

Cloud Foundations

Chirag Oswal Nov 5 2023



Insert photo

WHAT I STUDIED

Insert degree

PRIOR EXPERIENCE Insert experience

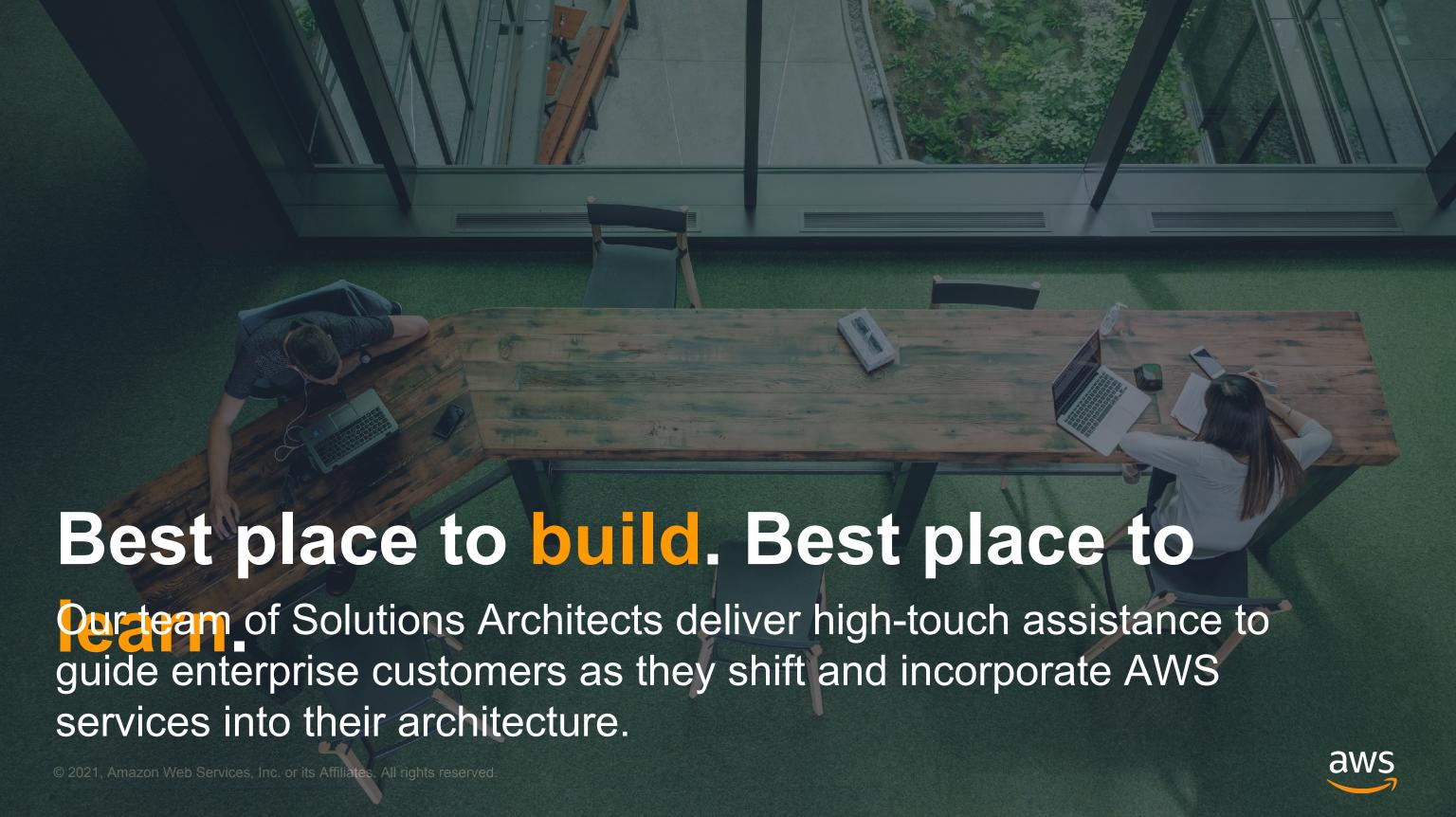
AWS Presenter

Solutions Architect

FUN FACT ABOUT ME

insert fun fact

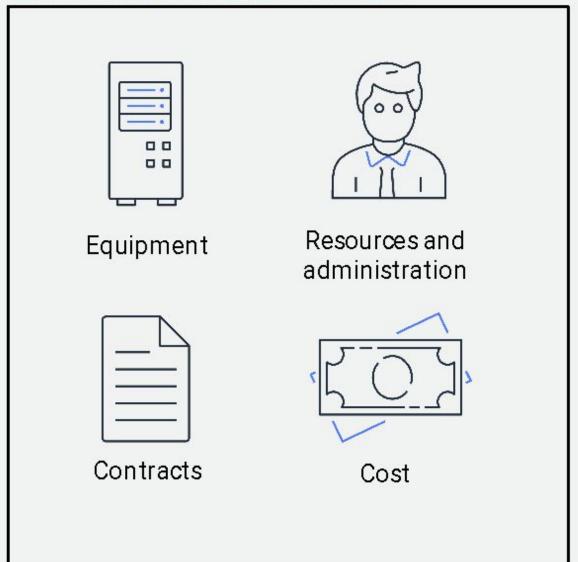




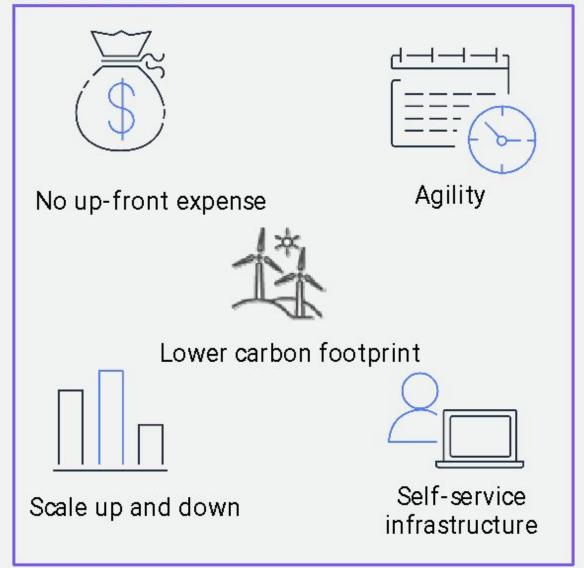
Cloud Foundations aws



Traditional infrastructure



AWS Cloud





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WHAT IS CLOUD?

On-demand delivery of IT resources through the Internet with pay-as-you go pricing







The cloud gives you easy access to a broad range of technologies so that you can innovate faster and build nearly anything that you can imagine.





With cloud computing, you do not have to over-provision resources up front to handle peak levels of business activity in the future.





The cloud allows you to trade capital expenses (such as data centers and physical servers) for variable expenses, and only pay for IT as you consume it.



Agility

Elasticity

Cost Savings

Deploy Globally within Minutes

With the cloud, you can expand to new geographic regions and deploy globally in minutes.





What is

laaS vs PaaS vs SaaS

?



Infrastructure (as a Service)

Application

Data

Runtime

Middleware

Operating System

Virtualization

Servers

Storage

Networking

Platform (as a Service)

Application

Data

Runtime

Middleware

Operating System

Virtualization

Servers

Storage

Networking

Software (as a Service)

Application

Data

Runtime

Middleware

Operating System

Virtualization

Servers

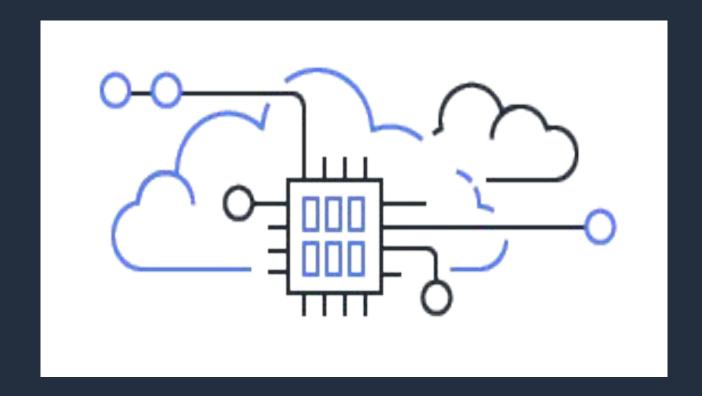
Storage

Networking



Cloud Computing Deployment Models aws

Cloud Deployment



A cloud-based application is fully deployed in the cloud and all parts of the application run in the cloud.



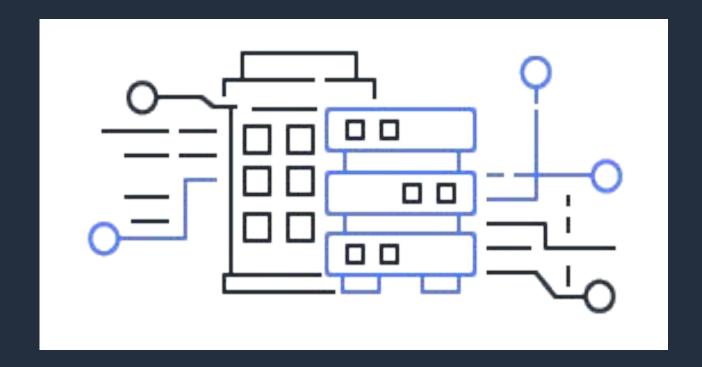
Hybrid Deployment



A hybrid deployment is a way to connect infrastructure and applications between cloud-based resources and existing resources that are not located in the cloud.



On-Premises Deployment



Deploying resources on-premises, using virtualization and resource management tools, is sometimes called "private cloud". On-premises deployment does not provide many of the benefits of cloud computing



Introduction to AWS aws

Broad and Deep Functionality

TECHNICAL & BUSINESS SUPPORT

MARKETPLACE

ANALYTICS

DEV OPS

MOBILE SERVICES

HYPRID
ARCHITECTURE

MIGRATION

APP SERVICES

INFRASTRUCTURE

CORE SERVICES

SECURITY & COMPLIANCE

MANAGEMENT TOOLS



SERVICES



Industry leaders are building on AWS











































































































































































AWS Global Infrastructure

25 Regions

81 Availability Zones

275+
Points of Presence

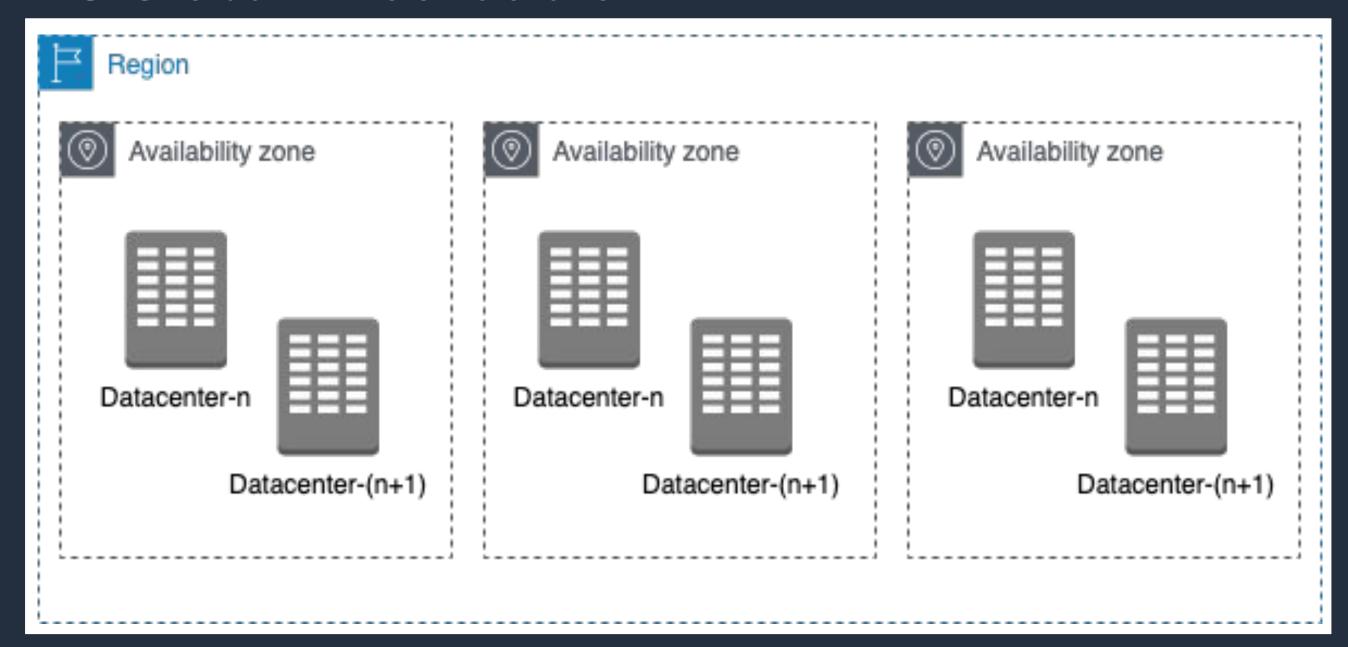


Announced Regions

Auckland, Melbourne, Jakarta, Hyderabad,, UAE, and Switzerland

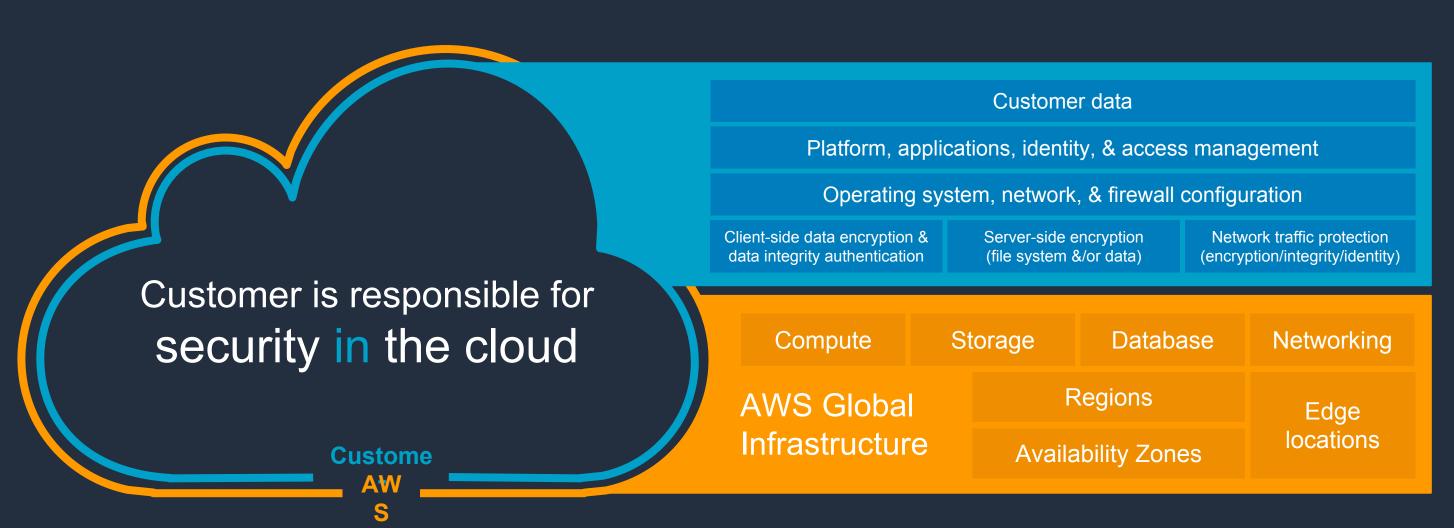


AWS Global Infrastructure





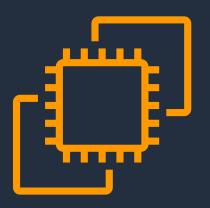
Share your security responsibility with AWS



AWS is responsible for security of the cloud



Foundational Services aws



Compute



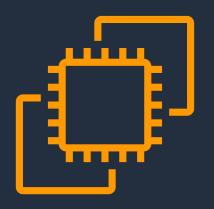
Storage



Database



Computing on AWS



Amazon EC2

Virtual server instances in the cloud



Amazon ECS, EKS, and Fargate

Container management service for running containerized applications



AWS Lambda

Serverless compute for stateless code execution in response to triggers



Computing on AWS: Serverless Introduction



No infrastructure provisioning, no management



Automatic scaling

Pay for value



Highly available and secure





Real-time data processing with AWS Lambda



Photograph is taken

Photo is uploaded to a S3 bucket

Serverless compute for stateless code execution in response to triggers

Photo is resized into web, mobile, and table sizes



Storage on AWS



S3

Object storage built to store and retrieve any amount of data from anywhere



EBS

Easy to use, high performance block storage at any scale



EFS

Simple, serverless, set-and-forget, elastic file system



Database on AWS



RDS

Set up, operate, and scale a relational database in the cloud with just a few clicks



DynamoDB

Fast and flexible NoSQL database service for any scale



Redshift

Analyze all of your data with the fastest and most widely used cloud data warehouse





Thank You aws •

Identity and Access Management aws

What is IAM?







Manage users and their access

Manage roles and their permissions

Manage federated users and their permissions





Principle of Least Privilege





Get Started on AWS aws

Get Started

Free Tier
Test Drive AWS Services

AWS SolutionsVetted Technology Solutions

Training and Certification

Advance Your Skills









Insert Name
Insert Date

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