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BASICS



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Introduction to Cloud Computing





Introduction to Cloud Computing

► What is Cloud Computing ?

- The Cloud term refers to software and services running on the internet, not locally on your computer.
- So you can Store and access data and programs over the internet rather than the hard drive of your computer.
- Cloud Computing Application running on someone else's computer





Introduction to Cloud Computing

How Cloud Works?

- ✔ Information and data are stored on physical or virtual servers that a cloud computing service such as Amazon and its AWS company retain and monitor. As a user of personal or business cloud computing, you use an internet connection to access the stored information on the cloud.



Introduction to Cloud Computing

Why Cloud Computing ?

Cloud Computing evolved the ways we use a computer.

- ✔ From companies to private users, everybody relies on the cloud directly or indirectly most of the time in their daily lives.
- ✔ Nowadays, cloud-based activities are rising the Internet's capacity more than ever before. So, nearly everything in the digital world runs on cloud computing.



Introduction to Cloud Computing

Why Cloud Computing ?

- ✔ It increases the value of the work and promises to reduce costs and helps users focus on their business and work rather than IT obstacles.
- ✔ It offers flexibility, data recovery, little or no maintenance, easy access and a higher level of security.



Introduction to Cloud Computing

Advantages of The Cloud Technology

- ✔ There are various benefits of cloud computing technology. The most important ones are given below.



Cost Efficiency



Elasticity & Flexibility



Reliability



Increased Security



Manageability



Availability



Centralization



Auto-Updating



No Maintenance



Introduction to Cloud Computing

Advantages of The Cloud Technology



Cost Efficiency VOLUMES

- ✔ One of the most important benefits of Cloud Computing is its economy.
- ✔ Cloud computing helps to reduce a significant amount of expenditure on both capital & operational manner.
- ✔ **You do not need to invest in expensive hardware, storage devices, and software, and only pay for the services you use.** This also saves the infrastructure costs and the money needed to manage the network.
- ✔ It provides the companies with the lowest possible level of operation with zero data capacity and software requirements, the business can save significant capital costs.



Introduction to Cloud Computing

Advantages of The Cloud Technology



Elasticity & Flexibility

- ✔ Cloud computing helps you to reduce your resource demands and increase them according to your needs.
- ✔ For example, you can increase your resources if you have heavy traffic on your site and vice versa.
- ✔ Cloud computing gives you the flexibility to work anywhere you want, and all you need is an internet connection whenever you want.



Introduction to Cloud Computing

Advantages of The Cloud Technology



Reliability VOLUMES

- ✔ Cloud computing is very reliable as the stored data is secured and can not be manipulated.
- ✔ Several copies of the data are being made, and if the database fails, the data from the other side can be recovered.
- ✔ The company can take advantage of both the vast pool of redundant IT services and the process of failover.



Introduction to Cloud Computing

Advantages of The Cloud Technology



Increased SecurityMES

- ✔ Everything you access and save with cloud computing is on the cloud.
- ✔ Even if a laptop is lost or damaged, another computer can be used to access the company GUI. And since all of the records are stored on the cloud, there is no question about losing important documents because they have been saved on a hard drive laptop that is now lost or damaged.
- ✔ The full-time job of a cloud host is to track security carefully, which is significantly more efficient than a traditional in-house program, where an organization needs to divide its efforts among a multitude of IT issues, with security being just one of them.



Introduction to Cloud Computing

Advantages of The Cloud Technology



- ✔ Cloud computing provides improved and streamlined capabilities for IT management and maintenance by central resource management.
- ✔ Many items are handled by cloud computing. The only thing the user has to do is get an internet connection and a laptop.



Introduction to Cloud Computing

Advantages of The Cloud Technology



- ✔ By its definition, cloud computing depends on the Internet, ensuring that businesses interested in starting or extending their use of cloud-based services need to work closely with an IT consulting firm to show them how to manage bandwidth rates that will be sufficient to meet their IT needs.
- ✔ Cloud service providers offer up to 99.99% uptime to ensure that business operations and executions continue to flow.



Introduction to Cloud Computing

Advantages of The Cloud Technology



Centralization VOLUMES

- ✔ Multiple remote locations can be reached by Cloud Computing



Introduction to Cloud Computing

Advantages of The Cloud Technology



Auto-Updating VOLUMES

- ✔ Software updates and enhancements can be a painful thing that cloud computing simplifies for you.
- ✔ The cloud service provider looks after and controls all software maintenance and upgrades.



Introduction to Cloud Computing

Advantages of The Cloud Technology



No Maintenance JMES

- ✔ Organizations need to think about managing the entire system while operating a conventional server setup.
- ✔ A cloud computing solution eliminates the need for any maintenance.
- ✔ Not only does it increase work efficiency, but also reduces costs of operations in the longer run.



Introduction to Cloud Computing

Disadvantages of The Cloud Technology

✔ The drawbacks of cloud computing are as follows:



Internet Dependency



Downtime



Loss of Control



Lack of Support

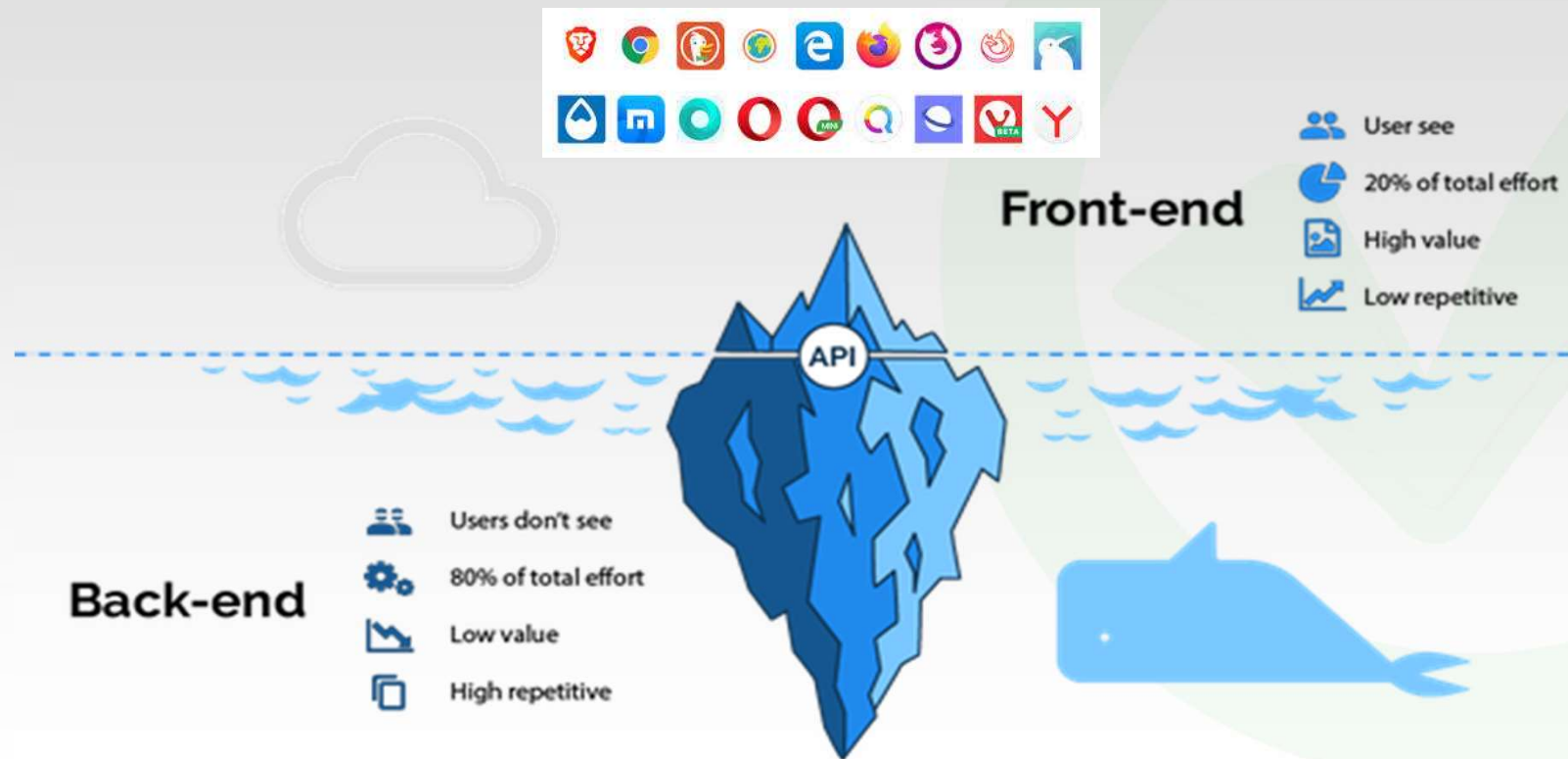


Cloud Computing Architecture



Introduction to Cloud Computing

Cloud Computing Architecture



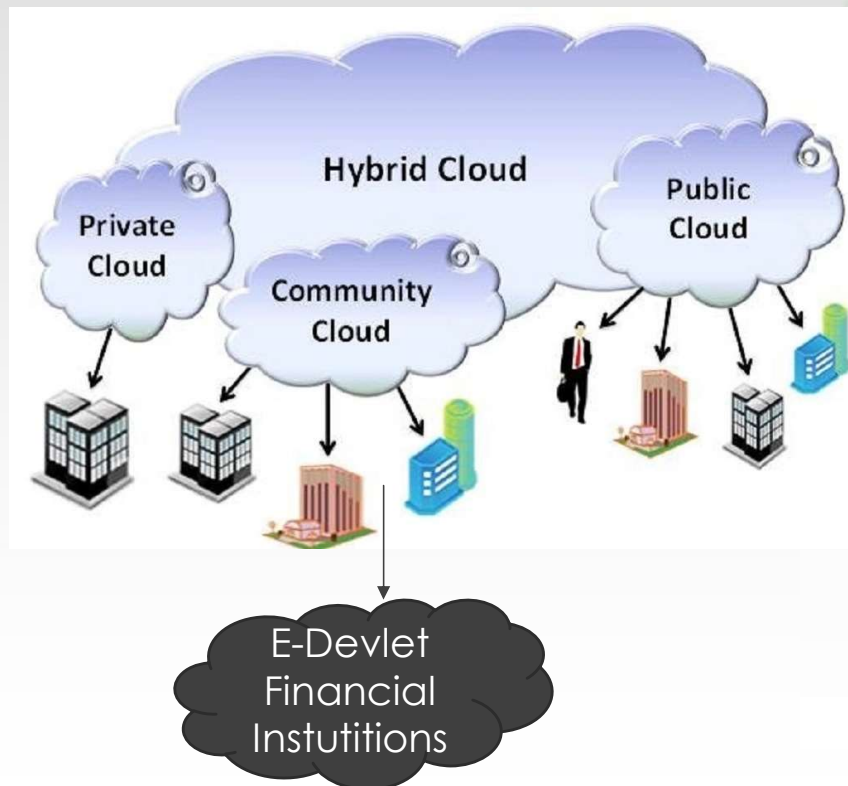


Cloud Computing Deployment Models



Introduction to Cloud Computing

Cloud Computing Deployment Models



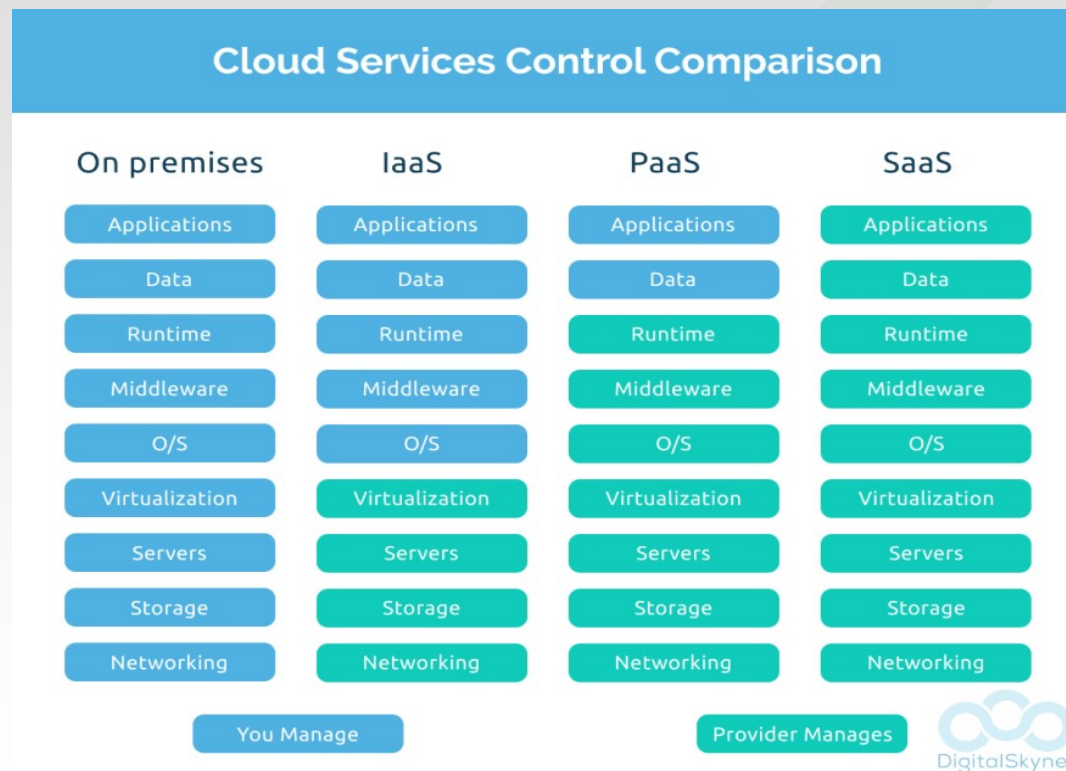


Cloud Computing Service Models



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Cloud Computing Service Models

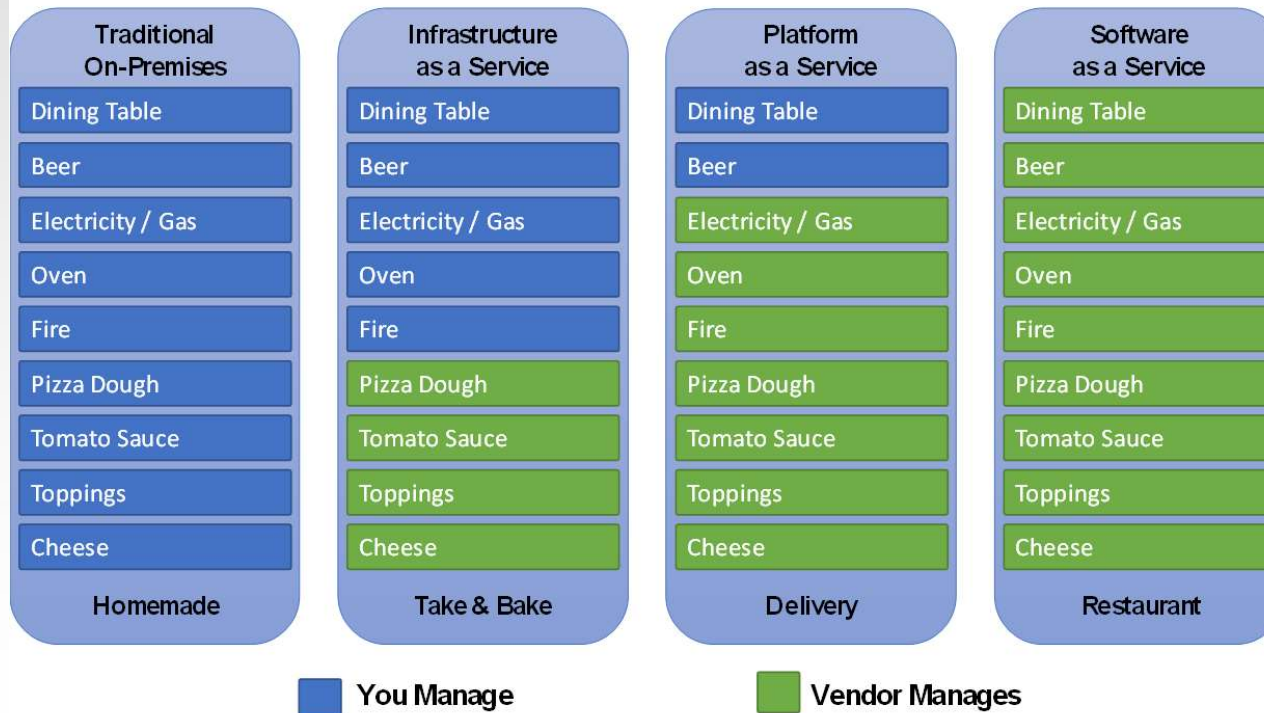


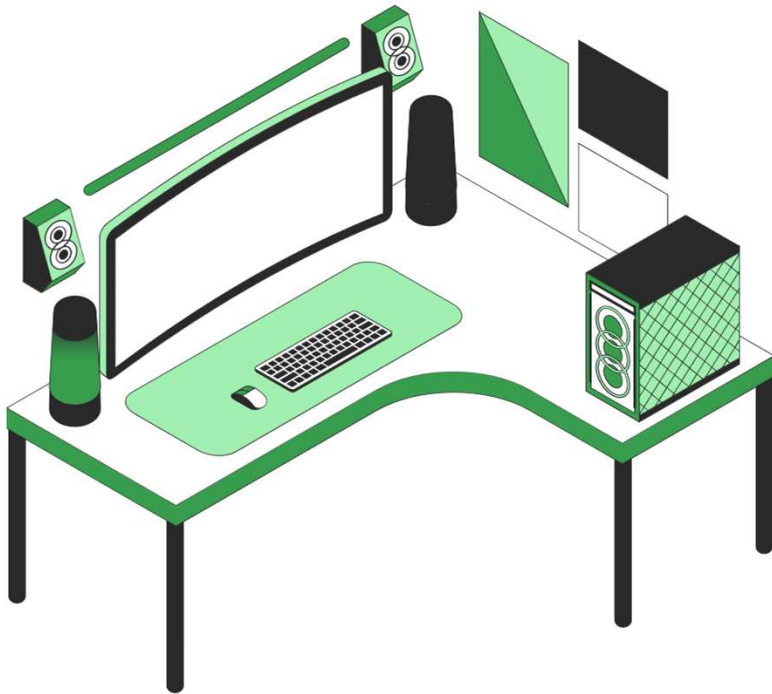


Introduction to Cloud Computing

Cloud Computing Service Models

Pizza as a Service





Do you have any questions?

Send it to us! We hope you learned something new.



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