

Security Automation and the Cloud

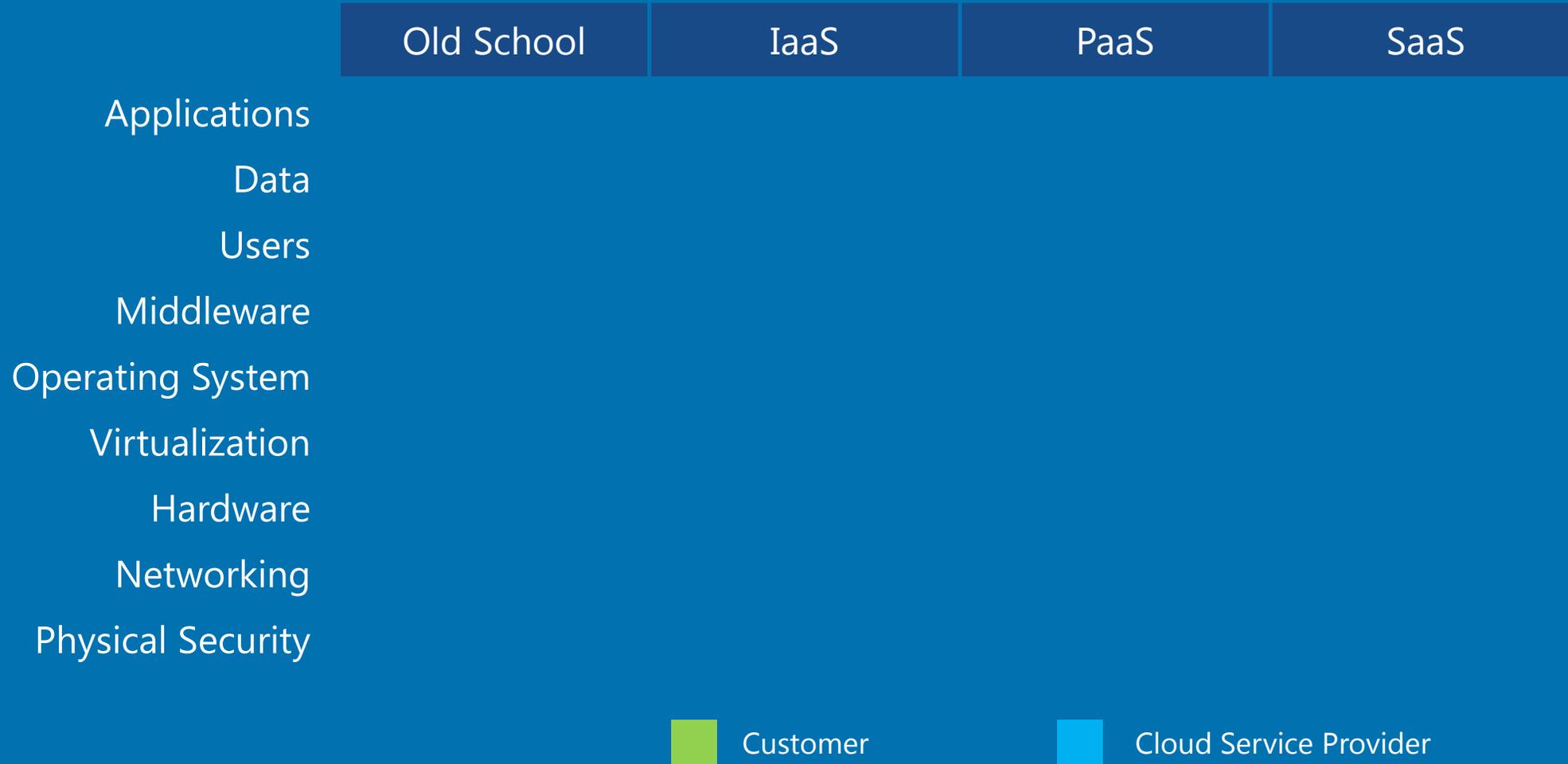
John Banghart

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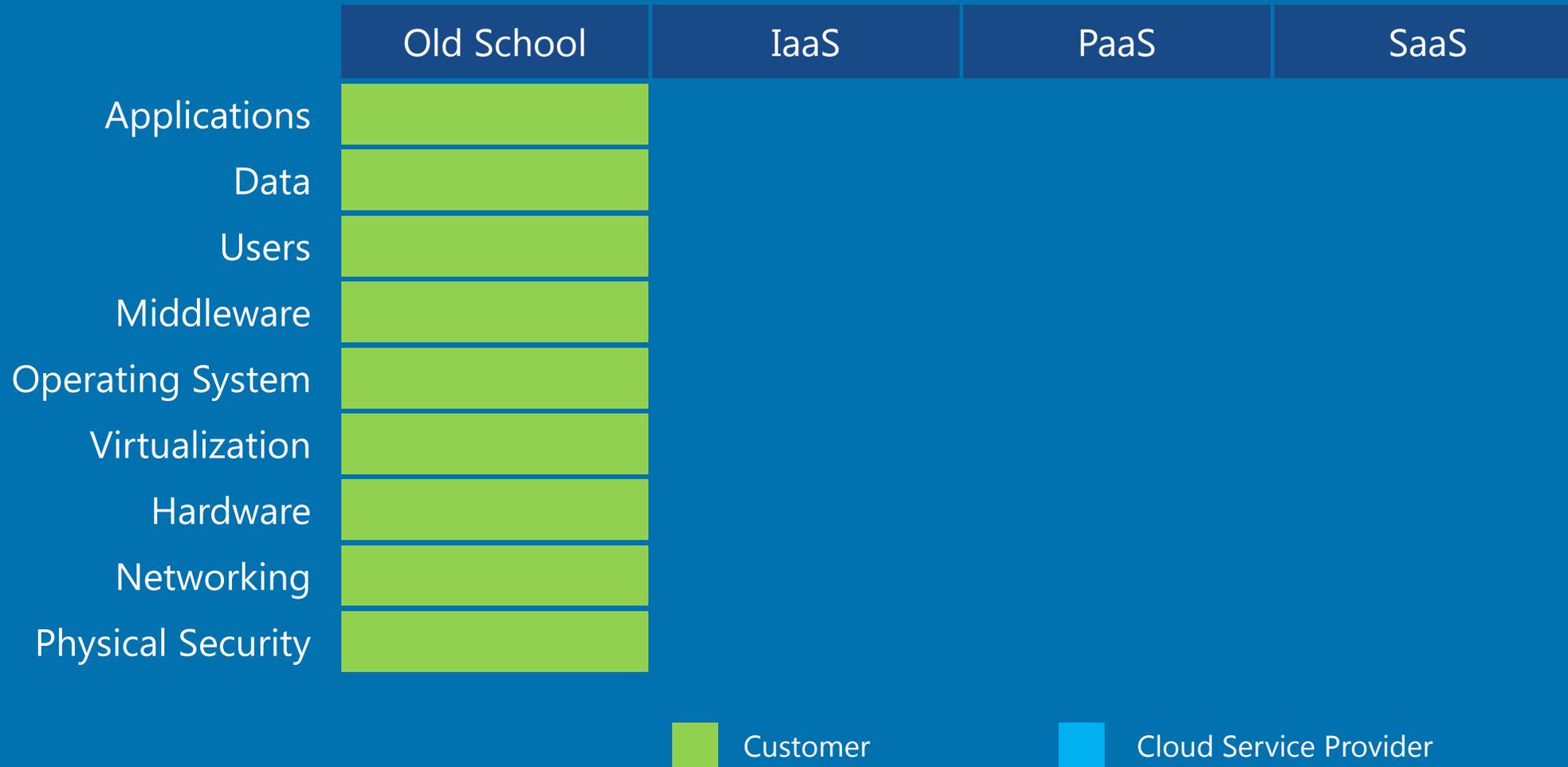
Azure Global Ecosystem

Microsoft

Shared Responsibility



Shared Responsibility



Shared Responsibility

	Old School	IaaS	PaaS	SaaS
Applications	Customer	Customer	Customer	Customer
Data	Customer	Customer	Customer	Customer
Users	Customer	Customer	Customer	Customer
Middleware	Customer	Customer	Customer	Customer
Operating System	Customer	Customer	Customer	Customer
Virtualization	Customer	Cloud Service Provider	Cloud Service Provider	Cloud Service Provider
Hardware	Customer	Cloud Service Provider	Cloud Service Provider	Cloud Service Provider
Networking	Customer	Cloud Service Provider	Cloud Service Provider	Cloud Service Provider
Physical Security	Customer	Cloud Service Provider	Cloud Service Provider	Cloud Service Provider

Legend: ■ Customer ■ Cloud Service Provider

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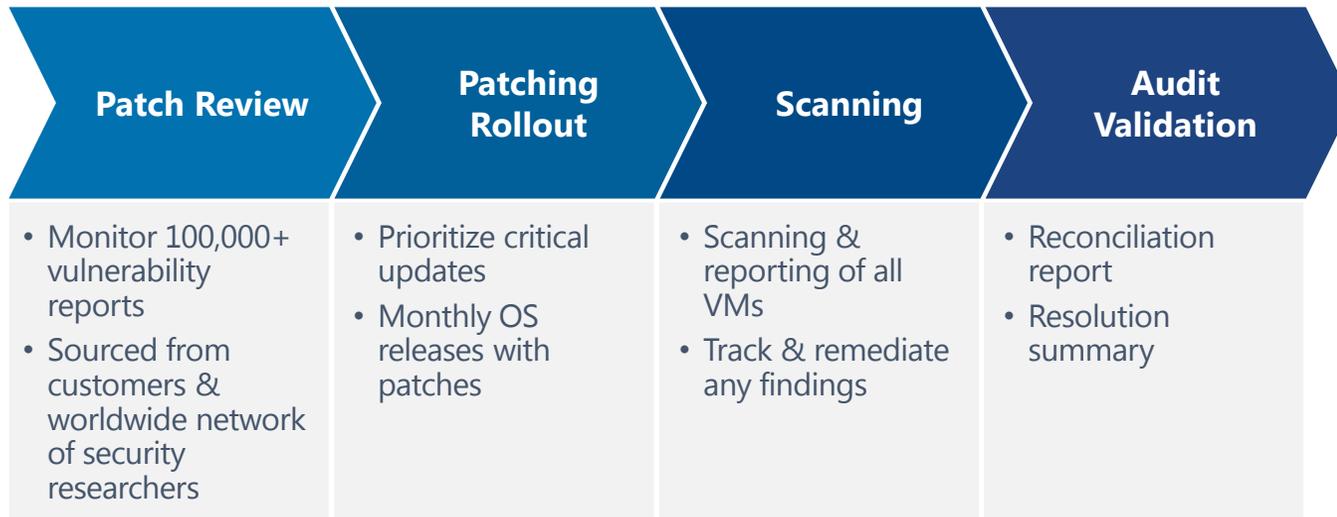
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Customer

Cloud Service Provider

Example: Patch management



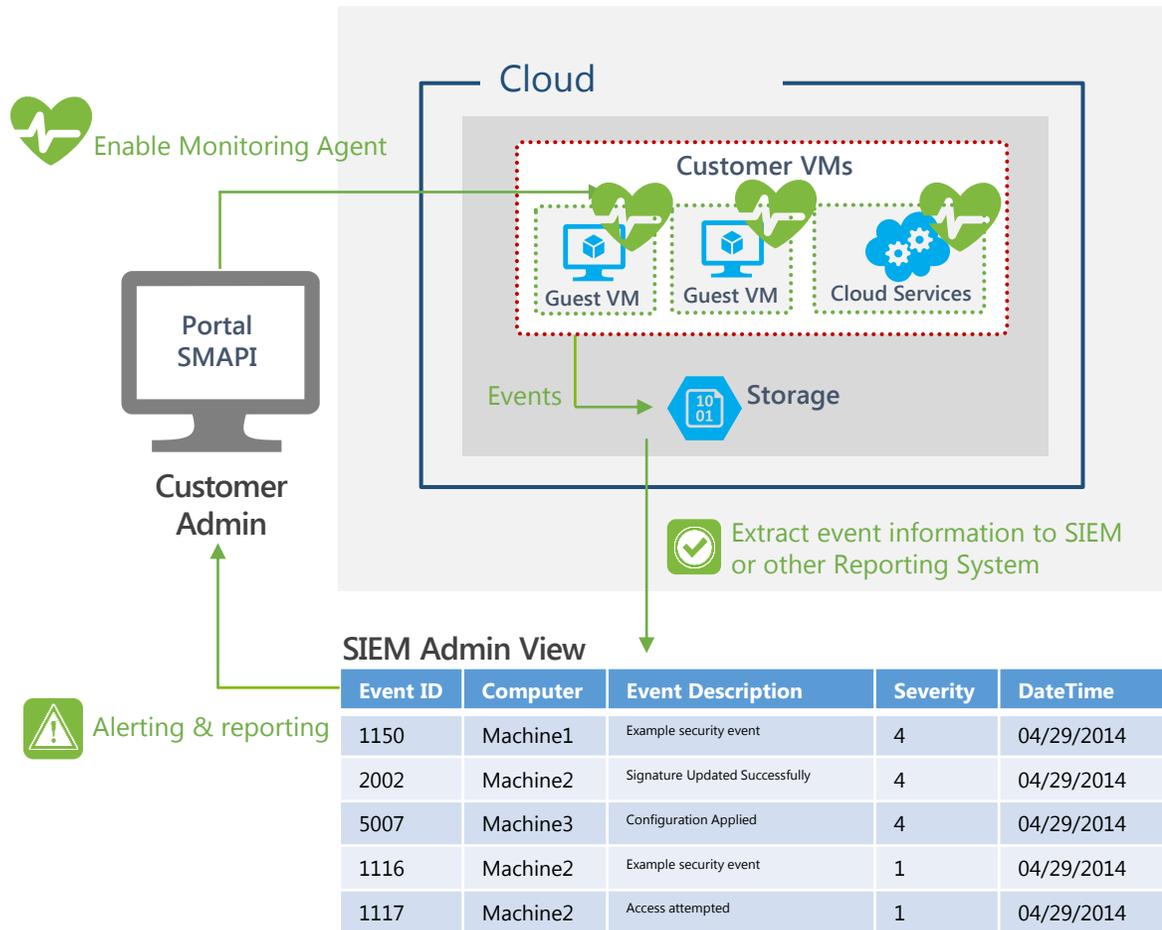
CSP:

- Applies regularly scheduled updates to the platform
- Releases critical patches immediately
- Rigorously reviews & tests all changes

CUSTOMER:

- Applies similar patch management strategies for their Virtual Machines

Example: Monitoring & logging



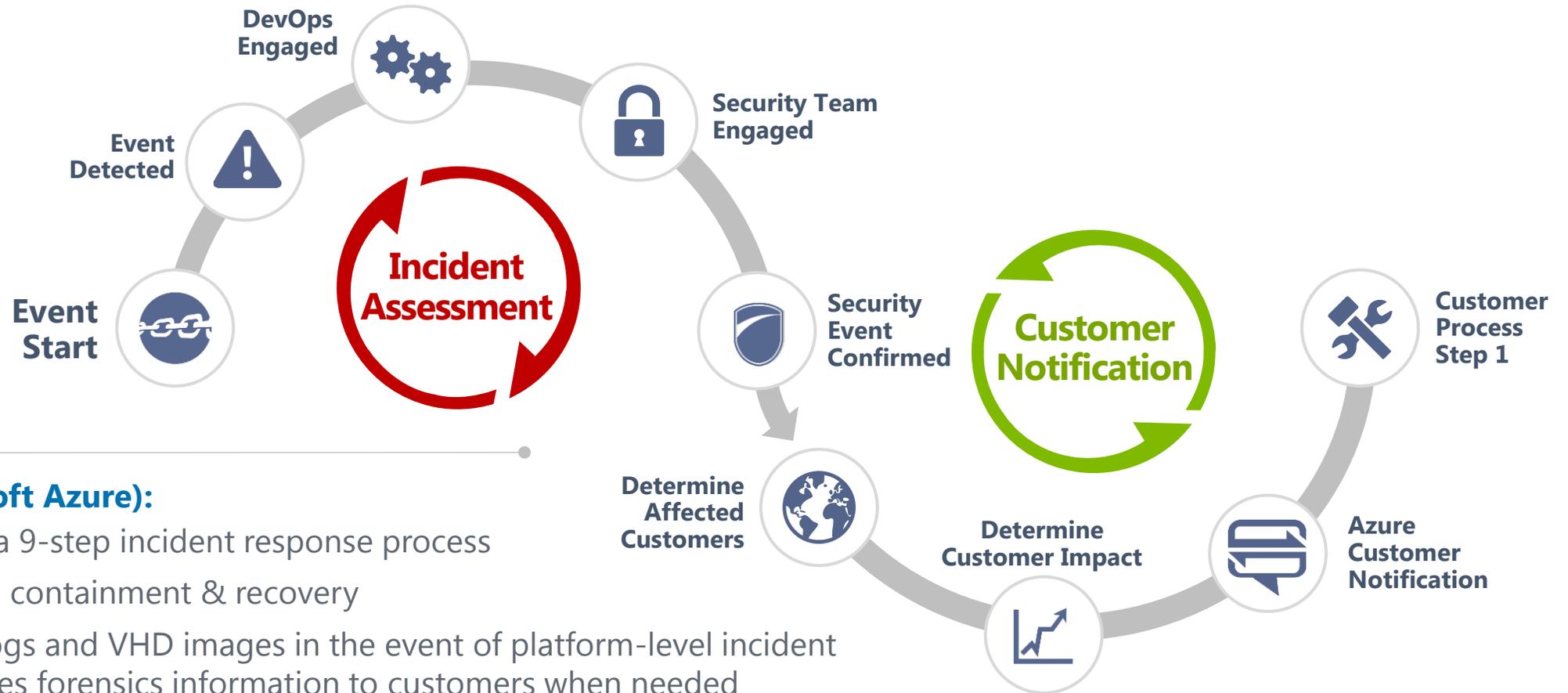
CSP:

- Performs monitoring & alerting on security events for the platform
- Enables security data collection

CUSTOMER:

- Configures monitoring
- Exports events for correlation and analysis
- Monitors alerts & reports
- Responds to alerts

Example: Incident response



CSP (Microsoft Azure):

- Leverages a 9-step incident response process
- Focuses on containment & recovery
- Analyzes logs and VHD images in the event of platform-level incident and provides forensics information to customers when needed
- Makes contractual commitments regarding customer notification

Thank You



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