

SHARE Session 14021

Protecting Critical Data on a z/OS Mainframe: A New Attitude

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AGENDA



Introduction



This part of the presentation discusses the current threat landscape and how enterprises are dealing with the challenges.

Challenges for z/OS



This part of the presentation discusses the challenges enterprises face with interpreting with integrating z/OS into their overall Security Intelligence Architecture and Operations.

z/OS Security Intelligence Maturity Model



This part of the presentation shows how Vanguard looks at security intelligence and a proposal for a framework and maturity model for z/OS Security Intelligence.







Current Threat Landscape

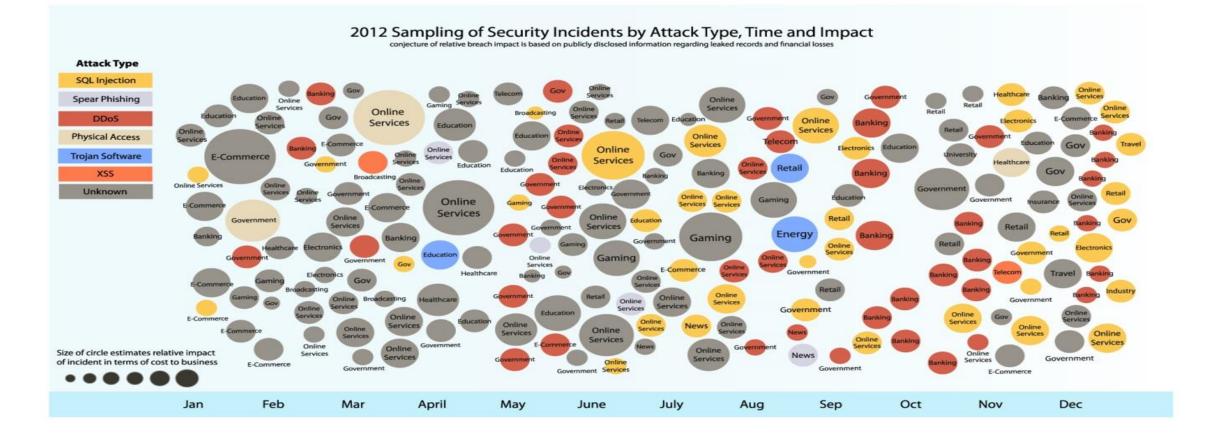




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Attack Statistics





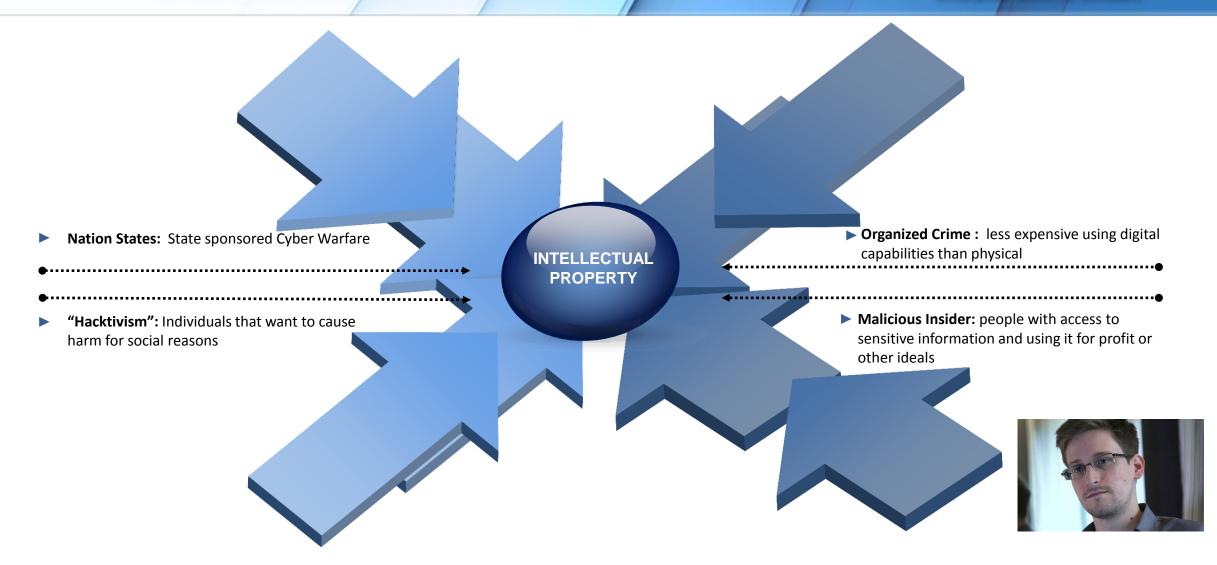
Source: IBM X-Force® Research and Development





Threat Actors









Sophistication



Low Level

- Motivation: Fun, nothing else to do;
- Target: anybody
- Funding: None

Medium Level

- Motivation: Reputation or Social;
- Target: Corporations, Governments, High Profile People;
- **Funding**: Limited funds but deep expertise;

High Level

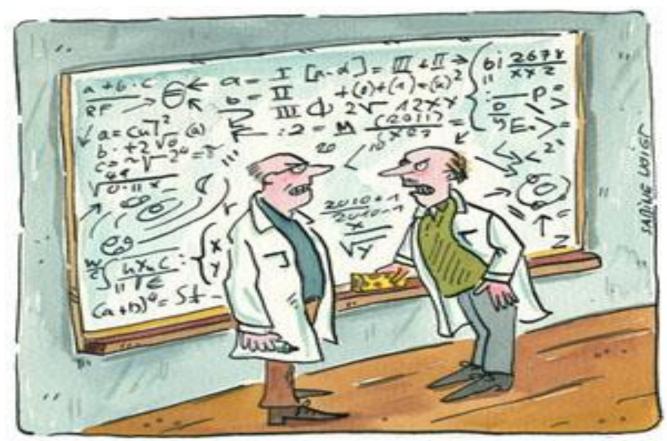
- Motivation: Espionage, Influence, Trade Secrets, Inside Information;
- Target: Government Agencies, Contractors, Think Tanks, Corporations
- **Funding**: Well funded and deep expertise;





Sophistication





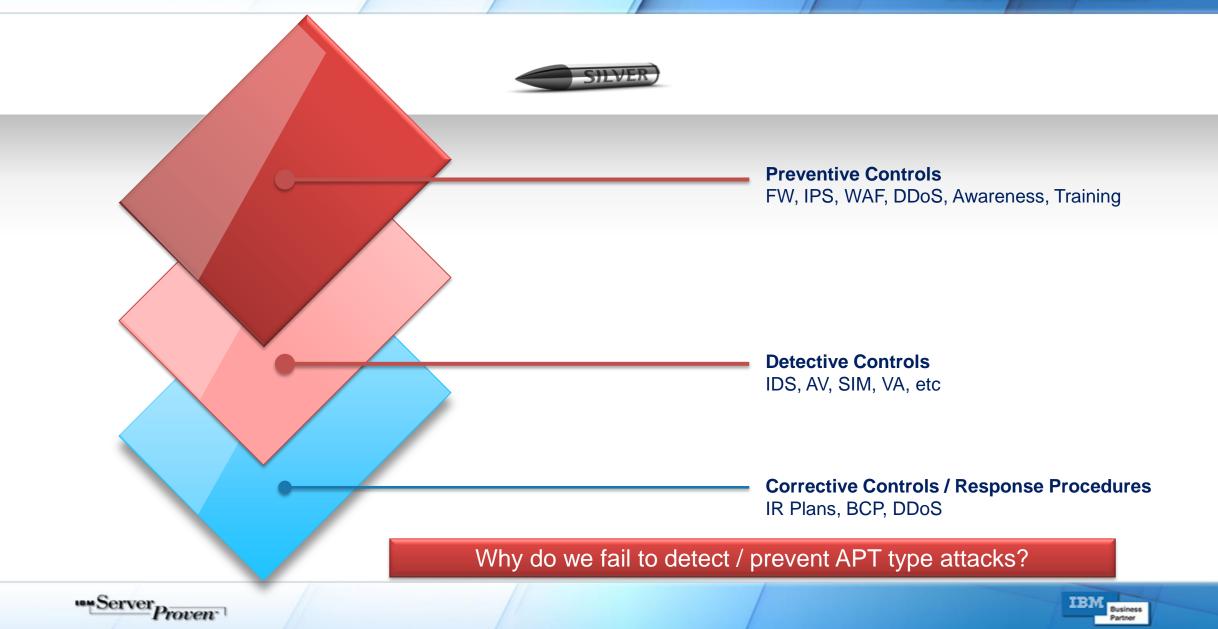
"If you think <u>this</u> is advanced, how do you expect to deal with APT?"





Traditional Security - Set of Layered Defenses





Verizon Data Breach Report 2013

- Recommendations:
 - Ensure essential controls are met; regularly check that they remain so;
 - Collect, analyze and share incident data to create a rich data source that can drive security program effectiveness;
 - Collect, analyze, and share tactical threat intelligence, especially Indicators of Compromise (IOCs), that can greatly aid defense and detection;
 - Without deemphasizing prevention, focus on better and faster detection through a blend of people, processes, and technology.
 - Evaluate the threat landscape to prioritize a treatment strategy. Don't buy into a "one-size fits all" approach to security.
 - If you're a target of espionage, don't underestimate the tenacity of your adversary. Nor should you underestimate the intelligence and tools at your disposal.

Note: subset of all recommendations







Security Intelligence and the z/OS Platform

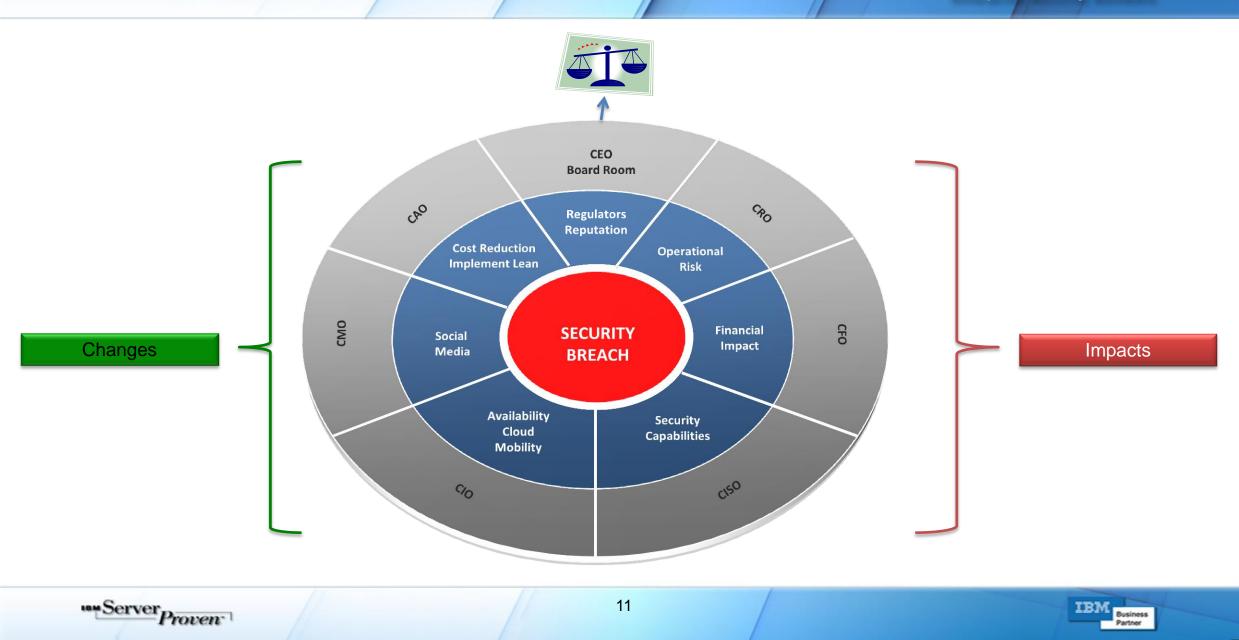
ENTERPRISE CHALLENGES

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Enterprise Challenges

VANGUARD Integrity Professionals Enterprise Security Software

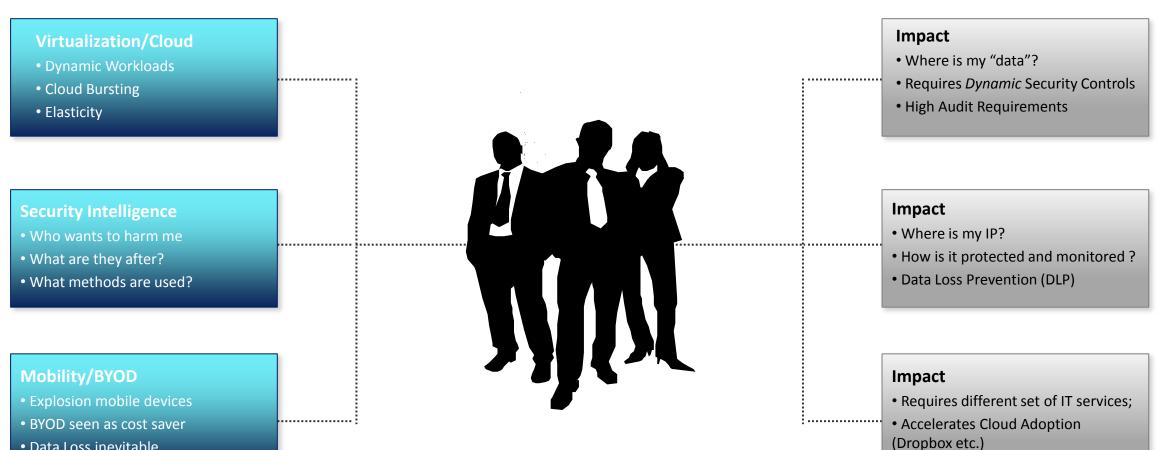


Security Challenges

VANGUARD Integrity Professionals **Enterprise Security Software**

TRN

Business



• Data Loss inevitable

IBM Serve

Proven⁻

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Security Operations versus Security Intelligence (1)



Business Partner





Security Operations versus Security Intelligence (2)





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INCLWOIKS	
Mainframes & Servers	
Databases	
Applications	1
	1
Users & Identities	
Cloud	
Mobile	

Notworke



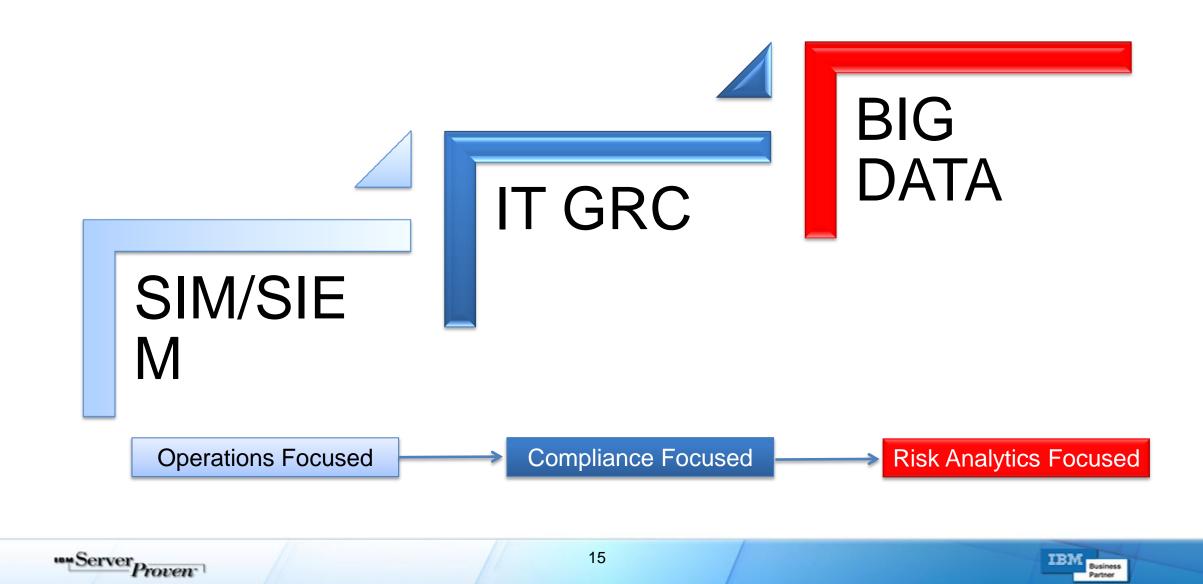
Security Intelligence:

- Contextual aware;
- Correlated and aggregated event;
- Isolate and understand attack behavior;



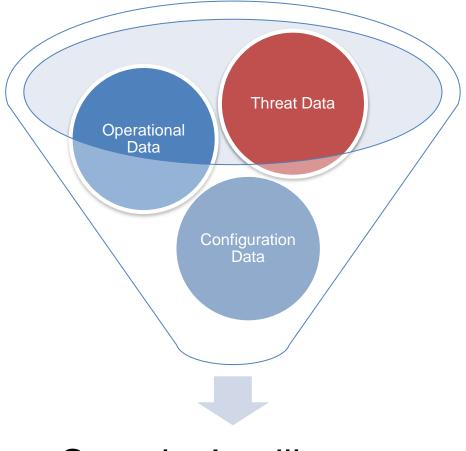
Security Operations versus Security Intelligence (3)





Security Intelligence





Security Intelligence







Framework and Maturity Model

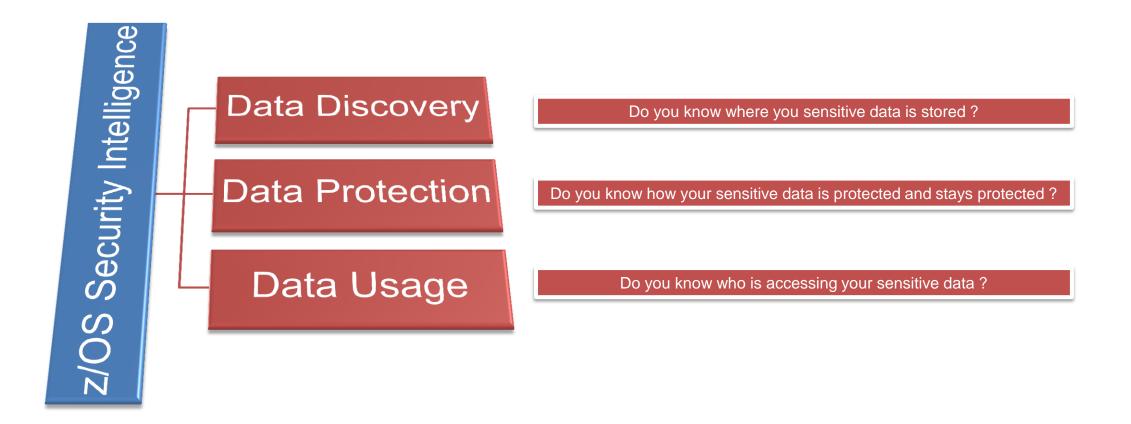
Z/OS SECURITY INTELLIGENCE

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Security Intelligence and z/OS – How do they fit together?

VANGUARD Integrity Professionals Enterprise Security Software



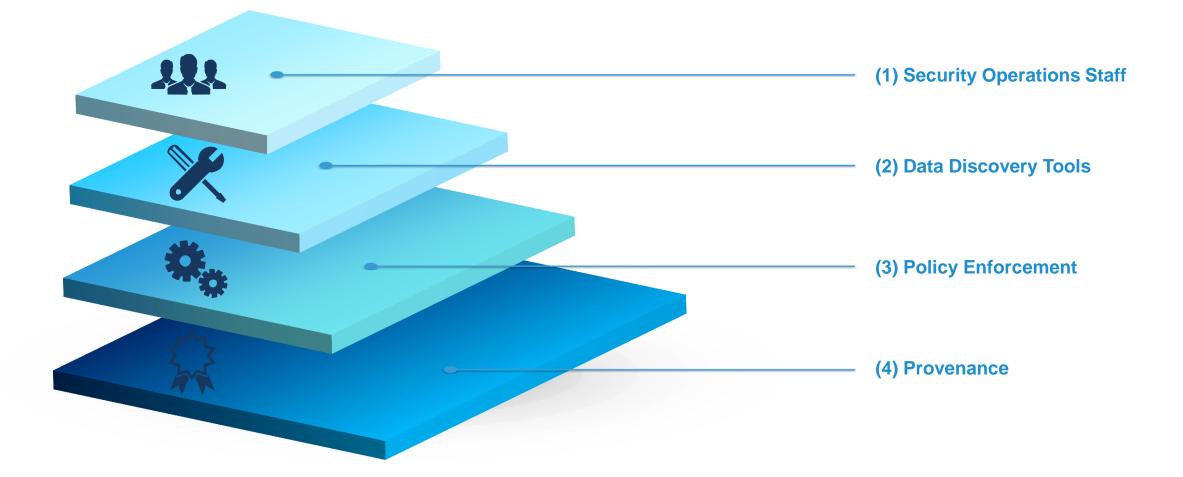






z/OS Security Intelligence Framework



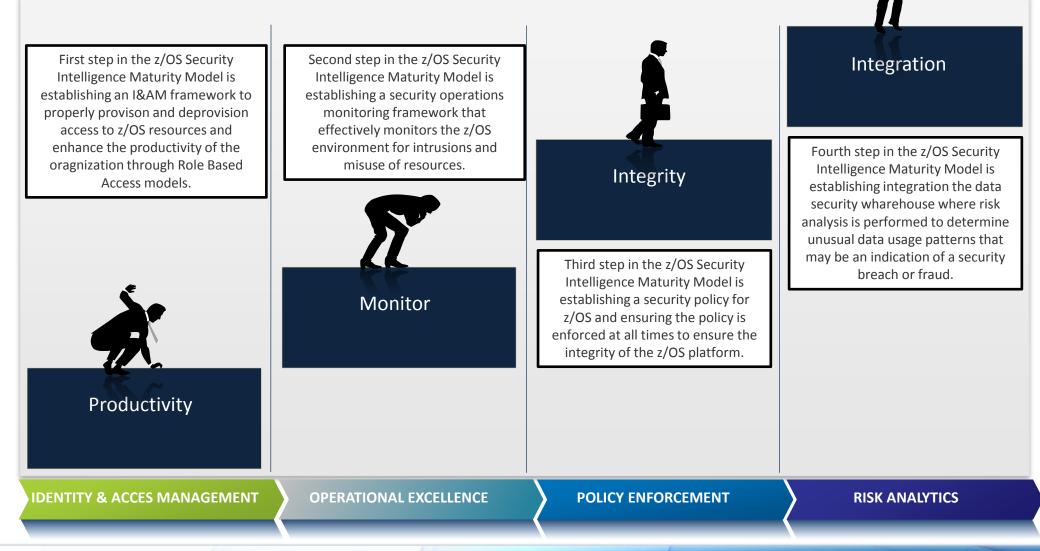






z/OS Security Intelligence Maturity Model

VANGUARD Int. ity Professionals Enter Security Software

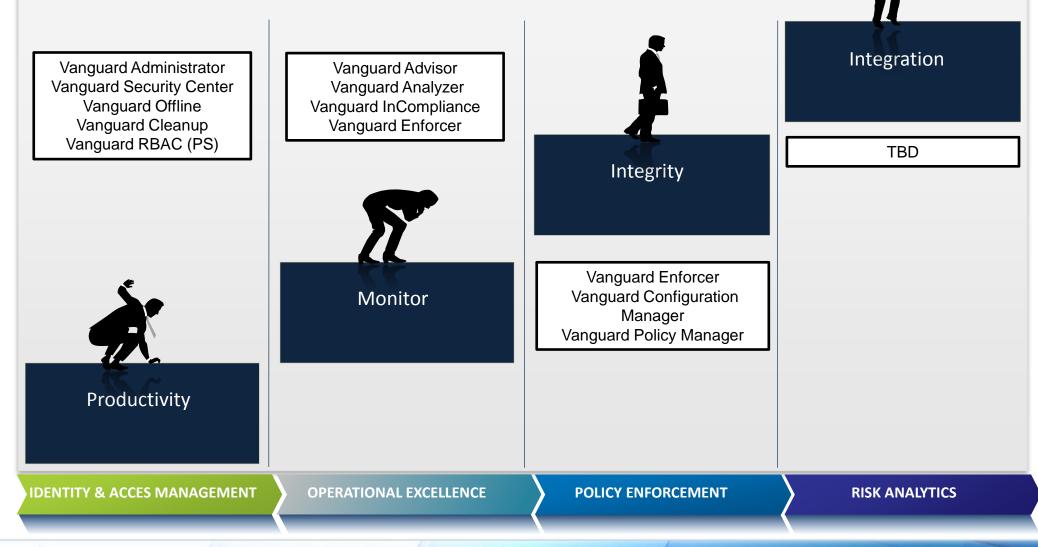


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IBM Business Partner

z/OS Security Intelligence Maturity Model versus Vanguard Solutions





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New attitude





LOLhome.com

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- The Mainframe is NOT an island > Integrate
- Understand where you data is (or was)
- Bad things happen to mainframes too !
- Understand the key (security) events on a mainframe
- Mobile will have major impact how data is accessed





Thank You Call us at 800-794-0014 or email us at info@go2vanguard.com

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e Color

