

Virtuoso Infotech Pvt. Ltd.



# About Virtuoso Infotech

- Fastest growing start-up firm; Offers the flexibility of a small firm and robustness of over 30 years experience collectively within the leadership team
- Technology expertise & passionate team
- Successful client engagements across India, USA, UK, Australia and Argentina
- Handle enterprise solutions that involve **30,000 active users**, more than 20 servers, **data volume as big as 5 million entries per day**

# Amazon Web Services



- Bhargav Mehta

# Agenda

- What is Cloud Computing ?
- Types of Cloud Computing.
- What is AWS ?
- Different Services provided by AWS.
- Demo
- Why AWS ?
- Questions

# What is Cloud Computing?

- Cloud computing is the on-demand delivery of compute power, database storage, applications, and other IT resources through a cloud services platform via the internet with pay-as-you-go pricing.
- Cloud computing provides a simple way to access servers, storage, databases and a broad set of application services over the Internet.
- A Cloud services platform such as Amazon Web Services owns and maintains the network-connected hardware required for these application services, while you provision and use what you need via a web application.

# Types of Cloud Computing

## ➤ **Infrastructure as a Service (IaaS)**

- It contains the basic building blocks for cloud IT and typically provide access to networking features, computers (virtual or on dedicated hardware), and data storage space.
- Infrastructure as a Service provides you with the highest level of flexibility and management control over your IT resources.
- Most similar to existing IT resources that many IT departments and developers are familiar with today.

# Types of Cloud Computing

## ➤ **Platform as a Service (PaaS):**

- It remove the need for organizations to manage the underlying infrastructure (usually hardware and operating systems).
- Allows you to focus on the deployment and management of your applications.
- Helps to be more efficient as you don't need to worry about undifferentiated heavy lifting involved in running your application.

# Types of Cloud Computing

## ➤ **Software as a Service (SaaS):**

- It provides you with a completed product that is run and managed by the service provider. In most cases, people referring to Software as a Service are referring to end-user applications.
- With a SaaS offering you do not have to think about how the service is maintained or how the underlying infrastructure is managed; you only need to think about how you will use that particular piece software.

# What is AWS?

- Amazon Web Services (AWS) is a secure cloud services platform, offering compute power, database storage, content delivery and other functionality to help businesses scale and grow.
- The AWS Cloud provides a broad set of infrastructure services, such as computing power, storage options, networking and databases, delivered as a utility: on-demand, available in seconds, with pay-as-you-go pricing
- It provides building blocks that helps you create an entire architecture.
- AWS provides more than 50 services to help you build a cloud platform suitable to your needs and requirements

# Different Services provided by AWS

## ➤ Amazon EC2

Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud. It is designed to make web-scale cloud computing easier for developers.

## ➤ Amazon S3

Amazon Simple Storage Service is object storage with a simple web service interface to store and retrieve any amount of data from anywhere on the web.

# Different Services provided by AWS

## ➤ Amazon RDS

Amazon Relational Database Service (Amazon RDS) makes it easy to set up, operate, and scale a relational database in the cloud.

## ➤ AWS Lambda

AWS Lambda lets you run code without provisioning or managing servers. You pay only for the compute time you consume - there is no charge when your code is not running.

# Different Services provided by AWS

## ➤ **Amazon QuickSight**

Amazon QuickSight is a fast, cloud-powered business analytics service that makes it easy to build visualizations, perform ad-hoc analysis, and quickly get business insights from your data.

## ➤ **AWS IOT**

AWS IoT is a managed cloud platform that lets connected devices easily and securely interact with cloud applications and other devices.

# Different Services provided by AWS

## ➤ Some other services



Compute



Storage



Database



Migration



Networking & Content Delivery



Developer Tools



Management Tools



Security, Identity & Compliance



Analytics



Artificial Intelligence



Mobile Services



Application Services



Messaging



Business Productivity



Desktop & App Streaming



Internet of Things



Contact Center



Game Development



See All Products

# Demo

- AWS EC2
- AWS S3
- AWS Device Farm
- Amazon Lex and Amazon Polly
- Amazon DynamoDB
- Amazon Image Rekognition

# Why AWS ?

- **Easy to use**
- **Flexible** - Enables you to select the operating system, programming language, web application platform, database, and other services you need.
- **Cost-Effective** - You pay only for the compute power, storage, and other resources you use, with no long-term contracts or up-front commitments.
- **Scalable and high-performance** - Using AWS tools, Auto Scaling, and Elastic Load Balancing, your application can scale up or down based on demand.
- **Secure** - AWS utilizes an end-to-end approach to secure and harden our infrastructure, including physical, operational, and software measures

# Why AWS ?

## ➤ Global Infrastructure

- High Availability Through Multiple Availability Zones
- Improving Continuity With Replication Between Regions
- Meeting Compliance and Data Residency Requirements



# Thank You!

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