

2018 IT Priorities: Cybersecurity, Cloud Outsourcing & Risk Management



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Today's Speakers



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Today's Agenda



- ➔ Introduction
- ➔ Cyber: Which cyber threats really matter and how can PE firms effectively defend against them?
- ➔ Cloud: From Public to Private to Hybrid, what are the key differences, pros and cons and use cases for each model?
- ➔ Risk Management: How can firms manage the new risks inherent with cyber threats and cloud outsourcing?
- ➔ Questions?

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Cyber: Moving Targets: Today's Threats

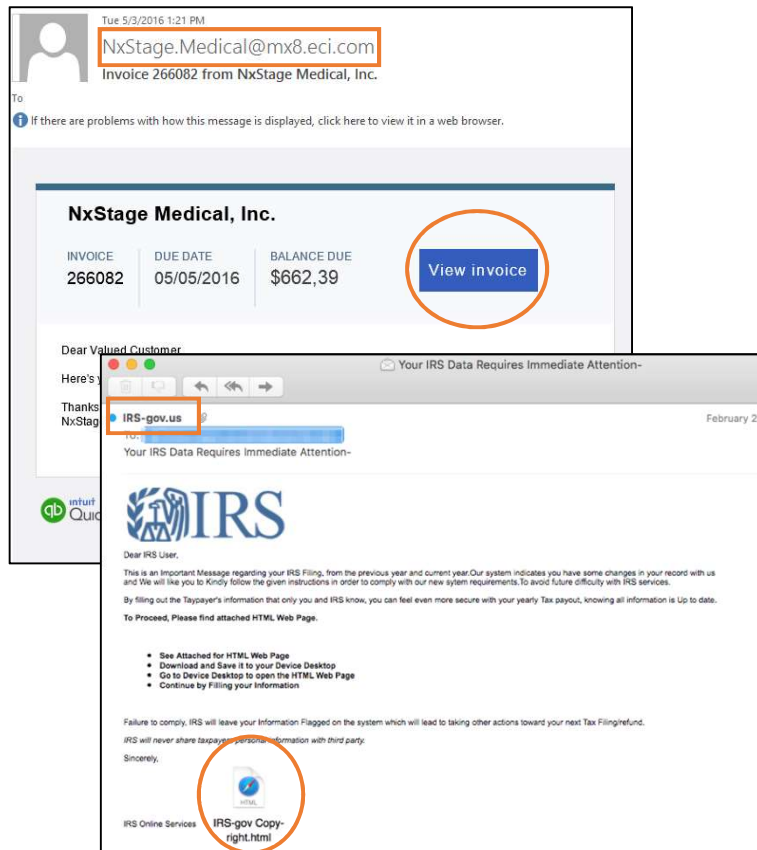


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Cyber: Phishing Scams to Watch for



- Social attacks utilized in 43% of all breaches
- Almost all phishing attacks that led to a breach were followed with some form of malware
- 66% of malware was installed via malicious email attachments
- 73% of breaches were financially motivated

Source: 2017 Verizon Data Breach Investigations Report

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Cyber: Governance, Oversight, Responsibility

Requirements can be from:

- Federal or international bodies or agencies
- State authorities
- Industry specific or even self-imposed by various groups or organizations



External pressures from:

- Investors
- Auditors
- External partners

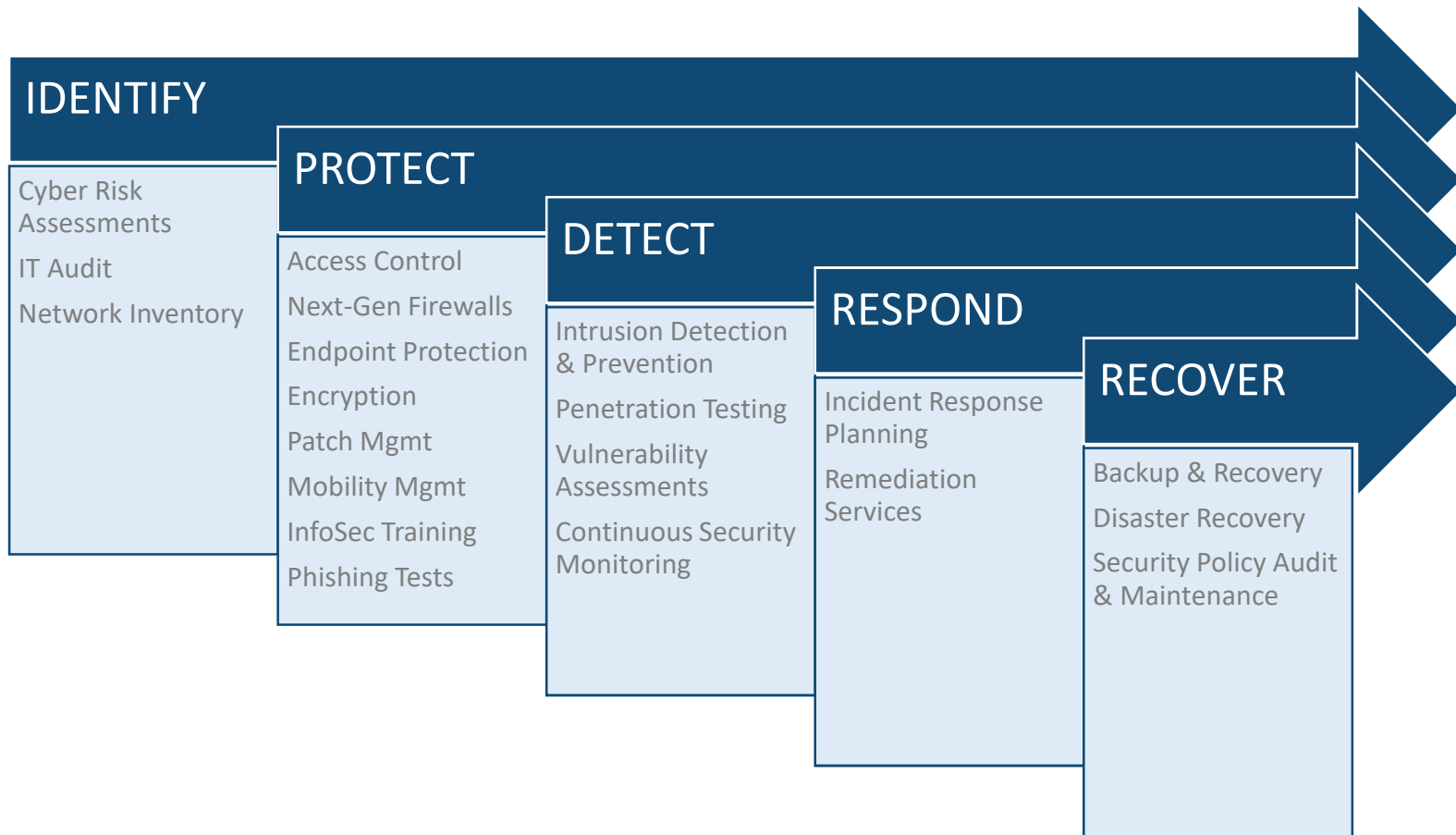


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Cyber: Defense in Depth: Security Layers



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Cyber: Evaluating Available Security Safeguards

Investment Firm	Firewalls Anti-Virus Patching	Email Security Network Access	Next-Gen Firewalls	Perimeter and Network Security
	Secure Remote Access	MDM Security	Multi-Factor Authentication	Access Control Measures
	Acceptable Use	WISP + BCP + Incident Response		Policies & Procedures
	Password Policy	Regular InfoSec Training	Phishing Simulation Tools	Employee/User Behavior
			IDS/IPS Storage Encryption Data Loss Prevention	Advanced Systems & Technologies

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Next Topic: Outsourcing to the Cloud

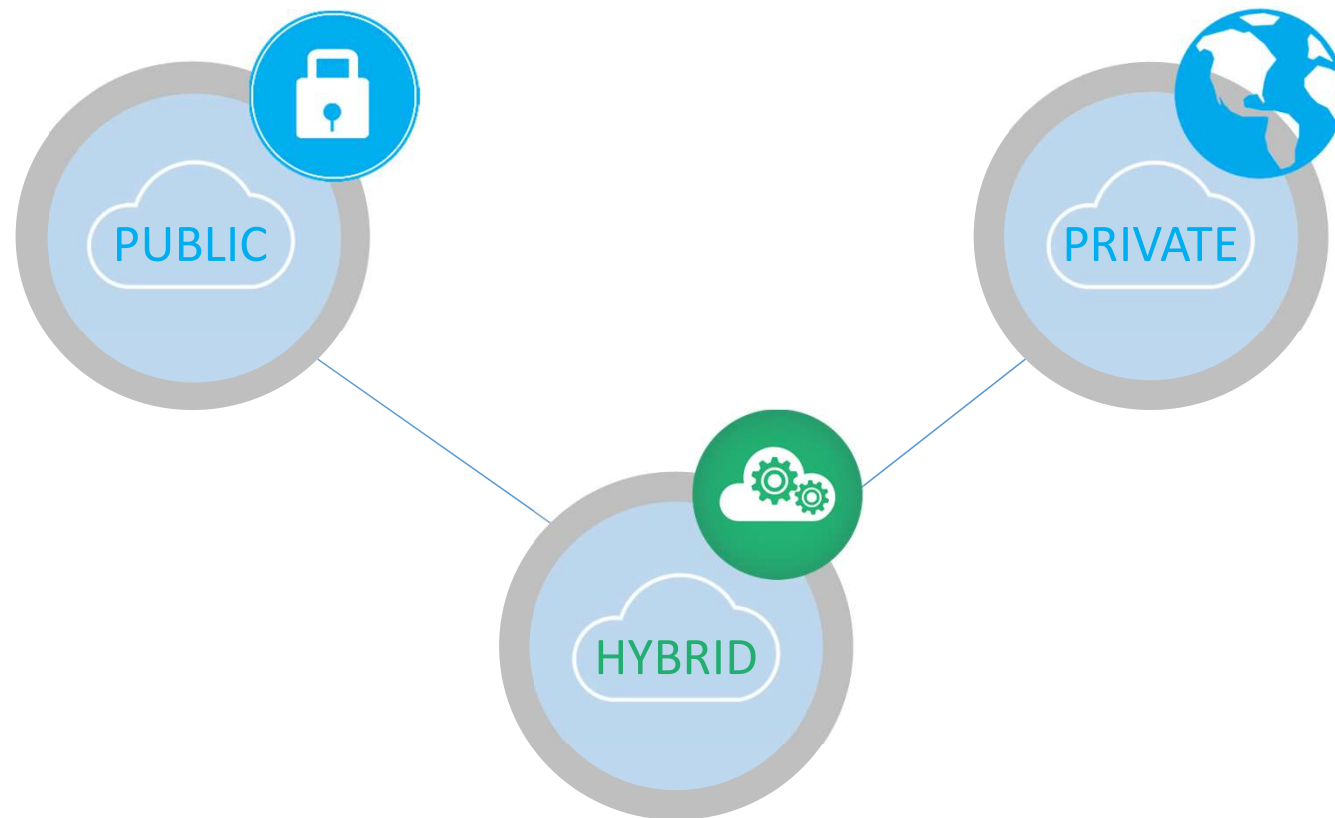
- Understanding Cloud Models
- The Right Time to Migrate/Switch
- Cloud Priorities: Guiding Cloud Selection Process

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Cloud: Hybrid Cloud Explained



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Cloud: The Right Time

Office Relocation

- Ideal time to review
- Don't invest in moving outdated technology
- Migrate to cloud prior to relocation

New Applications

- Easy to add new applications (in hours)
- Long-term planning no more
- Predictable cost structure

Technology Refresh

- Conduct a cost-feature comparison for on-prem refresh vs. cloud
- With cloud, transition process is simple

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Cloud: Service & Support

- Will you receive high-touch, one-on-one support?
- Does your provider understand your business/industry and specific requirements?
- Will your cloud provider be able to deploy on-site engineers to your office?
- Are you comfortable with the level of control your MSP will have over your environment?

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Cloud: Proximity & Location

- Do you require relative proximity to data centers to facilitate low latency execution, etc.?
- Where are your provider(s)' data center facilities located?
- What quality of service (QoS) requirements do you need for your network?

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Cloud: Security

- Is your firm a security-driven business?
- Does sensitive data/information travel to industry counterparties across private networks?
- Does your cloud provider offer advanced security tools such as multi-factor authentication, targeted attack protection and phishing tools?
- Are networks/cloud environments monitored 24x7x365 by security analysts and incidents remediated in real-time?

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Cloud: Application Hosting

Does your firm require industry-specific applications to conduct daily business?

- Portfolio Management or Fund Accounting
- Customer Relationship Management
- Deal Management

Does your firm utilize in-house or proprietary applications?

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Cloud: Cost Considerations

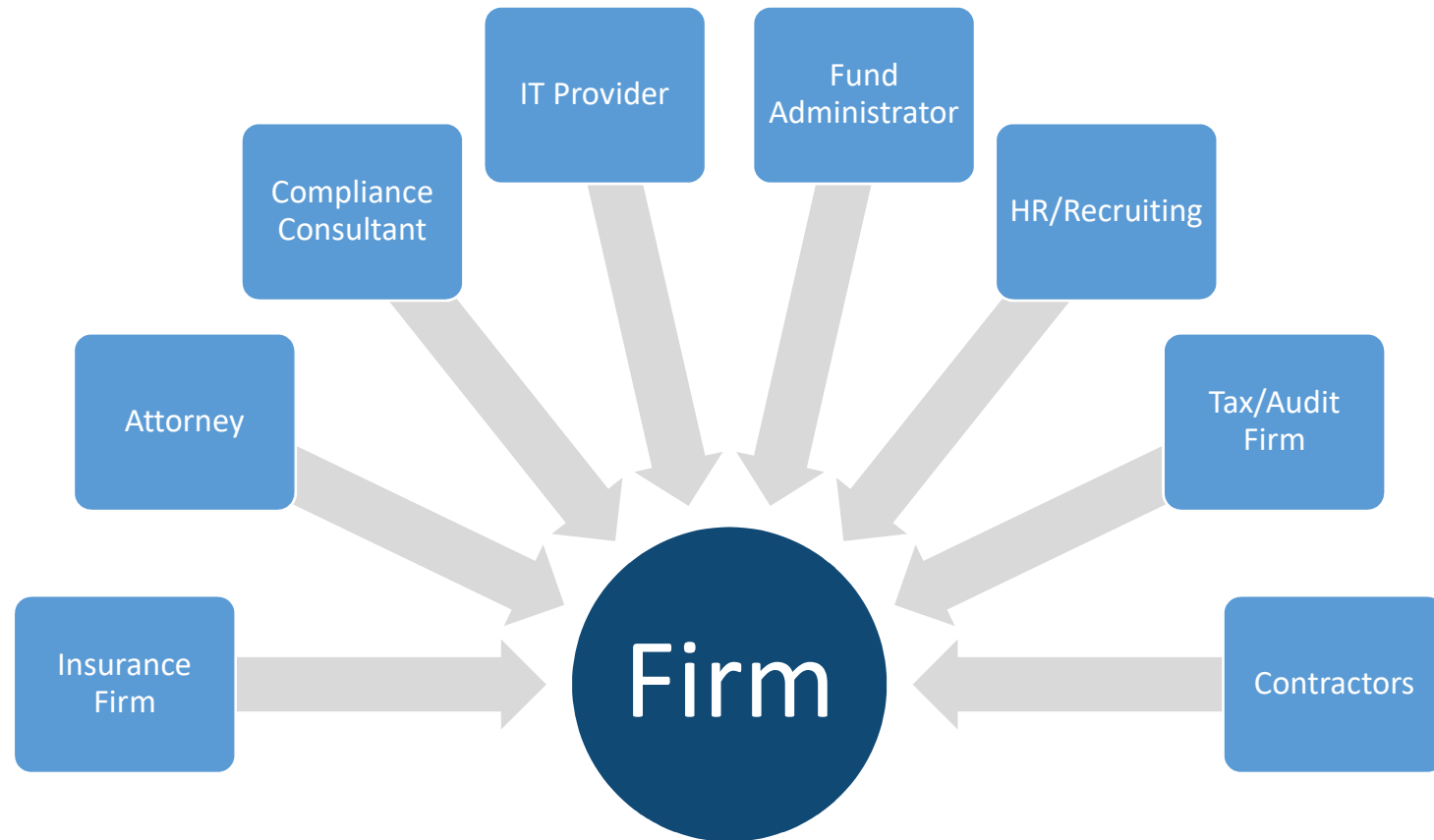
- Does your cloud provider's per user/per month fee include any/all of the following?
 - File storage
 - Security features (MFA, email security, etc.)
 - File auditing and access tools
 - Mobile device management capabilities
- Are support/maintenance costs included in the monthly fee?
- Are there varying levels of support to consider?

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Risk: Vendor Risk Management



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Risk: Internal Risk Management

Employee Training to reduce room for error:

- Annual training to review Policies and Procedures
- Review individual roles and responsibilities
- Review/Simulate incident management procedures
- Phishing/Social Engineering simulations
- Employee training

Crucial to have strong controls and safeguards in place

Regular InfoSec
Training



Phishing Simulation
Emails



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Questions?



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