



AUDIT AND SECURITY FOR CLOUD-BASED SERVICES

Presented by the North Texas Chapter of ISACA

Dates: Wednesday, February 27 thru Thursday, February 28, 2013

Time: 8:30 AM – 4:30 PM

Location: GM Financial
4000 Embarcadero Drive
Arlington, TX 76014

Cost: **\$550** Members and Non-Members
(*Training materials, lunch, snacks and beverages are provided*)

Presentation Method: Group-Live

Category: Specialized Knowledge & Applications

Recommended CPE Credits: 16.0

Program Level: Basic

Prerequisites or Advance Preparation: None

Time: Wednesday thru Thursday 8:30 AM – 4:30 PM

Register at www.isaca-northtexas.org

Online registration closes on Friday, February 22, 2013 at 5:00 PM.

No walk-ins. Prepay by Credit Card, PayPal or Check Only.

Class size is limited to the first 50 registrants.

For any information regarding refunds, complaints, and program cancellation policies, visit

www.isaca-northtexas.org/SitePages/ProgramPolicies.aspx.

INSTRUCTOR

STAN FROMHOLD, CISSP, CISA

Stan Fromhold is a Pursuit Lead for HP's Enterprise Security Services. In his role he provides security solutions to some of HP's largest multinational clients. Prior to HP, Mr. Fromhold was a Security Solutions Architect for British Telecom's security practice, where he was responsible for the design and bid of major customer security and governance programs. Mr. Fromhold has worked in information security for more than 25 years, specializing in enterprise security architecture solutions for converged networks, vulnerability assessments, security education, and security compliance audits. He has significant experience in helping organizations define and implement security architectures and policies for vulnerability and threat management, enterprise security event monitoring, and intrusion detection and prevention architectures. In addition, Mr. Fromhold is a much in-demand speaker at major security conferences.

PROGRAM DESCRIPTION

Offering Internet-based computing and on-demand resources, software, and data, cloud-based services are rapidly changing the landscape of IT. With Software as a Service (SaaS) delivering application software, Platform as a Service (PaaS) available to design and develop software, and Infrastructure as a Service (IaaS) providing the equipment upon which to support other services, cloud computing offers IT a way to increase capacity and capabilities minus a huge investment.



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LEARNING OBJECTIVES

In this two-day seminar you will explore the current state of cloud computing and its common architecture, and examine the major SaaS, PaaS, and IaaS providers in the market today. You will cover the security and control deficiencies that exist in cloud-based services and look at Security as a Service as a way to protect against them. You will review a risk-based approach to audit and controls for cloud based-services and investigate such areas as cloud-based network models, cloud brokers, and disaster recovery and governance in a cloud-services environment. Throughout the seminar, class exercises will reinforce what you learn and help you identify the risks, controls, and gaps in cloud services.

OUTLINE

1. Cloud-Based Computing: An Architectural Overview <ul style="list-style-type: none"> - application architectures - the SPI Cloud Computing Model - key drivers for moving towards cloud-based services 	7. Security as a Service <ul style="list-style-type: none"> - identity management as a service - security event monitoring/IDS as a service - vulnerability management as a service - data leakage prevention as a service/Web filtering, e-mail filtering
2. Software as a Service (SaaS) <ul style="list-style-type: none"> - key enterprise applications - the SaaS transaction model(s) - SaaS security and audit concerns 	8. Cloud-Based Security Standards and Dependencies <ul style="list-style-type: none"> - directories and identity management - federated identities - emerging security Standards: SPML, XACML, OAuth, OpenID, others
3. Platform as a Service (PaaS) <ul style="list-style-type: none"> - major development providers/platforms - PaaS security and audit concerns 	9. Governance in a Cloud Services Environment <ul style="list-style-type: none"> - key performance indicators - audit trails for cloud-based services - service level agreements, licensing - legal complexities: data privacy, globalization, trans-border constraints - third-party assessments and certifications: SAS70, ISO 27001
4. Infrastructure as a Service (IaaS) <ul style="list-style-type: none"> - host security in the cloud - network security in the cloud - data storage/SAN in a cloud IaaS environment - cloud bursting - virtualization models for cloud-based services: Hypervisor VM and inter VM isolation - cloud-based security domains: virtualized security/firewalls - IaaS security and audit concerns 	10. Disaster Recovery in a Cloud-Based Environment <ul style="list-style-type: none"> - SPI HA architectures - virtualized environments and their impact on disaster recovery - updating and testing disaster recovery plans
5. Cloud-Based Network Models <ul style="list-style-type: none"> - private cloud architectures - hybrid architectures - public architectures - de-perimeterization of networks: secure access from any device, anywhere 	11. Cloud Security and Audit <ul style="list-style-type: none"> - key risks and audit concerns - identifying key controls and mitigations - cloud-based risk analysis models: ENISA, NIST, CSA - security best-practices models for cloud-based services - audit techniques and tests in a cloud-based environment
6. Brokered Cloud Services <ul style="list-style-type: none"> - cloud aggregators - cloud brokers - cloud management service portals 	



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