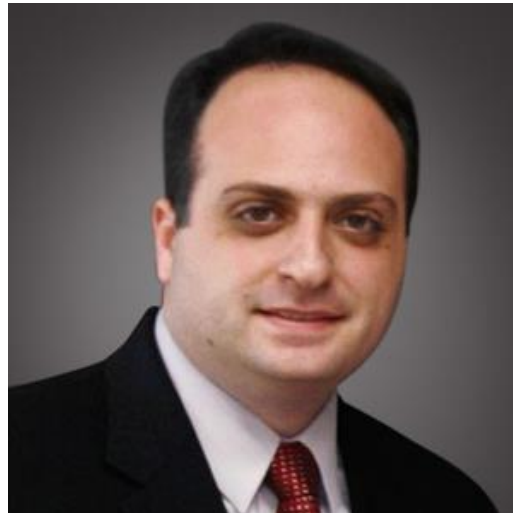# Understanding AWS Security Measures

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Physical Access

Secret locations

Controlled physical access

Best in class datacenter security

Video surveillance

Servers and Network Infrastructure

Hardware refresh cycle to avoid component failure

Properly decommissioned storage

Always on monitoring system

Security Certifications and Compliance

AWS	
HIPAA	FIPS 140-2
SOC 1/SSAE 16/ISAE 3402	CSA
SOC 2	MPAA
SOC 3	
PCI DSS Level 1	
ISO 27001	
FedRAMP(SM)	
DIACAP and FISMA	
ITAR	

AWS Compliance:
http://aws.amazon.com/compliance/

Shared Security Responsibility

AWS Responsibility

- Virtual host security
- Storage security
- Network security
- Data center security
- Database security

Our Responsibility

- AWS account security (MFA, API)
- Operating system
- Database
- Applications
- Data encryption
- Authentication
- Network integrity

Security Methods and Connectivity

Security Groups

Virtual Private Cloud (VPC)

Direct Connect

Import / Export

VPN Access

Dedicated Server

Identity and Access Management (IAM)

User and service management

Controls access to AWS resources

Multi-factor authentication

API access

AWS IAM:

http://aws.amazon.com/iam/

Summary

Physical Access

Security Certification and Accreditation

Shared Security Responsibility

Security Methods and Connectivity

Identity and Access Management (IAM)