Cloud Fundamentals

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1 Cloud Computing

Cloud Computing is the delivery of IT resources over the internet. The cloud is like a virtual data center accessible via the internet that allows you to manage - Storage services like databases - Servers, compute power, networking - Analytics AI, augmented reality - Security services for data and applications

2 Characteristics of Cloud Computing

Some benefits of cloud computing include: - Pay as you go - Autoscaling - Serverless

Serverless simply means you dont have to worry about hosting your site

3 Types of Cloud Computing

### 3.1 Infrastructure As A Service (Iaas)

The provider supplies vvirtual server instances, storage and mechanism for you to manage servers (AWS, google cloud, digitalocean)

3.2 Platform As A Service (PaaS)

A platform of development tootls hosted on a providers infrastructure (salesforces, go daddy)

3.3 Software As A Service (SaaS)

A software application that runs over the internet and is managed by the service provider (gmail, data dog)
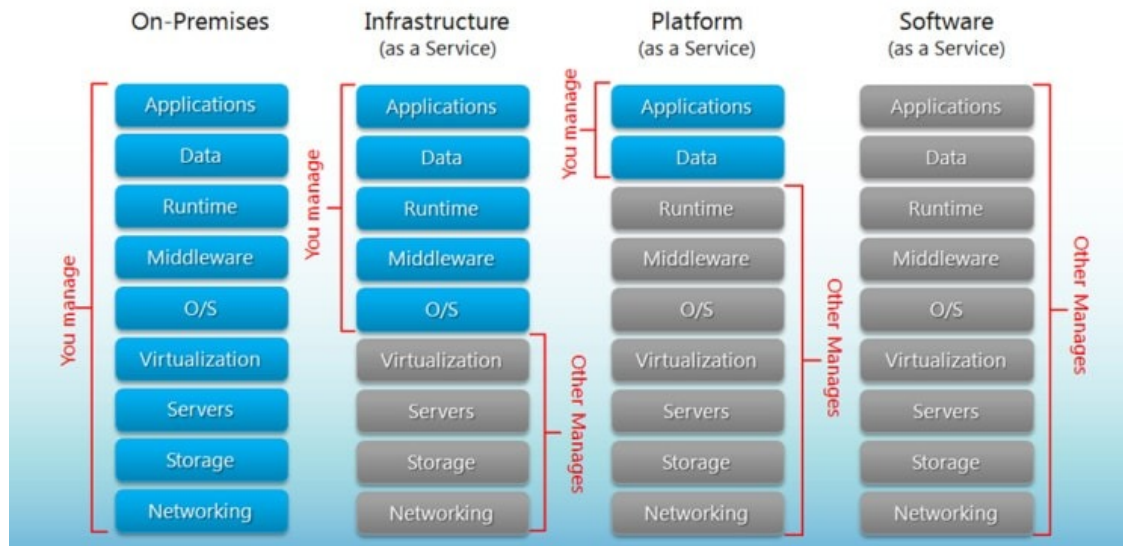
4 Cloud Deployment Models

4.1 Public Cloud

A public cloud makes resources avaliable over the internet to the general public

4.2 Private Cloud

A private cloud is a proprietary network that supplies services to a limited number of people

4.3 Hybrid Cloud

A hybrid model contains a combination of both a public and private cloud. For example, you can host your site on AWS but host your data in a secure location

5 Shared Responsiblity Model