Cloud Computing Security Assessment
Secure Your Cloud!

BENEFITS
Foundstone Professional Services will assist your organization as you make transition to cloud based services by helping you avoid the unforeseen security pitfalls. Foundstone consultants will help design, implement and assess a cloud solution that meets the security requirements of your organization.

SCOPE
The duration of this engagement depends on the size and nature of your cloud computing efforts and project scope.

DELIVERABLES
Our deliverables include:
- Next-step recommendations
- Half-day Cloud Computing Assessment presentation and results review workshop
- Foundstone offers a letter of attestation for external use to your clients or business partners
All Foundstone projects are managed using Foundstone’s proven Security Engagement Process (SEP) for project management. A pivotal aspect of this process is continual communication with your organization to ensure the success of your Foundstone consulting engagements.

Cloud computing offers several key advantages to organizations. These include reduced costs, automation, hardware independence, high availability and increased flexibility. Use of cloud technology also alters the risk landscape in areas such as confidentiality, privacy, integrity, regulatory compliance, availability and e-discovery. Therefore, it is important to ensure that proper security assurances are in place.

Approach
Foundstone approaches this assessment from two different standpoints:
- Your company is currently or planning to outsource your services/product by hosting your solution in the cloud
- Your company is a hosting company or your company host your own product or solution
If you are option one, then Foundstone will assess your solution as it is implemented in the new cloud infrastructure to verify it is implemented to the highest level of security.
If your company is option two, then Foundstone will assess your implementation from physical security to application security. Foundstone will provide a letter of attestation that can be disseminated to your new and current clients providing a comfort level that the cloud solution is secure.

Methodology
Foundstone’s Cloud Computing Assessment covers all the major cloud computing architectures. These include
- Infrastructure as a Service (IaaS)
- Platform as a Service (PaaS)
- Software as a Service (SaaS)

Foundstone Professional Services consultants will create a custom methodology tailored to your unique needs, based on our overall approach detailed below:

Architecture and Design Assessment
In the Architecture and Design Assessment phase of the assessment, Foundstone consultants assess:
- Network Topology
- Key Assets
- Data Storage and Operation
- Input and Output End Points in System
- Trust Boundaries
- Access Controls
- System and Network Isolation
- Administrative Controls for Cloud Vendor
- Administrative Controls for Business Owner

Cloud Infrastructure Security Assessment
In the Cloud Infrastructure Security Assessment, Foundstone consultants assess the logical network, applications, and services hosted by the Cloud.
The key services in the assessment may include the following:
- Internal and External Penetration Assessment
- Application or Product Penetration Assessment
- Host Security Configuration Assessment
- Firewall Security Assessment
- VPN/Remote Access Security Assessment
- Physical Security Assessment
- Attack and Penetration
- Information Retrieval
- Pillage and Cleanup
Governance, Policies and Procedures Review
The policies, procedures and regulations followed by the Cloud vendor may not be consistent with the requirements and expectations of your organization. Hence, the vendor’s policies and procedures are compared against industry best practices and regulatory compliance requirements that are specific to your organization. Based on the results, policies, procedures and service legal agreements can be developed to bridge the gaps identified. The areas covered as part of this review include:

- Legal Contract and SLA Review
- e-Discovery and Information Management
- Information / Data Lifecycle Management
- Compliance and Audit
- Business Continuity and Disaster Recovery Management
- Information Integrity and Confidentiality Assurance
- Operation, Administration and Access Management Procedures
- Incident Response Management and Forensics