MGT520: **Leading Cloud Security Design and Implementation**

2 Day Course	12 CPEs	Laptop Required

You Will Be Able To

- Define a strategy for securing a workload in the cloud for medium-size and large enterprises that can support their business objectives
- Establish a security roadmap based on the security strategy that can support a fast-paced cloud adoption and migration path while maintaining a high degree of security assurance
- Understand the security basics of the cloud environment across different types of service offerings, then explain and justify to other stakeholders the decisions within the security roadmap
- Build an effective plan to mature a cloud security posture over time, leveraging security capabilities offered by cloud providers to leapfrog in security capabilities
- Explain the security vision of the organization in the cloud domain to your Board Directors and executives, collaborate with your peers, and engage your workforce, driving the security culture change required for the cloud transformation

Who Should Attend

The primary target audience for this course is managers and directors who are in a position to lead or make key decisions on the IT transformation to cloud environments.

Cloud adoption is popular across all types of industry, and many organizations are taking strategic advantage of the cost and speed benefits of transitioning to the cloud. Organizations are migrating mission-critical workloads and sensitive data to private and public cloud solutions. However, while the cloud environment may appear similar to running a traditional IT environment on the premises, the cloud solutions protection requirements are in fact very different because the traditional network perimeter is no longer the best line of defense and the threat vectors are not the same. Effective defense of the organization's cloud environment requires significant planning and governance by a well-informed management team.

The SANS MGT520: Leading Cloud Security Design and Implementation course focuses on what managers, directors, and security leaders need to know to develop their cloud security roadmap and manage the implementation of cloud security capabilities, as well as how to operate the cloud environment post-transition. Making the right security decisions when adopting the cloud requires understanding the technology, process, and people related to the cloud environment. This complements traditional IT management techniques that managers are accustomed to and helps with making the appropriate informed decisions.

We will walk through the key aspects of managing cloud transition and ensuring security in the continuous operations post-migration that are common across organizations on the same journey. We will cover the key objectives of security controls in the cloud environment, including planning, deploying, and running the environment from the starting point to a progressively more mature state. There will be a focus on locking down the environment, securing the data, maintaining compliance, enhancing security visibility to the operations, and managing the security response on a continuous basis. Students will learn the essentials to lead the security effort for the cloud transition journey.

Section Descriptions

SECTION 1: Security Program Design and Cloud Security Fundamentals

Section 1 aims to help management professionals develop a migration roadmap to the cloud environment. The goal of the roadmap is to support the business transformation to realize the benefits from the cloud, while maintaining the security of the environment, applications, and data. We will arm you with information on various approaches to migratory and preparatory steps to get you ready for a secure migration journey. We'll then pivot to cloud environment details to help you understand the security targets and maturity journey for the main types of public cloud services offerings. The material will help you advise and lead the security transformation program with the right amount of technical understanding and knowledge on the best practices in the various types of cloud offerings.

TOPICS: Building The Roadmap; Managing The Transition To Cloud; Securing IaaS; Identity Access Management; Securing PaaS

SECTION 2: Cloud Security Features: Adoption and Maturing the Security Program

Section 2 will start by examining how to effectively protect the SaaS cloud and associated data. Once we have covered the locking down of cloud offerings in varying forms, we'll move towards the advanced technologies, services, and configurations that make the environment more secure than most in-house IT environments. The scale and technology investments of the cloud providers allow them to provide turn-key security capabilities for their customers that are relatively easy to adopt. We will walk through the opportunities offered and the strategies to adopt them in an enterprise context. Cloud adoption is a long-term process. We will arm you with the information to drive the changes required by measuring the cloud security posture and using metrics to aid in making the right decisions.

TOPICS: Securing SaaS Environments; Cloud Threats and the Adoption of Security Features; Cloud Security Assurance and Assessment; Maturing the Cloud Security Program