

## **Cloud Security Essentials**

### **Cloud Computing and Identification of Role of Cloud ?**

- Definition
- SPI Framework
- Software Model
- Cloud Services Delivery Model
- Deployment Models of Cloud
- Impact of Cloud Computing on Users
- Governance in the Cloud

### **Importance of Infrastructure Security**

- Network Level and Threat Assessment
- Host Level and Threat Assessment
- Application Level Threat Assessment

### **Data Security and Storage**

- Importance of Data Security
- Mitigation Techniques of Data Security
- Provider Data and Its Security

### **Access and Identity Management**

- Trust Boundaries and IAM
- Why IAM?
- IAM Challenges
- IAM Definitions
- Cloud Authorization Management

### **Analysis of Standards for Cloud Security and Risk**

- Security Management Standards
- Security Management in the Cloud
- Availability Management
- SaaS Availability Management
- PaaS Availability Management
- IaaS Availability Management
- Access Control
- Security Vulnerability, Patch, and Configuration Management

### **Privacy Issues Related to Cloud Computing**

- Privacy Issues Related to Cloud Computing
- What Are the Key Privacy Concerns in the Cloud?
- Who Is Responsible for Protecting Privacy?
- Changes to Privacy Risk Management and Compliance in Relation to Cloud Computing
- Legal and Regulatory Implications
- International Laws and Regulations

## **Policy Compliance and Issues**

- Internal Policy Compliance
- Governance, Risk, and Compliance (GRC)
- Illustrative Control Objectives for Cloud Computing
- Incremental CSP-Specific Control Objectives
- Additional Key Management Control Objectives
- Control Considerations for CSP Users
- Regulatory/External Compliance
- Other Requirements
- Cloud Security Alliance
- Auditing the Cloud for Compliance

## **Popular Cloud Services**

- Amazon Web Services (IaaS)
- Google (SaaS, PaaS)
- Microsoft Azure Services Platform (PaaS)
- Proofpoint (SaaS, IaaS)
- RightScale (IaaS)
- Salesforce.com (SaaS, PaaS)
- Sun Open Cloud Platform
- Workday (SaaS)

## **Cloud Services Security**

- Origins
- Today's Offerings

## **IT Industry and Cloud**

- Why Cloud Computing Will Be Popular with Business Units
- Potential Threats of Using CSPs
- A Case Study Illustrating Potential Changes in the IT Profession

## **Caused by Cloud Computing**

- Governance Factors to Consider When Using Cloud Computing

## **Future of The Cloud Security**

- Analyst Predictions
- Survey Says?
- Security in Cloud Computing
- Program Guidance for CSP Customers
- The Future of Security in Cloud Computing