Shared Responsibility Model

Cheat sheets, Practice Exams and Flash cards www.exampro.co/clf-c01

The Shared Responsibility Model is a cloud security framework that defines the security obligations of the customer versa the Cloud Service Provider (CSP) e.g. AWS.

Each CSP has their own variant of the Shared Responsibility Model but they are all generally the same.

AWS Shared Responsibility Model



CUSTOMER

		CUSTON	IER DATA			
PLATFO	RM, AFF	LICATIONS, IDE	NTITY & ACCES	S MANAG	EMENT	
OPERAT	ING SY	ITEM, NETWOR	C & FIREWALL C	ONFIGUE	LATION	
CLIENT-SIDE DATA ENCRYPTION & EAZA INTO AUTHENTICATION	INTEGRITY SERVER				METHOGRANG TRAFFIC DTECTION (ENCRYPTION INTEGRITY, EXERTITY)	
		SOFT	WARE			



The type of cloud deployment model and/or the scope of cloud service category can result in specialized Shared Responsibility Models.

AWS Shared Responsibility Model

Cheat sheets, Practice Exams and Flash cards www.exampro.co/clf-c01

Configuration of Managed Services or Third-Party Software **Platforms** Applications Identity and Access Management (IAM) Customer Configuration of Virtual Infrastructure and Systems **Operating System** Network Firewall Security Configuration of Data Networking Traffic Protection Client-Side Data Encryption Server-Side Encryption **Customer Data** Software AWS Hardware / Global Infrastructure Regions

AWS Shared Responsibility Model

Cheat sheets, Practice Exams and Flash cards www.exampro.co/clf-c01

Customers are responsible for Security in the Cloud



IN

Data Configuration



OF

Hardware
Operation of Managed Services
Global Infrastructure

AWS is responsible for Security of the Cloud

Types of Cloud Computing Responsibility

Cheat sheets, Practice Exams and Flash cards www.exampro.co/clf-c01

On-Premise	Infrastructure as a Service	Platform as a Service	Software as a Service
Applications	Applications	Applications	Applications
Data	Data	Data	Data
Runtime	Runtime	Runtime	Runtime
Middleware	Middleware	Middleware	Middleware
os	OS	os	os
Virtualization	Virtualization	Virtualization	Virtualization
Servers	Servers	Servers	Servers
Storage	Storage	Storage	Storage
Networking	Networking	Networking	Networking

Legend:

Customer is Responsible

CSP is Responsi

Shared Responsibility Model - Compute

Cheat sheets, Practice Exams and Flash cards www.exampro.co/clf-c01

Let us take a look at compute as a comparison example of the Shared Responsibility Model

Infrastructure as a Service (IaaS)

The Host OS Configuration





Virtual Machine

Elastic Cloud Compute (EC2)

Customer:

- The Guest OS Configuration
- Container Runtime AWS
- Hypervisor Physical machine

Customer:

- Hypervisor AWS
- Physical machine

Platform as a Service (PaaS)

Managed Platform

AWS Flastic Reanstalk

Customer

- Uploading your code Some configuration of environment
- Deployment strategies Configuration of associated services
- AWS

Servers, OS, Networking, Storage, Security



Content Collaboration

Amazon WorkDocs

Customer:

- Contents of documents
- Management of files
- Configuration of sharing access controls AW/S
- Servers, OS, Networking, Storage, Security



AWS Elastic Container Service(ECS) Customer

- Configuration of containers
- Deployment of Containers
- Storage of containers AWS
 - The OS, The Hypervisor, Container Runtime

Function as a Service (FaaS)



Customer:

Upload your code

AWS Deployment, Container Runtime, Networking,

Storage, Security, Physical Machine, (basically everything)

Shared Responsibility Model - Compute

Cheat sheets, Practice Exams and Flash cards 👉 www.exampro.co/clf-c01













Bare Metal Inst

EC2 Bare Metal Instance EC2 Dedicated Instance/Host Elastic Compute Cloud (EC2)

Elastic Container Service (ECS)
Elastic Kubernetes Service (EKS)
AWS Fargate*

AWS Lambda





Shared Responsibility Model

Cheat sheets, Practice Exams and Flash cards www.exampro.co/clf-c01

The **Shared Responsibility Model** is a simple visualization that helps determine what the customer is responsible for and what the CSP is responsible for related to AWS.

The customer is responsible for the data and the configuration of access controls that resides in AWS.

The customer is responsible for the configuration of cloud services and granting access to users via permissions.

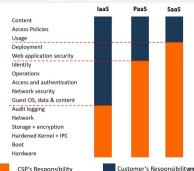
CSP is generally responsible for the underlying

Responsibility of in the cloud

If you can configure or store it then you (the customer) are responsible for it.

Responsibility of the cloud

If you can not configure it then CSP is responsible for it



Shared Responsibility Model – Architecture

Cheat sheets, Practice Exams and Flash cards www.exampro.co/clf-c01

Less Responsibility



Serverless / Functions

No more servers, just worry about data and code

Microservices / Containers

Mix and match languages, better utilization of resources

Traditional / VMs

Global workforce is most familiar with this kind of architecture and lots of documentation, frameworks and support.

More Responsibility