

Security in
knowledge

OVERHAULING COMPLIANCE FOR SOFTWARE-DEFINED DATACENTERS

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RSA CONFERENCE
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— OUR EXPERT PANEL



Hemma Prafullchandra
(Moderator)
CTO and SVP
HyTrust

Responsible for helping drive security and compliance product innovations and strategy. As an evangelist for what's possible, she pushes HyTrust and the eco-system (partners, industry bodies, customers) to enable cost-effective, secure deployment of virtualization & cloud technologies.



James Greene
Technical Leader, Data Center Security
Intel

Responsible for the definition of products and usage models for datacenter and cloud security solutions. He works with systems, software and service providers to enable the implementation of new technologies.

Co-author of the book: *Intel® Trusted Execution Technology for Servers: A Guide to More Secure Datacenters*



Evelyn de Souza
Senior Security Strategist
Cisco

Responsible identifying new security solutions for emerging industry trends such as cloud, SDN, mobile and cyber threats.

Co-chair Cloud Security Alliance Cloud Controls Matrix

Weekly column on WIRED Insights as well as Ask the Data Center Security Expert @Cisco.com

— LESS BUZZ, MORE EDUCATION

▶ How do you make sense of all the hype?

Software-Defined Data Center

Software-Defined Infrastructure

Software-Defined Networks

Software-Defined Security

Open Source

OpenFlow

OpenStack

Proprietary

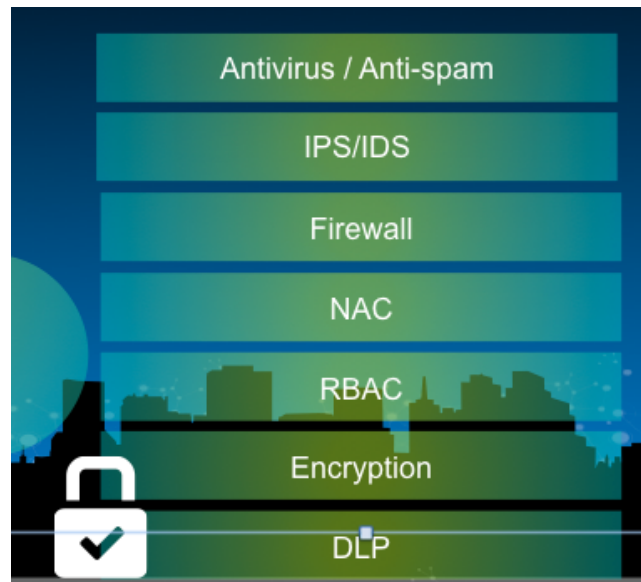
— DRIVERS OF CHANGE

- ▶ New business initiatives
 - ▶ At lower cost and with greater agility!
- ▶ Supplier consolidation
 - ▶ Changing/New IT supply chain
- ▶ New threat vectors, changing adversaries
- ▶ New IT architecture models
 - ▶ Increasing pace of innovation and experimentation
- ▶ New regulatory mandates and policies

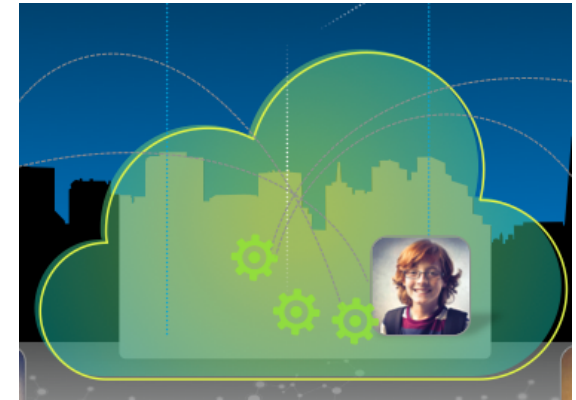
EVOLUTION OF SECURITY AND COMPLIANCE CONTROLS



- ▶ Defense in depth – perimeter and key infrastructure security



- ▶ Layered security



- ▶ Context-aware – from data- and user- centric security

SD(X) COMPLIANCE CHALLENGES

Where is the data?

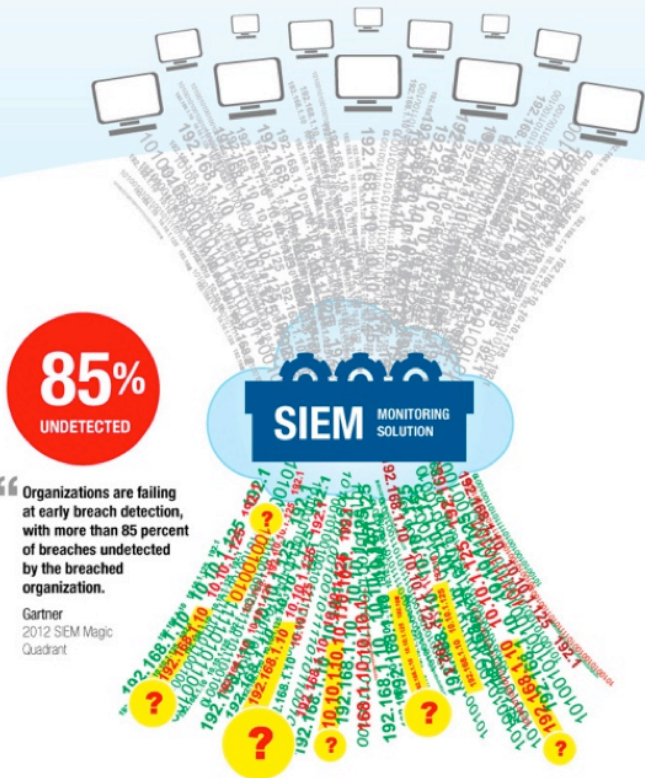
How do you automate security functions?

How do you get control and visibility of the security stack?

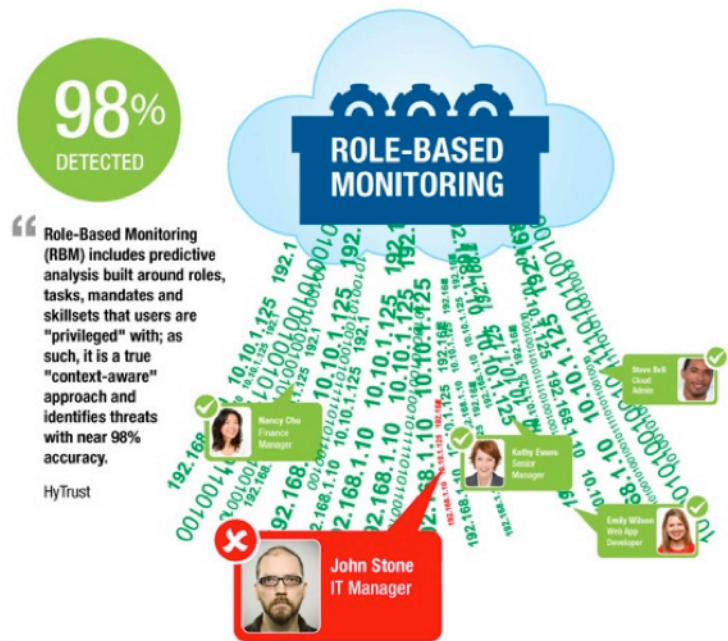
Do networking properties migrate with the right sets of controls?

CONTINUOUS MONITORING

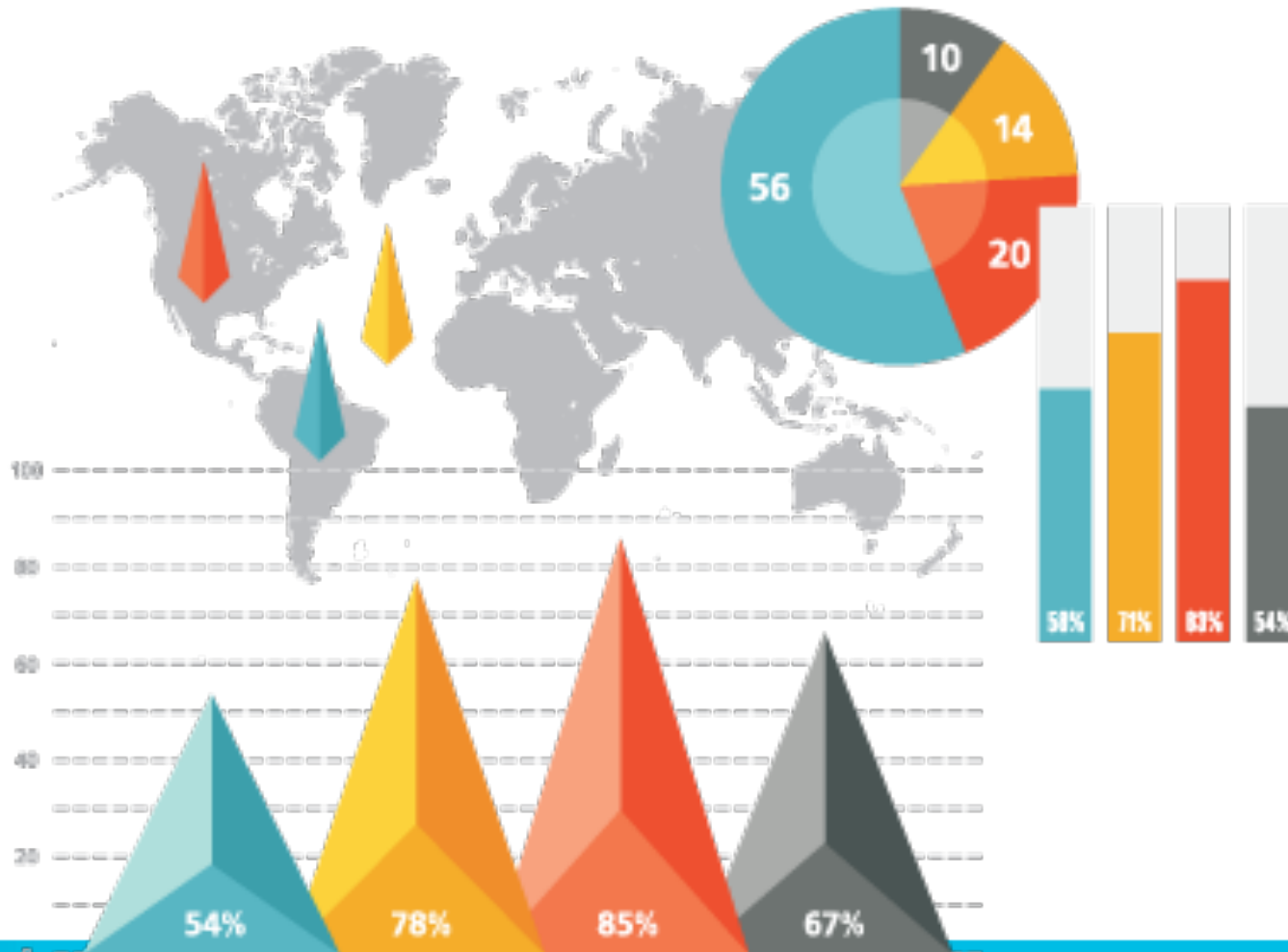
STATE OF MONITORING TODAY'S SECURITY & EVENT MONITORING



FUTURE OF MONITORING ROLE-BASED MONITORING



SCALE of SECURITY ANALYTICS



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— KEY TAKEAWAYS

- ▶ Software-Defined: review and consider how this new layer needs to be secured, and how it impacts existing controls
- ▶ Data: Including Virtual Machines – understand where it might reside and control appropriately
- ▶ Visibility of the IT supply-chain: Implement role-based, context-aware monitoring
- ▶ Scale:
 - ▶ AUTOMATE infrastructure hardening (e.g. configuration management, account management, ...)
 - ▶ Consider “big data” analytics BUT ask for Real-time Alerting so that action can be taken immediately

— References

- ▶ www.hytrust.com
- ▶ www.intel.com
- ▶ www.cisco.com

Thank you!

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