance or data
confidentiality
requirements

Source: Trend Micro survey, May 2013

PCI Requirements as a Reference ...

February, 2013

NEW



	Client
	CSP

Cloud Layer	Service Models		
	IaaS	PaaS	SaaS
Data	 You! 		
Interfaces (APIs, GUIs)			
Applications			
Solution Stack (Programming languages)			
Operating Systems (OS)			
Virtual Machines			
Virtual network infrastructure			
Hypervisors			
Processing and Memory			
Data Storage (hard drives, removable disks, backups, etc.)			
Network (interfaces and devices, communications infrastructure)			
Physical facilities / data centers			



Shared responsibility



- Facilities
 - Physical Security
 - Physical Infrastructure
 - Network Infrastructure
 - Virtualization Infrastructure
- **Operating System**
 - **Application**
 - Account Management
 - Security Groups
 - Network Configuration

Deep Security



What does Deep Security deliver?

Centralized security control management

Technical details

Unified management interface for multiple regions/credentials

Simplified policy management across the organization

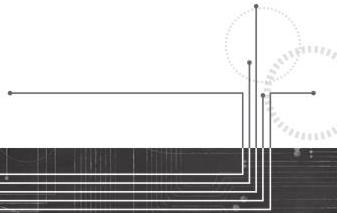
Broad platform support

Agent provides protection on the Amazon EC2 instance

Your needs

Helps address compliance challenges

Enforces security policy within your organization



Managing another binary

Flexible deployment to fit any situation

Deploy via user-data, Chef, Puppet, SSH/PowerShell, etc.

Install the agent in an AMI and activate on demand

Keeping up to date

Agent updates via Deep Security, no extra tools needed



Demo – User-data deployment

Demo – Manager-initiated activation

Being aware of assets in AWS

Deep AWS integration

AWS cloud connector automatically polls region

Automate security actions for new instances

Full visibility of unprotected instances

Keeping up to date

Connector syncs regularly for constant awareness



Demo – Automated decision making

Deep Security + SecureCloud



What does SecureCloud deliver?

Full disk encryption

Technical details

Intelligent block level encrypted

Used AES-256 cipher from FIPS 140-2 certified library

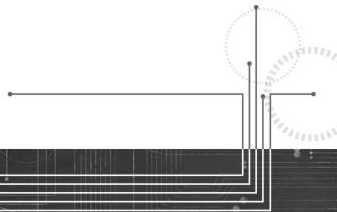
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Preventing unauthorized access to data

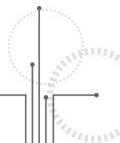
Deep AWS integration

Leverage AWS metadata for key management policies

Boot-volume encryption for Windows & Linux

Keeping up to date

Integrity check regularly validates encryption policy



Demo – Advanced key release policy

Session Summary

Meet strict security and compliance requirements with a security solution that is:

- **Smart:** Automatically apply security controls
- **Simple:** Manage through a single console with reporting and alerting
- **Security that fits:** Embed security into your cloud architecture

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- **SEC 309: Learn How Trend Micro Used AWS to Build their Enterprise Security Offering (Deep Security as a Service)**
 - Thursday 11 am - noon



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AWS re:Invent

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Thank You