DEPLOYING STATIC WEBSITE ON CLOUD

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INTRODUCTION

Cloud computing is the on-demand delivery of IT resources over the Internet with pay-as-you-go pricing. You can receive technology services like computing power, storage, and databases on an as-needed basis from a cloud provider like Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), etc. rather than purchasing, owning, and maintaining physical data centres and servers. Servers, storage, a network, applications, and services are some of these resources. Cloud computing is ranked as one of the top ten disruptive technologies for the foreseeable future by Gartner's List.

TRADITIONAL WAY OF DEPLOYING

Traditionally, Companies or people used to set up large number of servers and also dedicated a storage space for their servers, as we know Google started from a garage and when the users kept on increasing the existing servers could not handle the traffic this caused a lot problems which gradually made way for the Cloud

PROBLEMS FACED IN TRADITIONAL APPROACH

There were a numerous number of problems faced in the traditional approach, some of which were-

- Companies have to pay for the rent for the data center
- Companies have to spend for power supply, cooling, maintenance
- They also have to deal with hardware related stuffs and maintain it
- They have to hire 24/7 team to monitor the infrastructure
- One of the major problems they faced are disasters and power outage

This al problems lead to Companies building of Cloud Infrastructure

CLOUD COMPUTING (MODERN WAY OF DEPLOYING)

Nowadays, almost everyone starting from small scale start-ups to large scale MNCs have made their way to the Cloud. All the day-to-day application we are using (e.g-Netflix, Ola, Swiggy etc) are hosted on Cloud.

Advantages of Cloud

- The Cloud users can make resources available to them and consume them without interacting with the service provider directly.
- Multiple clients can benefit from the same physical resources while sharing the same infrastructure and applications in a secure and private manner.
- Cloud has high scalability and elasticity means that in Cloud we can automatically provision resources that we need and also, we remove resources when we don't need it that helps us in cost optimization
- Cloud helps us to make shift from Capex (Capital Expenditure) to Opex (Operational Expenditure) means that we don't have spend money on capital and rather spend on Operations
- Data is easily backed up in Cloud in multiple servers so that in case if disaster's we don't lose our data.
- Cloud doesn't have any upfront cost
- Cloud helps us in maintaining the Security of our applications

Problems Solved By Cloud

- Highly Scalable and flexible
- It is very cost effective
- It can handle a large amount of traffic when we provision more resources to it
- Data is available to the users even in case of disasters