ARMA of Northern New Jersey – ARMA-NNJ

• Programming for the RIM Professional
  • Live/Networking throughout NJ
  • Newark, Parsippany, Florham Park, Woodbridge, Bridgewater, Princeton
  • February CRM Certification
  • Drinker Biddle & Reath (Florham Park, NJ)
  • Professional Development Webex Programs
  • March 7th – Partnering with ARMA/NYC for the All-Day Educational Event in NYC

• Get Involved – Join ARMA- NNJ
  • Website (Award Winning!)
  • LinkedIn
  • Twitter
Cloud Computing 101
Cloud Computing is Not New - It’s Ubiquitous

- Web hosted email
  - AOL
  - Yahoo! Mail
  - Outlook.com
  - Gmail

- Rise of “Smartphones”

- Social media usage
  - Twitter
  - Facebook
  - LinkedIn

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Formal Cloud Computing Definition


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Simple Cloud Computing Definition

“a fancy way of saying stuff’s not on your computer.” *

Cloud Computing = Off-Premises Computing

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Cloud Computing = Data Centers

Learnings and Insights from More Than 1,000 Customer Data Center Tours
The “Big 3” of the Cloud

- Software as a Service (“SaaS”)
- Infrastructure as a Service (“IaaS”)
- Platform as a Service (“PaaS”)

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Cloud Benefits

- Cost savings
- Scalability
- Improves productivity
- Focuses on your core business
- Enhanced security

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Cloud Concerns

- Security
- Bigger target for hackers
- Hidden costs
- Migration of data
- “Locked In” to cloud provider
The Public Cloud Services Market Will Grow Rapidly To $236 Billion In 2020

2020 Sizing Forecast Shows Strong Growth, But With Signs Of Maturity On The Horizon

September 1, 2016
Crowded Cloud Provider Market

- Traditional IT providers
- “Born in the Cloud” IT providers
- Small & newer IT providers
- Providers from other markets
"It was the best of times, it was the worst of times......"
DATA BREACH!
ONLINE PRIVACY

VS

NATIONAL SECURITY
Outdated Laws
Goal: Find a Trusted Cloud Provider

Companies will only use technology they trust

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Assemble & Engage Your Team
Inspiring Trust in the Cloud

Security
Committed to the protection of your data in cloud services

Privacy & Control
Maintain privacy and control of your data when using cloud services

Comply
Meet your compliance needs when using cloud services

Transparency
Understand what happens with your data in cloud services
Security

- Technical & operational
- Physical security
- Threat management teams
- Strong data encryption
- Fighting cybercrime
Privacy & Control

- Data processing terms & EU Model Clauses
- Privacy regulator validation
- Positive history with regulators
- Options: Cloud AND On-Premises
- Customer owns its data
- Limited usage by cloud provider
- Third party requests for data wording
- Sues others to protect your data
- Seeks to modernize data laws

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## Comply

### Industry Standards
- ISO 27001
- SOC 1 Type 2
- SOC 2 Type 2
- PCI DSS Level 1
- Cloud Controls Matrix
- ISO 27018
- Content Delivery and Security Association
- Shared Assessments

### United States Standards
- FedRAMP
- HIPAA / HITECH
- FIPS 140-2
- 21 CFR Part 11
- FERPA
- DISA Level 2
- CJIS
- IRS 1075
- ITAR-ready
- Section 508 VPAT

### Regional Standards
- EU – U.S. Privacy Shield
- European Union Model Clauses
- United Kingdom G-Cloud
- China Multi Layer Protection Scheme
- China GB 18030
- China CCCPFF
- Singapore MTCS Level 3
- Australian Signals Directorate
- New Zealand GCIO
- Japan Financial Services
- ENISA IAF

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Transparency

- Websites displaying transparency
- Law enforcement requests reports
- Data location specificity
- Identity of subcontractors
- Easy access to audit reports
- Data center tours
- Clear cloud contract provisions
- No contract changes for contract term
#1: Data ownership & usage
#2: Data protection agreement
#3: Meaningful SLAs
#4: Third party access to data
#5: Limitation of liability
#6: Security incident notification
#7: Independent verification
#8: Subcontractor responsibility
#9: Terms of use/service changes
#10: Comply with applicable laws
Contract Management
Resources

International Association of Privacy Professionals (IAPP)
http://privacyassociation.org

Cloud Security Alliance (CSA)
http://cloudsecurityalliance.org

International Organization for Standardization (ISO)
http://www.iso.org

Electronic Frontier Foundation (EFF)
http://www.eff.org

Microsoft Trust Center
https://www.microsoft.com/en-us/TrustCenter

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