**Cloud Security Fundamentals**



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**Course Objective**

* Build a risk-based assessment program for cloud providers’ controls
* Understand the key areas to focus on in cloud contracts
* Evaluate the various layers of cloud infrastructure
* Develop a cloud disaster recovery and business continuity plan
* Perform vulnerability assessments in a cloud environment
* Integrate encryption and identity management services in a cloud environment
* Improve your incident response and monitoring capabilities in the cloud

**Target Audience**

* Security personnel who are currently tasked with assessing the technical risks of cloud computing
* Network and systems administrators who currently manage private clouds or need to leverage hybrid and/or public cloud services
* Technical auditors and consultants who need to gain a deeper understanding of cloud computing and security concerns
* Security and IT managers who need to understand the risks of cloud computing and advise business management of the risks and various approaches involved

**Course Outline**

* **Day 1 – Introduction to Cloud Computing**
* Delivery models: Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS)
* Cloud types (public, private, hybrid)
* Explaining the Jericho Cloud Cube Model
* **Day 2 – Security Challenges in the Cloud**
* Introduction to the topic: Why is this hard?
* Virtualization and multi-tenancy
* Risk assessment for cloud migration
* **Day 3 – Infrastructure Security in the Cloud**
* Patch and configuration management
* Change management
* Network and virtualization security
* Application security for SaaS, PaaS, and IaaS
* **Day 4 – Policy and Governance for Cloud Computing**
* Internal policy needs
* Contract requirements for security
* Service-level agreements
* Governance models for the cloud
* **Day 5 – Compliance and Legal Considerations**
* Compliance challenges for the cloud
* Legal and geographic jurisdiction
* Privacy concerns
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1. Scientific article on flash memory.
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