

RSAC[®]Conference2015

San Francisco | April 20-24 | Moscone Center

SESSION ID: SPO1-R04

Automating Security Workflows: The SDDC Approach

Josh Soto

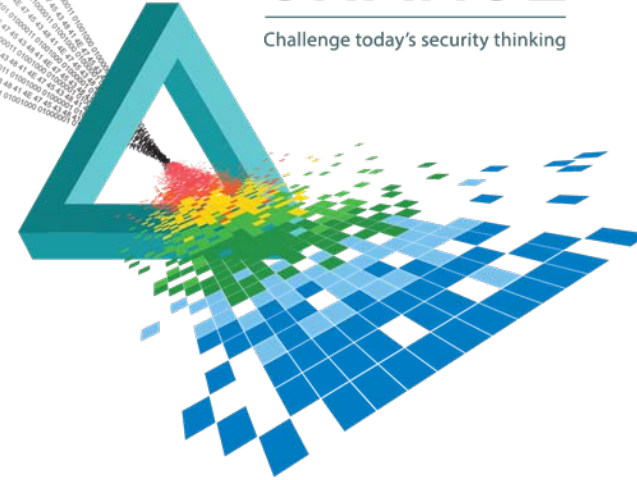
Product Marketing Manager
VMware

Catherine Fan

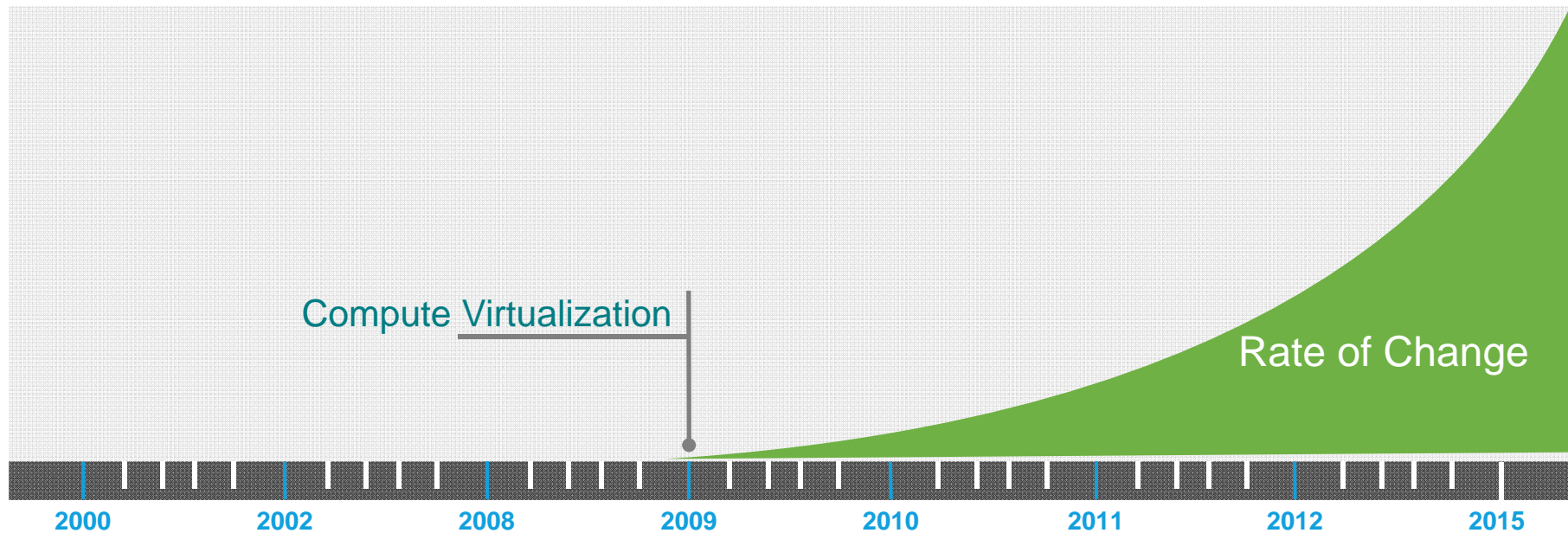
Product Line Manager
VMware

CHANGE

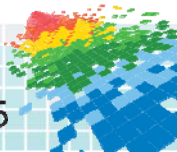
Challenge today's security thinking



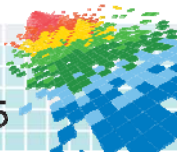
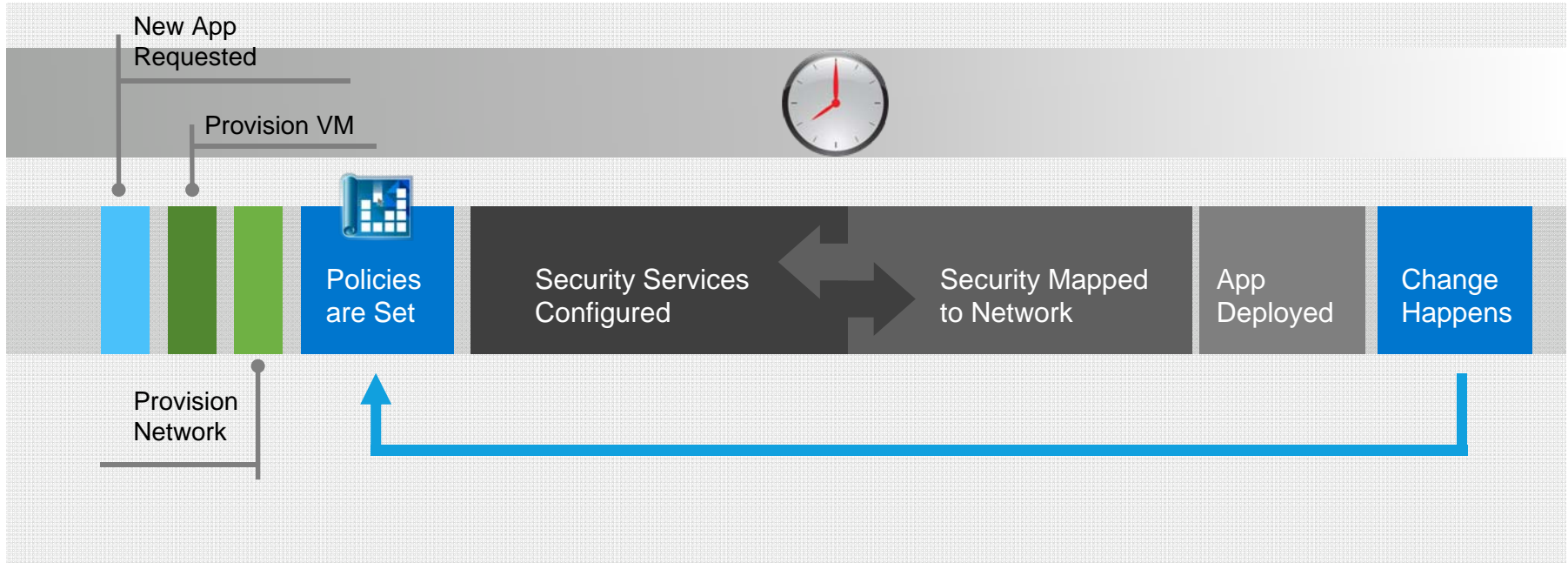
Impressive rates of change



First year this event was named "RSA Conference"



The pressure on security

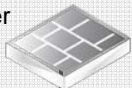


Change is inevitable

DAY
1

Data Center

Perimeter
Firewall



Finance Application



DMZ/Web



App



DB

SQL database server provision request

Database policy assumptions are:

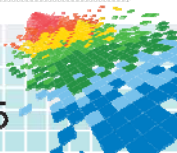
- No confidential information
- No personal privacy information
- Vanilla DB policies



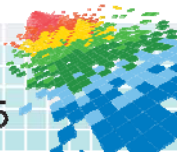
DAY
2

Sensitive data is added to the new
database VM

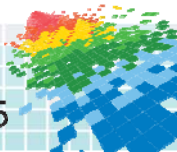
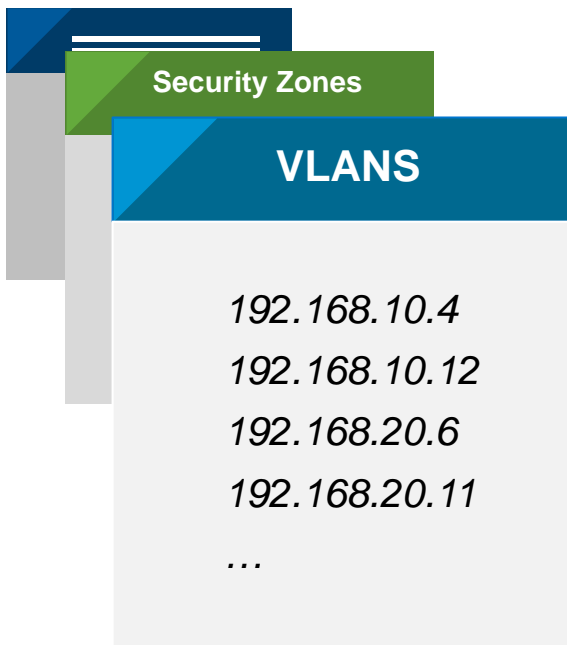
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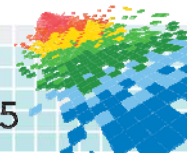
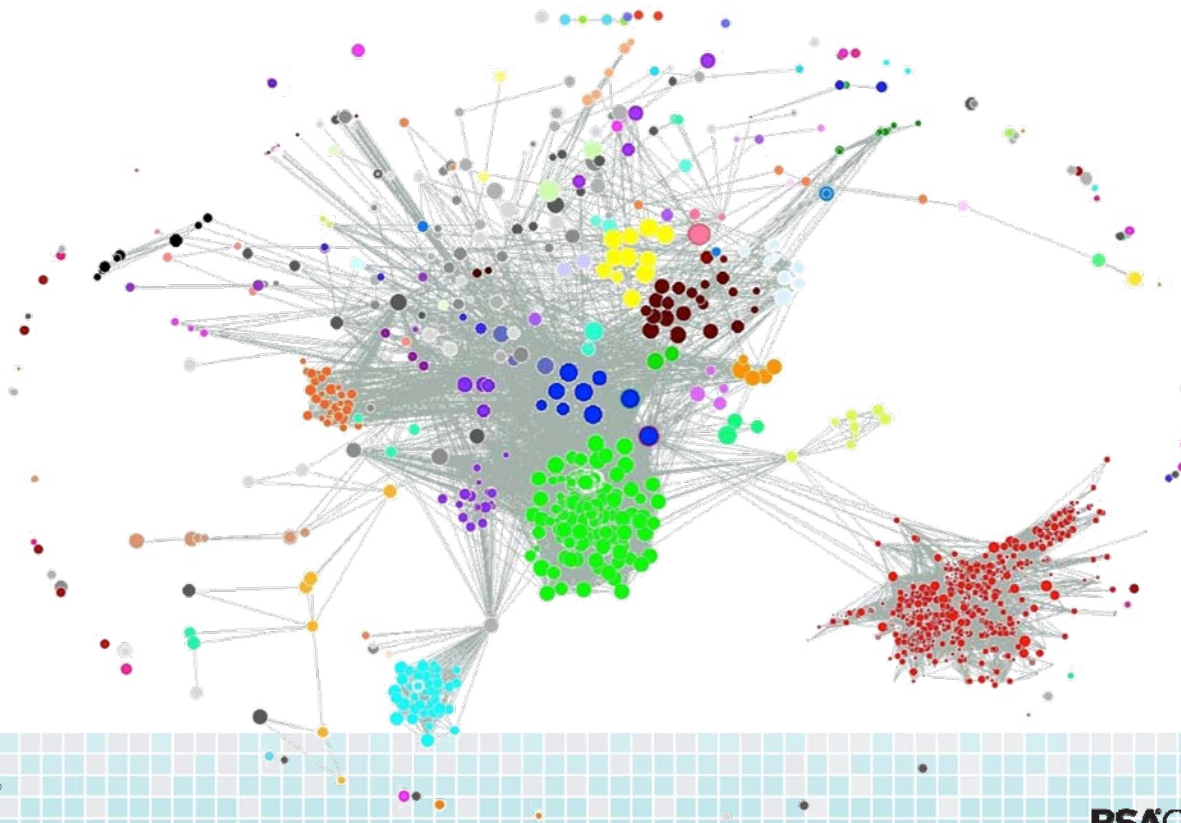
Ideally, every app would have dedicated resources



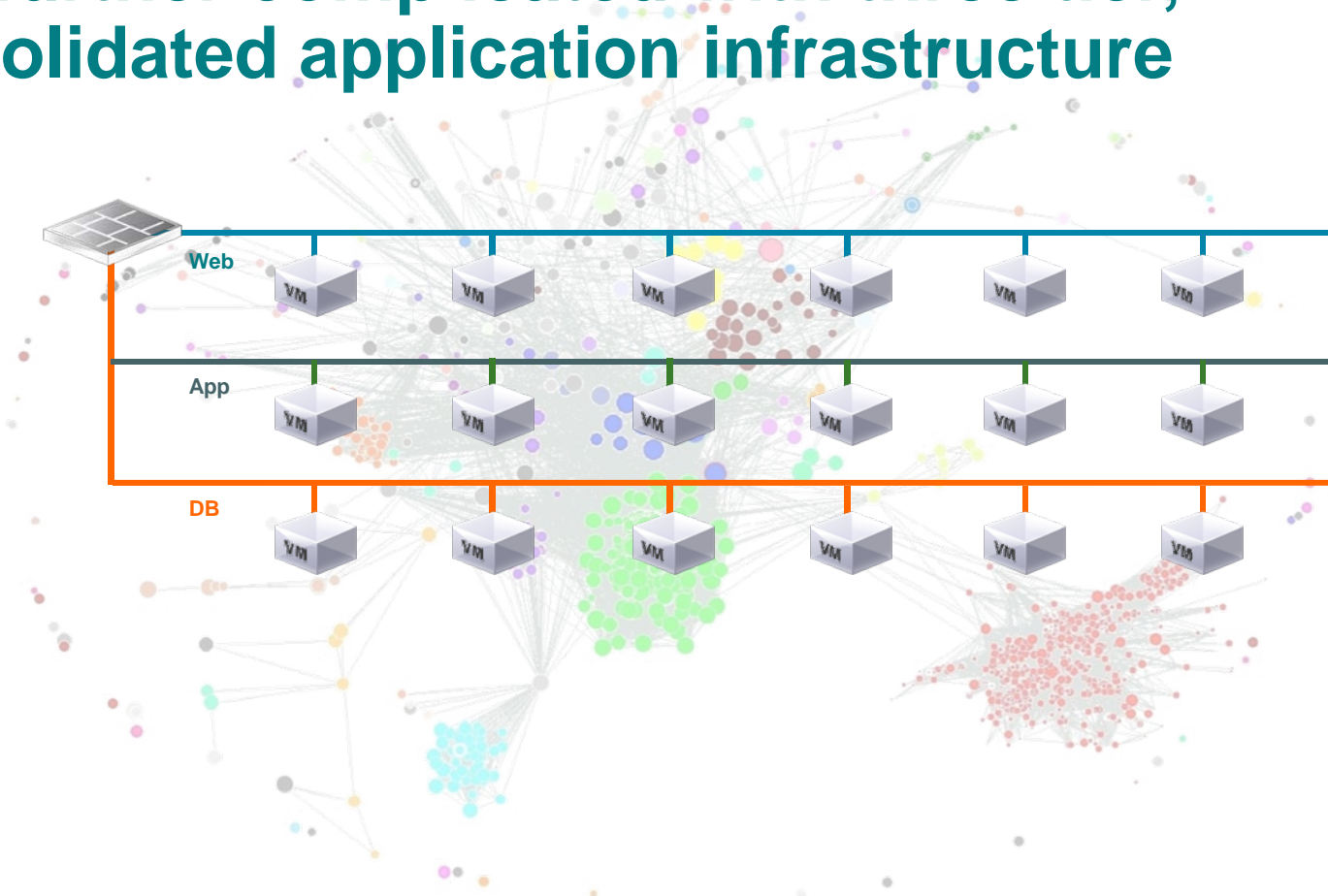
Manageability necessitates grouping



Today, security is tied to a complex and rigid network topology

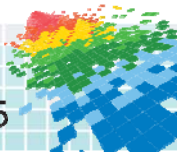


And further complicated with three tier, consolidated application infrastructure



All of this results in a universal loss

Strain on Business	Strain on Security
Missed Business Opportunities	Security Compromises
Inability to adapt to market changes	Slow response to threats and changes



“We cannot solve our problems with the same way of thinking that created them.”

-Albert Einstein

What's needed: a new architectural approach

Software-Defined Data Center

Applications



Virtual
Machines



Virtual
Networks

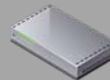


Virtual
Storage

Data Center Virtualization



Compute
Capacity



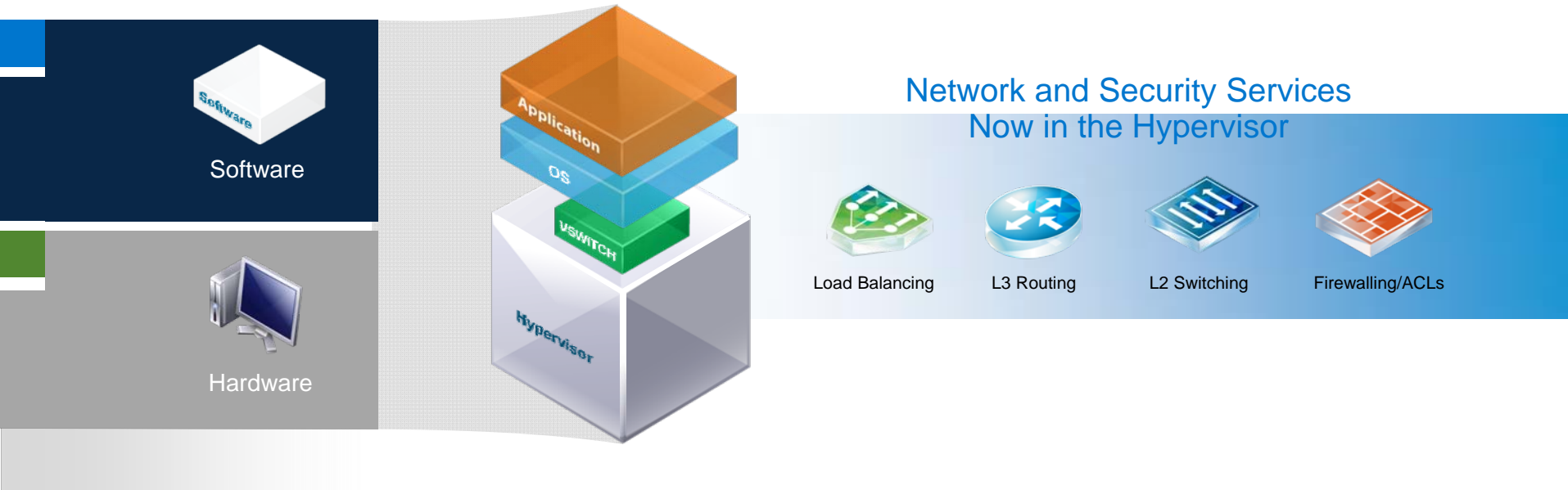
Network
Capacity



Storage
Capacity

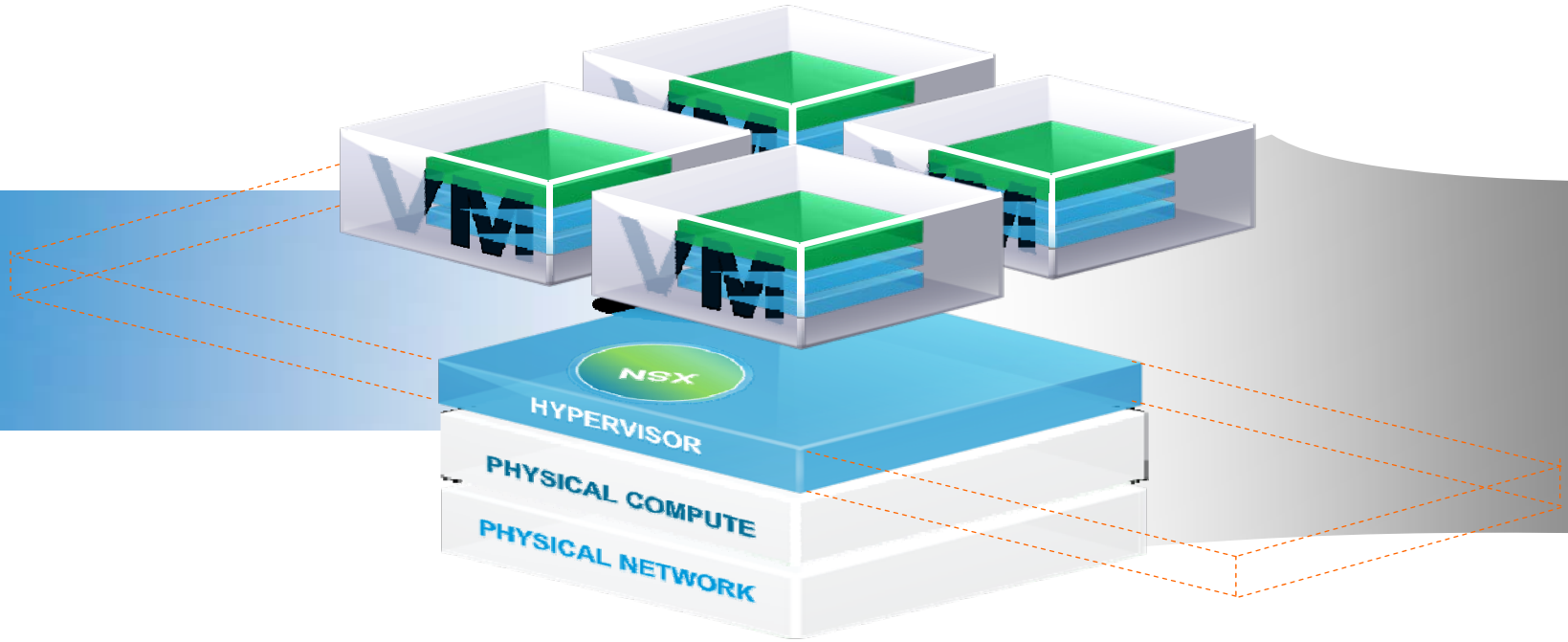
Location Independence

The next-generation networking model



Visibility

NSX is uniquely positioned to see everything



Granular control becomes possible



NSX

Built-in Services

Firewall	Data Security
Server Activity Monitoring	VPN (IPSEC, SSL)

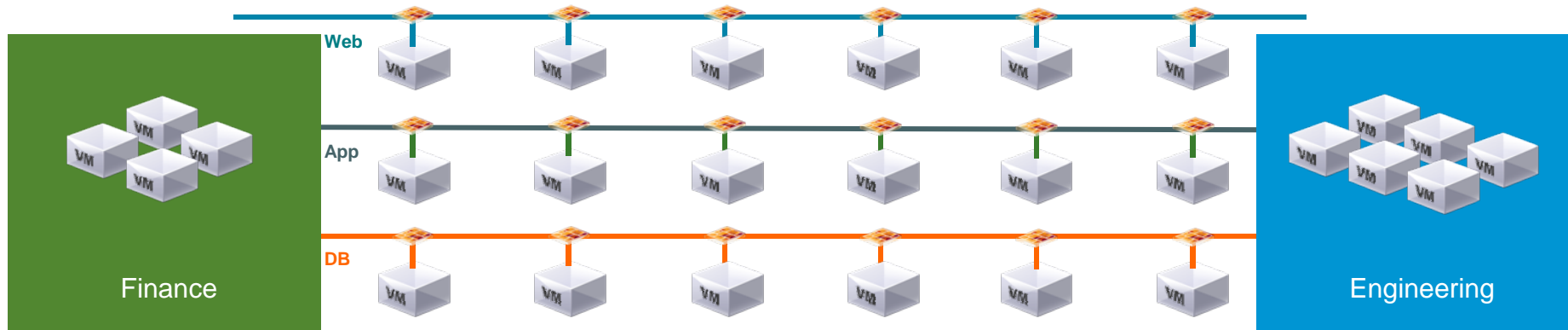


Third-party Services

Antivirus	Next Gen Firewall	Intrusion Prevention
Security Policy Management	Vulnerability Management	Identity and Access Mgmt


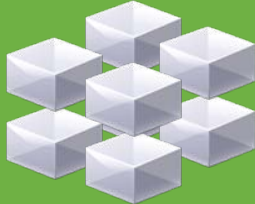




...and more in progress

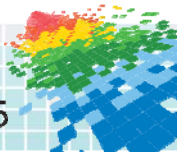
Intelligent grouping



Intelligent grouping

Groups defined by customized criteria

<p>Operating System</p> 	<p>Machine Name</p> 	<p>Services</p> 
<p>Application Tier</p> 	<p>Regulatory Requirements</p> 	<p>Security Posture</p> 

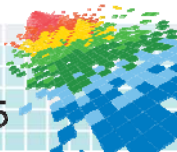
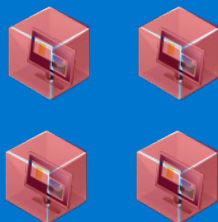


Use case: intelligent grouping for unsupported operating systems

OS no longer supported on several systems

These systems need policy which restricts access to only email servers

Unsupported OS Group

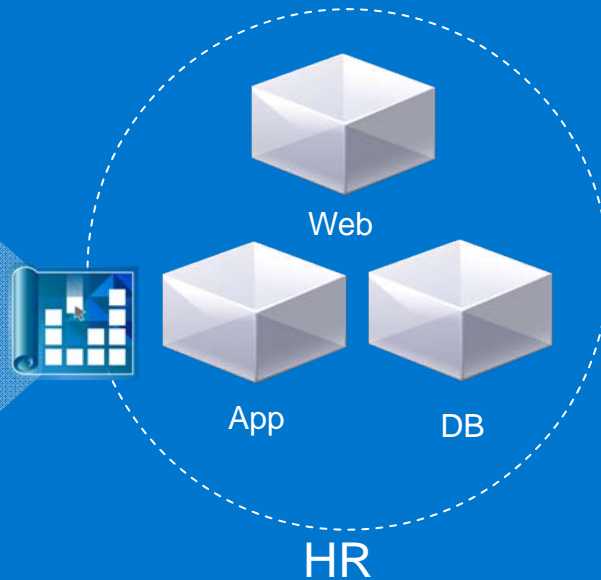


Policy and services assigned to groups

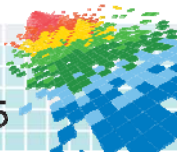
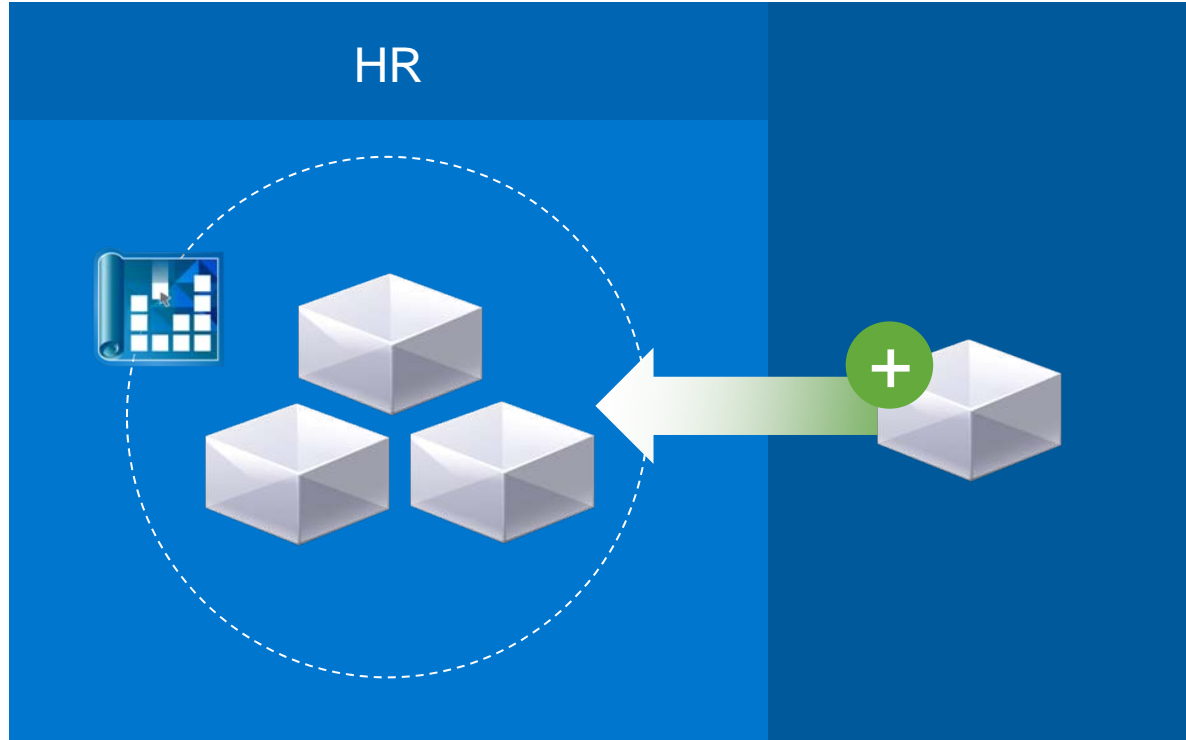
Define Once

- Define Policy
- Assign Services
- Automate Response

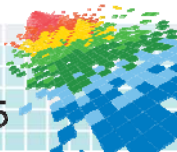
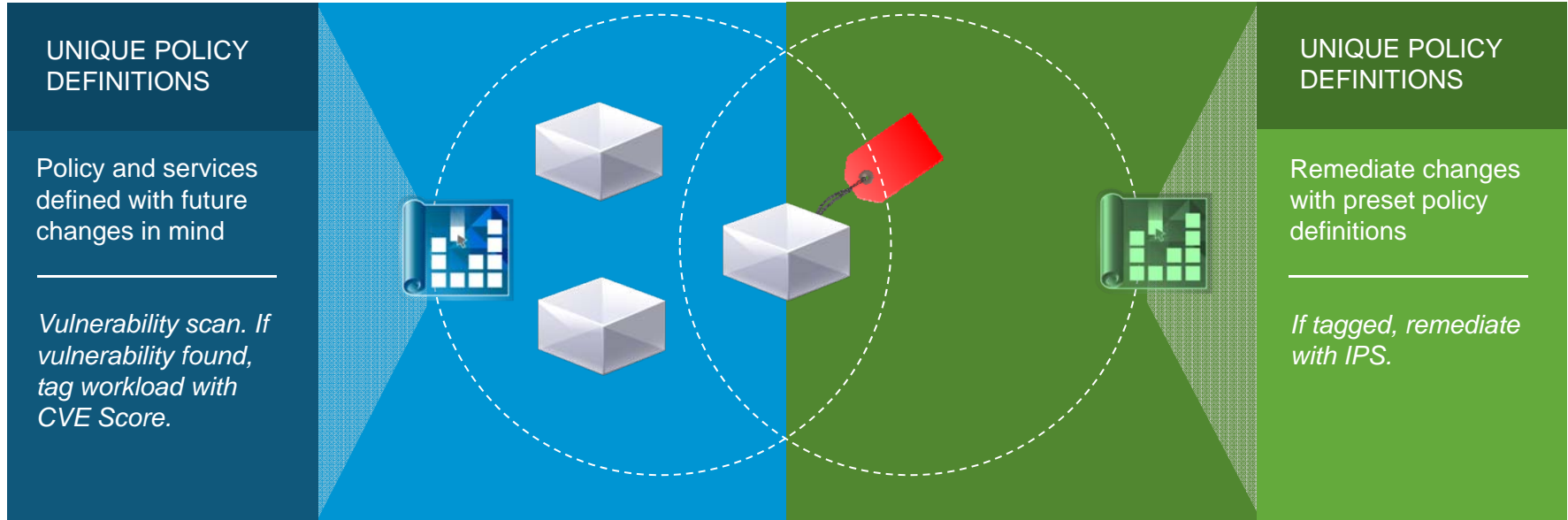
Apply Repeatedly



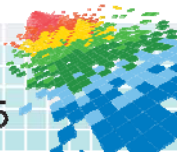
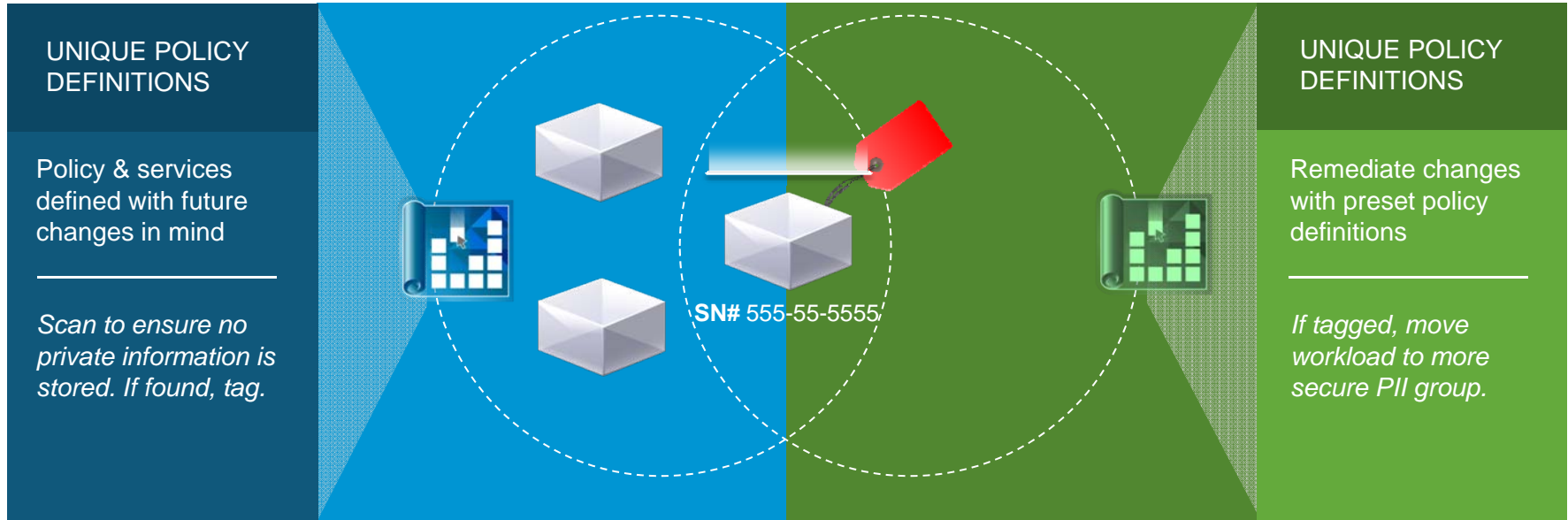
Consistent policy and services



Adaptable and proactive security



Automated Security in a Software Defined Data Center



Summary

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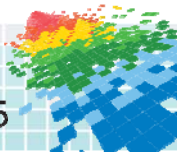
SDDC with NSX is fundamentally a more effective security solution



Removing grouping decisions from the network topology enables intelligent security decisions

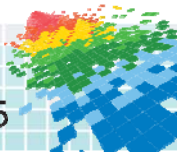


NSX equips security teams with the ability to automate and adapt to changes



Learn more

- ◆ Visit the VMware booth: South Hall (#1315)
- ◆ Learn more about network virtualization and micro-segmentation:
<http://www.vmware.com/go/nsx>



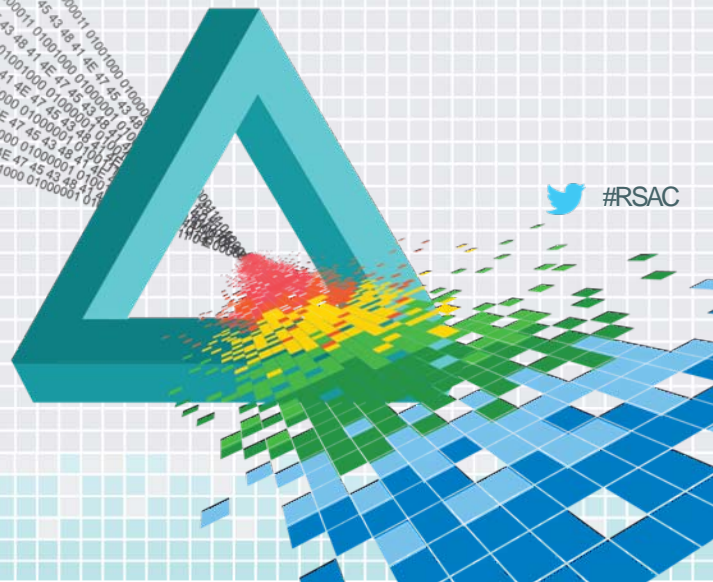
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Thank you

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