Cloud Computing

Is the on-demand delivery of compute power, database storage, application, and other IT resources.

- Service platform with pay as you go price
- access many resources as you need almost instantly
- -- access server storage database and set of application services

Private Cloud

- -Used by single organization not exposed to the public
- compute control
- security for sensitive application
- meet specific business need

Public Cloud

AWS, Google, Azure

Hybrid Cloud

- --Keep some server on premises and extended some capabilities to the Cloud
- Control over sensitive assets in your private infrastructure
- Flexibility and cost effectiveness of the public cloud

5 Characteristics of Cloud

- On demand self service
- Broad Network Access
- Multi -tenancy and resource Pooling
- Rapid Elastiity and Scalibility
- Measured Service

Six Advantages of Clouting

- 1.Trade Capital Expense (CAPEX) for Operational Expense (OPEX)
- Pay on demand
- Reduced total cost of ownership (TCO) & Operational Expense (OPEX)
- 2.Benefit from massive economies of scale
- price are reduced as AWS is more efficient due to large scale
- 3. Stop Guessing Capacity hub.com/pvnakum7
- scale based on actual measured usage
- 4. Increase speed and Agility
- 5. Stop Spending money running and Maintainig data Centers
- 6. Go global minutes: leverage the AWS global infrastructure

Proble Solve by Cloud

- Flixibility
- Cost-Effectiveness
- Scalability
- Elasticity
- High Availability and Fault Tolerance
- Agility

Types of Cloud Computing

- 1. IAAS- Infrastructure as a Service
 - AWS EC2, GCP, Azure, Rackspace, Digital Ocean, Linode
- 2. PAAS- Platform as a Service
 - -Elastic Beanstack, Heroku, Google App Engine (GCP), Windows Azure
- 3. Software As a Service
 - -Many AWS services(ex. Rekognition for Machine Learnig)
 - -Google App, Dropbox, zoom

Price Of the Cloud

- **Compute** -pay for stored in the cloud
- Storage -Pay for data storage in the cloud
- Data Transfer out of the Cloud: Data transfer IN if Free

2002	2003	2004	2006	
Launched	Idea for	Lauched	Re lauched with	Many more
	Infrastructure	Publicly with	SQS ,s3, EC2	
		SQS		

Note: SQS -Simple Queue Service

Global Services:

- -IAM (Identity and Access Management
- -Route 53(DNS Service)
- -CloudFront (CDN- Cloud Delivery Network)
- -WAF (Web Application Firewall)

Most AWS Service are Region Scoped:

- -Amazon EC2
- Lambda (Function as A service)
- -Elastic Beanstalk (Platform As Service) m/pvnakum7
- -Rekognition (Software As A Service)

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