

DevOps

Introduction to Cloud Computing

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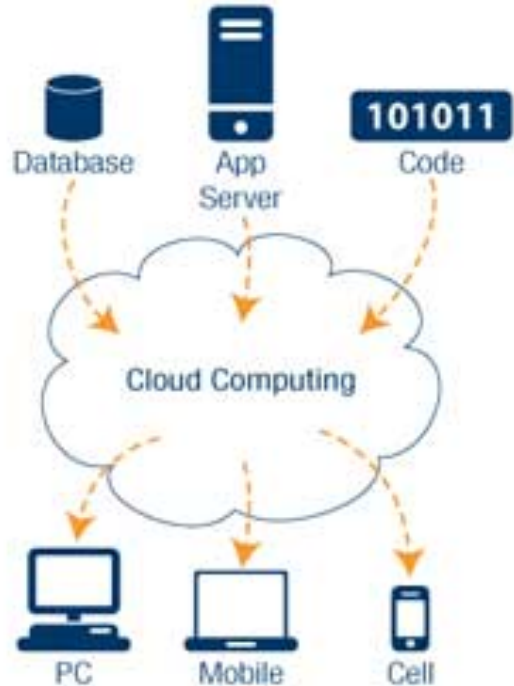
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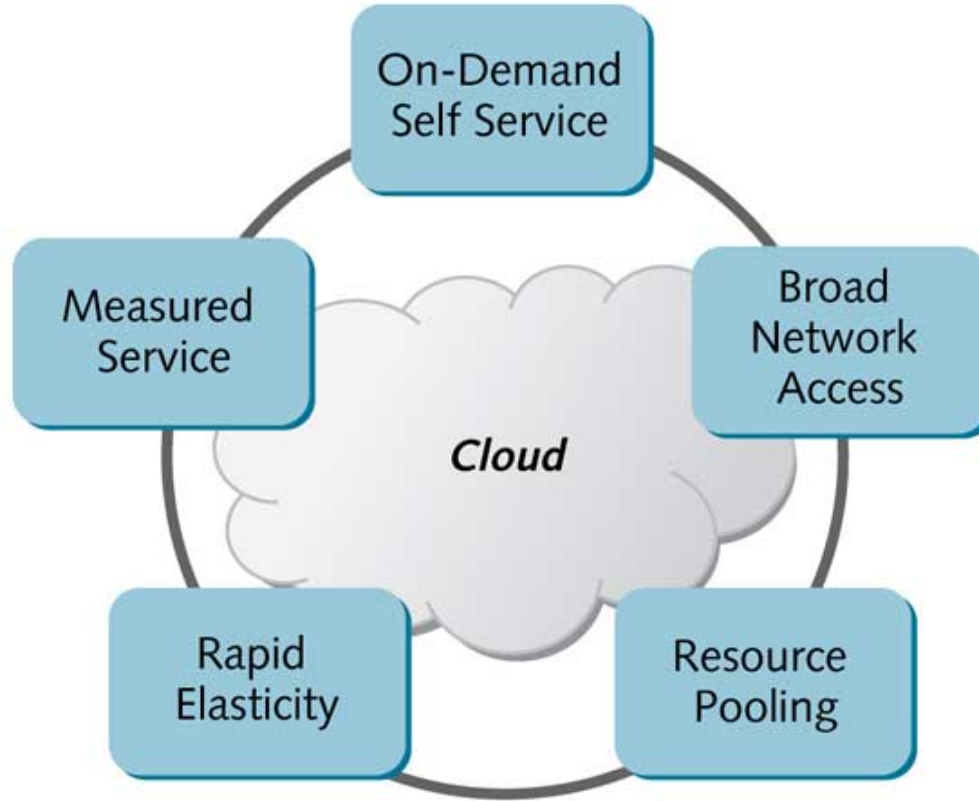


1. What is Cloud Computing?

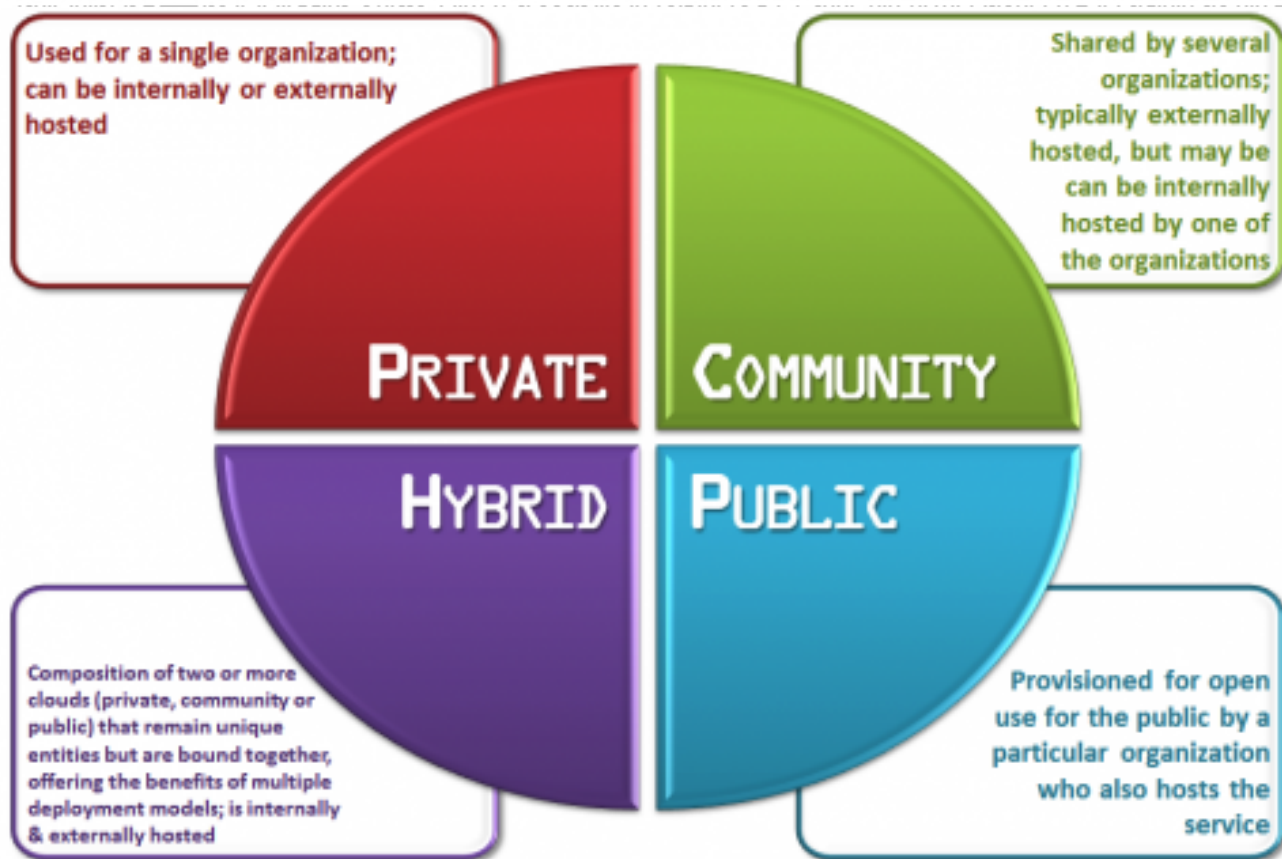
Cloud computing, often referred to as simply “the cloud,” is the delivery of on-demand computing resources—everything from applications to data centers—over the internet on a pay-for-use basis.



2. Characteristics of Cloud Computing



3. Cloud Implementation Models



4. Cloud Service Models



"IaaS"

Infrastructure-as-a-Service

host



"PaaS"

Platform-as-a-Service

build

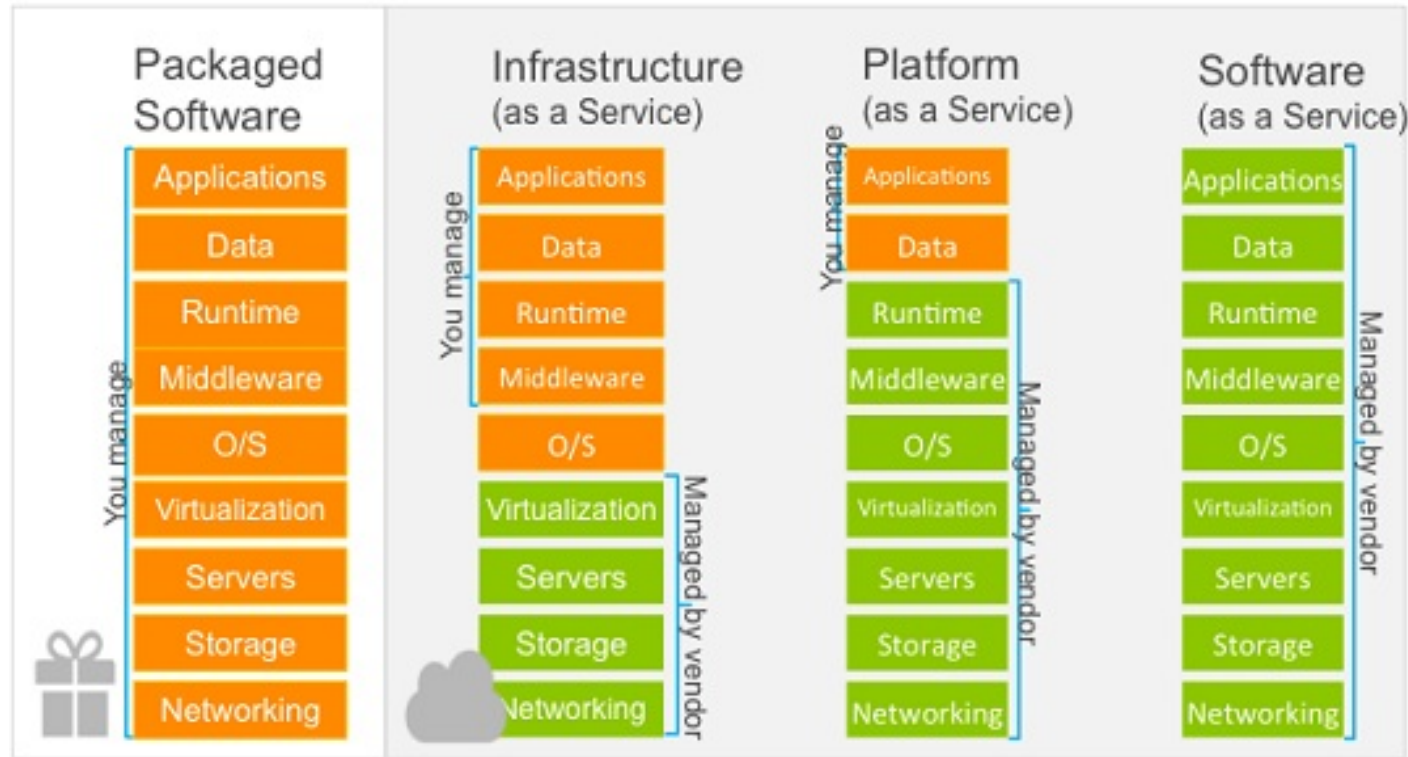


"SaaS"

Software-as-a-Service

consume

4. Cloud Service Models



Cloud Service Models – Infrastructure as a Service(IaaS)



- No need to invest in your own hardware
- Infrastructure scales on demand to support dynamic workloads
- Flexible, innovative services available on demand
- Eg:- Amazon EC2, Google Compute Engine, Microsoft Azure

Cloud Service Models – Platform as a Service(PaaS)



- Develop applications and get to market faster
- Deploy new web applications to the cloud in minutes
- Reduce complexity with middleware as a service
- Eg:- AWS Elastic BeanStalk, Heroku, Google App Engine

Cloud Service Models – Software as a Service(SaaS)



- You can sign up and rapidly start using innovative business apps
- Apps and data are accessible from any connected computer
- No data is lost if your computer breaks, as data is in the cloud
- The service is able to dynamically scale to usage needs
- Eg:- Google Apps, Microsoft Office 365

5. Advantages of Cloud Computing

- Cost
- Speed
- Global scale
- Productivity
- Performance
- Reliability

6. Cloud Computing Concerns

- Security & Privacy Concerns
- Lack of Resources/Expertise
- Cost Control Concerns

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