Roadmap: The Evolution of Data Center Security, Risk and Compliance - 1640

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Product Management, Data Center Security
Agenda

1. the evolution of the data center
2. the growing security challenge
3. Symantec Data Center Security
4. product strategy and roadmap
1 the evolution of the data center
the bar is set high...

AWS is the new benchmark

- many organizations prototyping SDDC infrastructures (NSX, OpenStack)
- focus on automation for lower TCO
- security automation is the bottleneck

Security needs to evolve

- solutions integrated with the SDDC infrastructures
- automation across network and server security policies
- better protection with more tightly integrated solutions
the adoption curve

Virtualization is being stalled due to concerns around Security and Compliance.
the vision

The data center of the future is software-defined. It is dynamic and application-centric. Our mission is to support our customers as they evolve to the SDDC.
Compute and storage virtualization

A dynamic, application-centric data center needs dynamic, application-centric security.

“By 2015, 40% of security controls used in Enterprise data centers will be virtualized, up from less than 5% in 2010”
– Neil MacDonald

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1. Drive down hardware and power costs
2. Abstract workload from hardware
3. Provision and monitor services

Support for key standards for private clouds e.g. Openstack and partner with vendors delivering those standards e.g. Amazon, VMWare, Openstack

Hypervisor

Software Defined Services
Integrated security orchestration

Network Virtualization
Security for hybrid networks

Compute/Storage Virtualization
Security for virtual hypervisors

On-Prem/Private/Public Cloud Resources

virtualization
Little “v” - Consolidation of Identical Apps
little “v”- virtualization
Consolidation of Identical Apps

Driver:
Reduce Hardware and Power Costs

Security Concerns:
New Threat Surfaces
  • Cloud Admin
  • Hypervisor
  • Management Plane

Network Security Zones remain unchanged
big “V”- virtualization
full abstraction of application from hardware
big “V”- virtualization
full abstraction of application from hardware

Driver:
Agility, Speed, and Utilization

Security Concerns:
Motioning
• Security stays with workload
• Demonstrate Compliance

Network Security Zones
• Static Network Zones can impede value
**network virtualization**

A dynamic, application-centric data center needs dynamic, application-centric security.

### Software-Defined Data Center

<table>
<thead>
<tr>
<th>Applications and Policies</th>
<th>Dynamic, context-based, policy-centric security</th>
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<tbody>
<tr>
<td>Software Defined Services</td>
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“By 2015, 40% of security controls used in Enterprise data centers will be virtualized, up from less than 5% in 2010”

– Neil MacDonald

1. Agility and Speed
2. Abstract workload from hardware
3. Drive down hardware costs
small “sdn”- Software Defined Networking mimic hardware security zones with software
small “sdn”- Software Defined Networking mimic hardware security zones with software

Driver:
Agility, Speed

Security Concerns:
Motioning
- Security stays with workload
- Demonstrate Compliance

Network Security Zones
- Static Network Zones can impede value
big “SDN” - Software Defined Networking
micro segmentation by application
big “SDN” - Software Defined Networking micro segmentation by application

**Driver:**
Agility, Speed

**Security Impacts:**
Motioning
- Firewall rules follows application

Network Security Zones
- Large number of security zones
- No need to group apps by zones
the players
Clear leaders are emerging within layers and across the stack.
the growing security challenge
benefits of data center virtualization

“By 2015, 40% of security controls used in Enterprise data centers will be virtualized, up from less than 5% in 2010”

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what customers are still concerned about...

1. Centrally apply and attach policies to workloads

2. Automate workflows across services

3. Provision and monitor services

- **Threats**— how do I continuously combine updated threat and vulnerability intelligence with workload context to *optimize security response*?

- **Security Consistency** — how do I ensure consistent security across my *virtual and physical* infrastructure so I can move workloads from to physical to virtual.

- **Compliance** – how do I make sure adequate controls are in place at all times to *ensure* and *demonstrate* regulatory compliance?

- **Policy** – how do I make sure I have the right menu of policies available for orchestration and how do I *continuously adapt* these across multiple products in *response* to the changing threat environment?

- **Segregation of Duties** – how do I ensure the *integrity* of my data center security in the face of converging admin roles?

- **Security Tax** – how do I optimize security to minimize the *performance* and operational cost to my data center?
3 Symantec Data Center Security
Symantec SDDC vision

1. Embed Security into the platform
2. Integrate across point technologies
3. Automate and orchestrate security

Applications and Policies
- Software Defined Services
- Network Virtualization
- Compute and Storage Virtualization
- On-Prem/Private/Public Cloud Resources

Security Orchestration Platform
- Server Security
- Data Store Security
- VDI Security
- Unified Assessment

Data Center Security
Automation and Management

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Embed security into the platform

- Integration with SDN/SDDC Platform
- Security via the Hypervisor
- Frictionless agents to deploy higher controls

Integrate across point technologies

- Bring together multiple controls into a single offering
- Integrate across policy and deployment
- Easily allow security to “scale up” based on the policy of the workload
Automate and Orchestrate Security

Automate key processes to ensure workloads stay secure

- Deployment and Provisioning
- Updating security baselines to respond to external threats
- Implementing new security profiles as workloads change
- Remediating workloads through their lifecycle

• Ongoing validation and continuous monitoring
product strategy and roadmap
protecting the data center at each layer...

1. Infrastructure
   - VM Backplane
   - vCenter (Management)
   - AWS Infrastructure
   - Software Defined Networks

2. Workload
   - Threat Protection Focus
   - Workload Server Centric

3. Application/Data Plane
   - Information Protection Focus
   - Designed for key applications in the data

- Security Orchestration Platform
  - Operations Director
  - Security Service
  - Assessment / Discovery

- Data Store Security

- Server Security

- VDI Security

- Infrastructure Protection
  - Backplane Hardening
  - SDN Integration
Symantec™ Data Center Security: Server

- Hypervisor-based security virtual appliance
- Low OPEX – Fully integrated with VMware NSX
- Always On – Anywhere Protection
- Utilizing Symantec Best in Class AV and Insight Reputation
- What’s Next: Guest Network Threat Protection

- Frictionless AV Protection

- Scale up to Full Lock Down
- Wizard Driven Simplified Hardening
- Protected Application Whitelisting and Control
- What’s Next: Application Centric Protection

- Integrated with “CSP”

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Data Center Security: VDI

AV Protection with Insight Reputation
- Hypervisor-based security virtual appliance
- Low OPEX – Fully integrated with VMware NSX
- Always On – Anywhere Protection
- Utilizing Symantec Best in Class AV and Insight Reputation

Thin Client
- Citrix XenApp
- VMware View/Horizon

Non-Disclosure Commercial in Confidence
Data Center Security: Data Store

Symantec™ Data Center Security: DataStore

Unified Protection

- Threat Protection - Content Filtering
- DLP Integration
- Data Insight – Encryption
- Unified Policy and Administration

Across Critical Applications & Data

- Messaging (Exchange)
- NAS – Filers
- NetApp
- SharePoint
- Cloud Apps

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# High-level product roadmap

## DC Protection: Integrated security for agile workloads, networks, and data intensive/strategic applications

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<thead>
<tr>
<th>Current</th>
<th>Phase II</th>
<th>Phase III</th>
</tr>
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<tbody>
<tr>
<td>Anti-Malware</td>
<td>DCS: Server (HyperVisor AV Server Hardening - CSP)</td>
<td>DCS: Server (Application Centric Security Enhanced IPS)</td>
</tr>
<tr>
<td>Server Hardening</td>
<td>Symantec Endpoint Protection</td>
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</tr>
<tr>
<td>VDI Protection</td>
<td>Symantec Virtual Security Manager</td>
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<tr>
<td>Data Store Protection (Exchange, Sharepoint, NAS, Cloud)</td>
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## DC Security Orchestration: Automated evaluation and application of security to virtual environments

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<tr>
<td>DCS: Operations Director</td>
<td>Security settings for New Workloads</td>
<td>Security settings in response</td>
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