

# AWS Cloud Deployment Models

Topics : [AWS](#)

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Amazon Web Services (AWS) supports various deployment models, allowing users to choose the most suitable approach for their specific needs. The two primary deployment models in AWS are:

## 1. On-Demand or Public Cloud:

- In this model, resources are provisioned and made available over the internet to the general public.
- AWS provides a shared pool of computing resources (such as virtual machines, storage, and databases) to multiple customers.
- It follows a pay-as-you-go pricing model, where users are billed based on their actual usage of resources.

## 2. Virtual Private Cloud (VPC) or Private Cloud:

- VPC is a logically isolated section of the AWS Cloud where users can launch AWS resources in a virtual network that they define.
- It allows users to have more control over their network settings, including the selection of IP address ranges, creation of subnets, and configuration of route tables.
- VPC enables the creation of a private and secure network environment within the AWS cloud.

These deployment models can be further categorized based on how the resources are managed and shared:

## 1. Shared Responsibility Model:

- AWS operates on a shared responsibility model, where AWS manages the security of the cloud infrastructure (hardware, software, networking, and facilities), and customers are responsible for securing their data, applications, identity, and access management.
- AWS provides security measures at the physical and network levels, while customers are responsible for implementing security measures within their own applications and data.

## 2. Hybrid Cloud:

- A hybrid cloud deployment involves integrating on-premises infrastructure (private cloud) with cloud-based resources (public cloud).
- It allows organizations to leverage the benefits of both on-premises and cloud environments, providing flexibility, scalability, and cost-effectiveness.

- AWS offers services and solutions, such as AWS Direct Connect and AWS VPN, to facilitate hybrid cloud architectures.

### 3. **Multi-Cloud:**

- Multi-cloud involves using services and resources from multiple cloud providers.
- Organizations may choose to distribute their workloads across different cloud providers to avoid vendor lock-in, improve redundancy, and optimize costs.
- AWS provides compatibility and integration with various third-party tools and services, making it possible for users to implement multi-cloud strategies.

### 4. **Edge Computing:**

- Edge computing involves processing data closer to the source of data generation, reducing latency and improving performance.
- AWS provides services like AWS Wavelength, which extends AWS infrastructure to telecommunications networks, enabling ultra-low latency applications at the edge.

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