

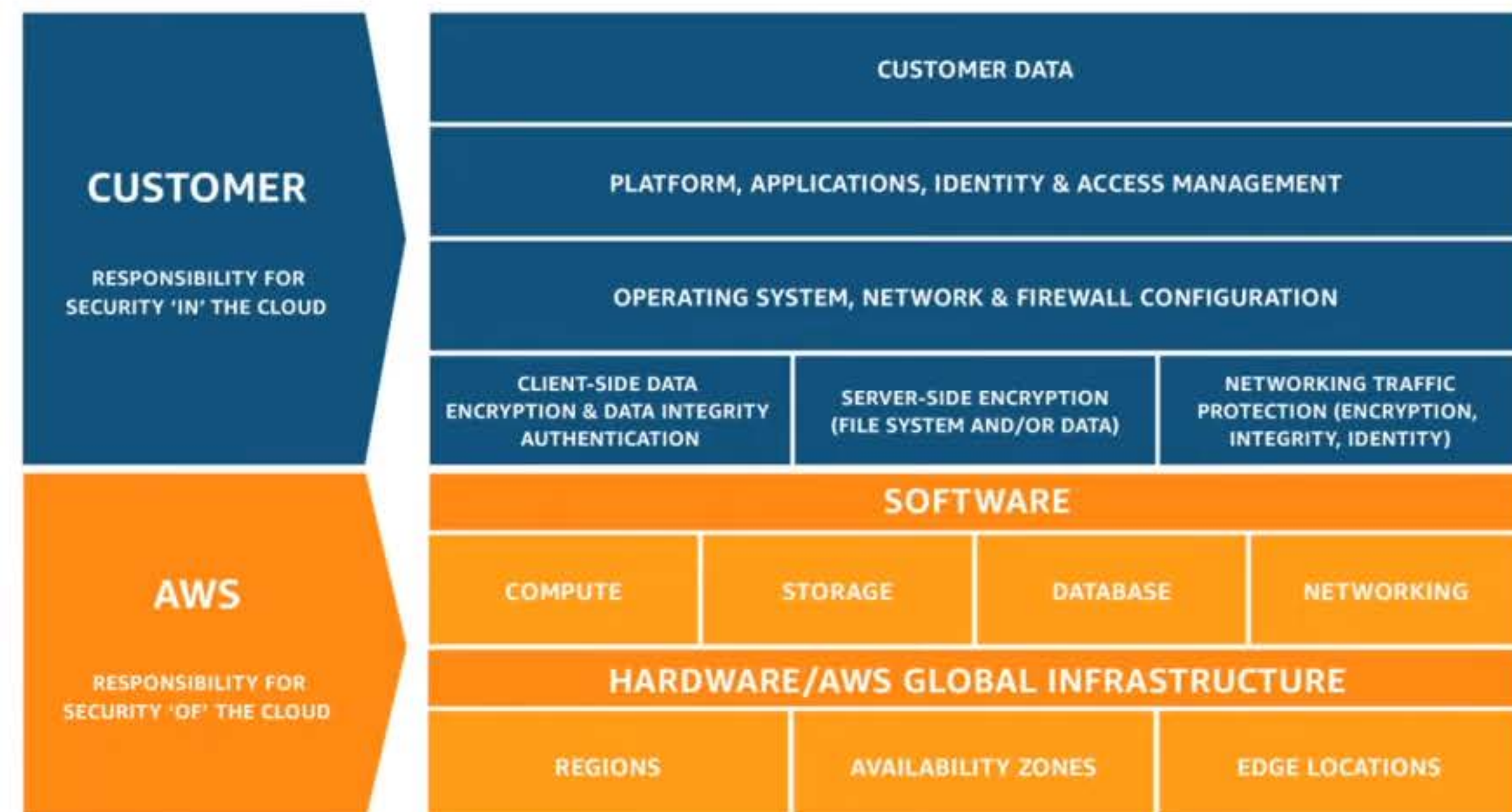
# Shared Responsibility Model

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The **Shared Responsibility Model** is a **cloud security framework** that defines the security obligations of the customer versus 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



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

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## Customer

### Configuration of Managed Services or Third-Party Software

Platforms

Applications

Identity and Access Management (IAM)

### Configuration of Virtual Infrastructure and Systems

Operating System

Network

Firewall

### Security Configuration of Data

Client-Side Data Encryption

Server-Side Encryption

Networking Traffic Protection

Customer Data

## AWS

### Software

Compute

Storage

Database

Networking

### Hardware / Global Infrastructure

Regions

Availability Zones

Edge Locations

Physical Security



# AWS Shared Responsibility Model

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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

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## On-Premise

Applications
Data
Runtime
Middleware
OS
Virtualization
Servers
Storage
Networking

## Infrastructure as a Service

Applications
Data
Runtime
Middleware
OS
Virtualization
Servers
Storage
Networking

## Platform as a Service

Applications
Data
Runtime
Middleware
OS
Virtualization
Servers
Storage
Networking

## Software as a Service

Applications
Data
Runtime
Middleware
OS
Virtualization
Servers
Storage
Networking

Legend:

Customer is Responsible

CSP is Responsible





# Shared Responsibility Model – Compute

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

## Infrastructure as a Service (IaaS)



### Bare Metal

EC2 Bare Metal Instance

Customer:

- The Host OS Configuration
- Hypervisor

AWS

- Physical machine



### Virtual Machine

Elastic Cloud Compute (EC2)

Customer:

- The Guest OS Configuration
- Container Runtime

AWS

- Hypervisor, Physical machine



### Containers

AWS Elastic Container Service (ECS)

Customer:

- Configuration of containers
- Deployment of Containers
- Storage of containers

AWS

- The OS, The Hypervisor, Container Runtime

## Platform as a Service (PaaS)



### Managed Platform

AWS Elastic Beanstalk

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

AWS

- Servers, OS, Networking, Storage, Security

## Software as a Service (SaaS)

## Function as a Service (FaaS)



### Functions

AWS Lambda

Customer:

- Upload your code

AWS

- Deployment, Container Runtime, Networking, Storage, Security, Physical Machine, (basically everything)



# Shared Responsibility Model – Compute

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## Bare Metal

EC2 Bare Metal Instance



## Dedicated

EC2 Dedicated Instance/Host



## Virtual Machines (VM)

Elastic Compute Cloud (EC2)



## Containers

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



## Functions

AWS Lambda

Code

App Container

Runtime

OS

Virtualization


Customer  
Responsibility

Level of Control

AWS  
Responsibility



# Shared Responsibility Model

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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.

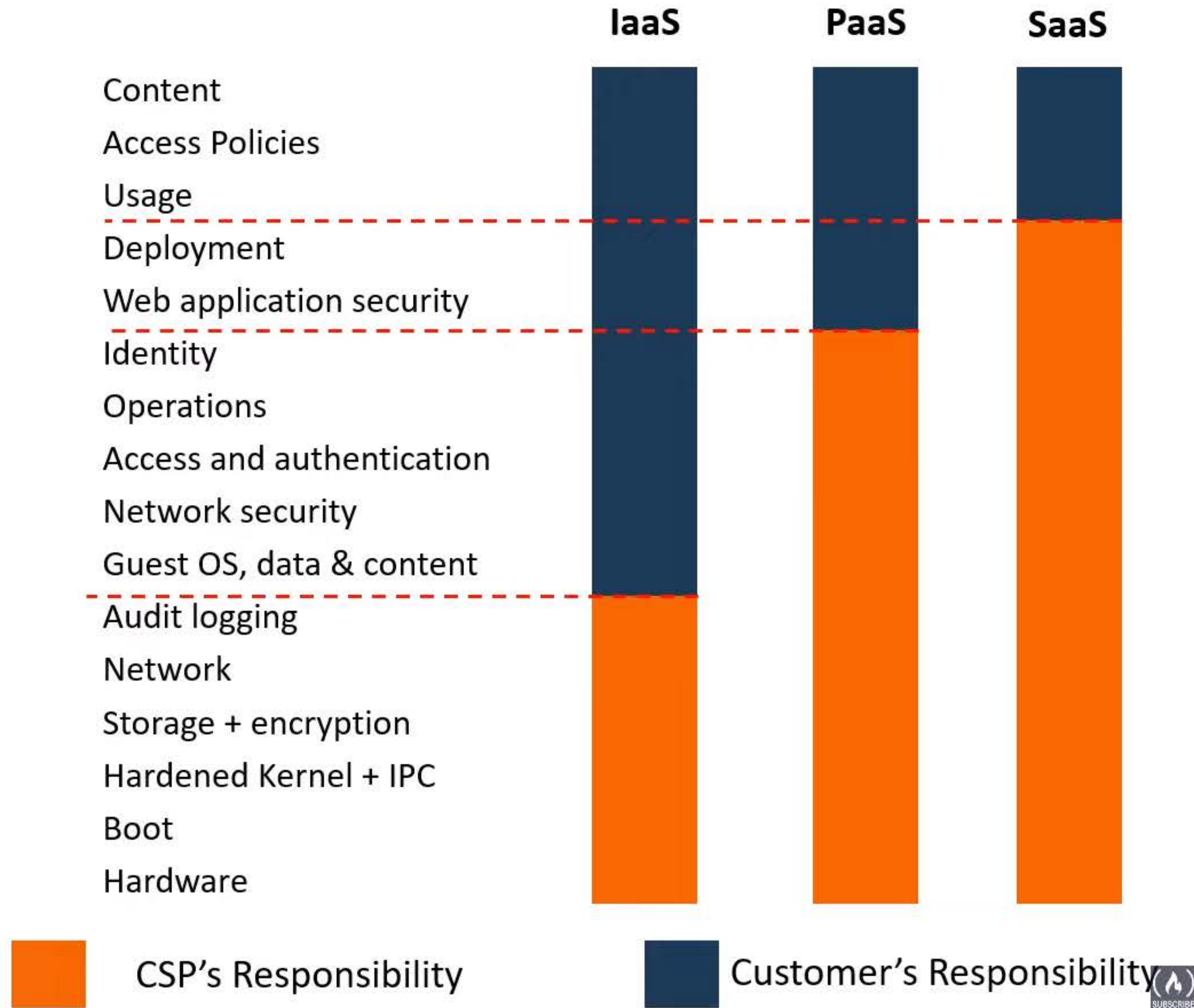
CSP is generally responsible for the underlying Infrastructure.

## 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

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Less Responsibility



More Responsibility



**Amplify** Serverless Framework



**Lambda** Serverless Architecture

**Serverless** / Functions

No more servers, just worry about data and code



**Fargate** Serverless Containers



**ECS/EKS** Containers

**Microservices** / Containers

Mix and match languages, better utilization of resources



**Elastic Beanstalk** Platform as a Service



**EC2** Infrastructure as a Service

**Traditional** / VMs

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