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# **CLOUD COMPUTING APPLICATIONS**

Platform as a Service

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Reza Farivar

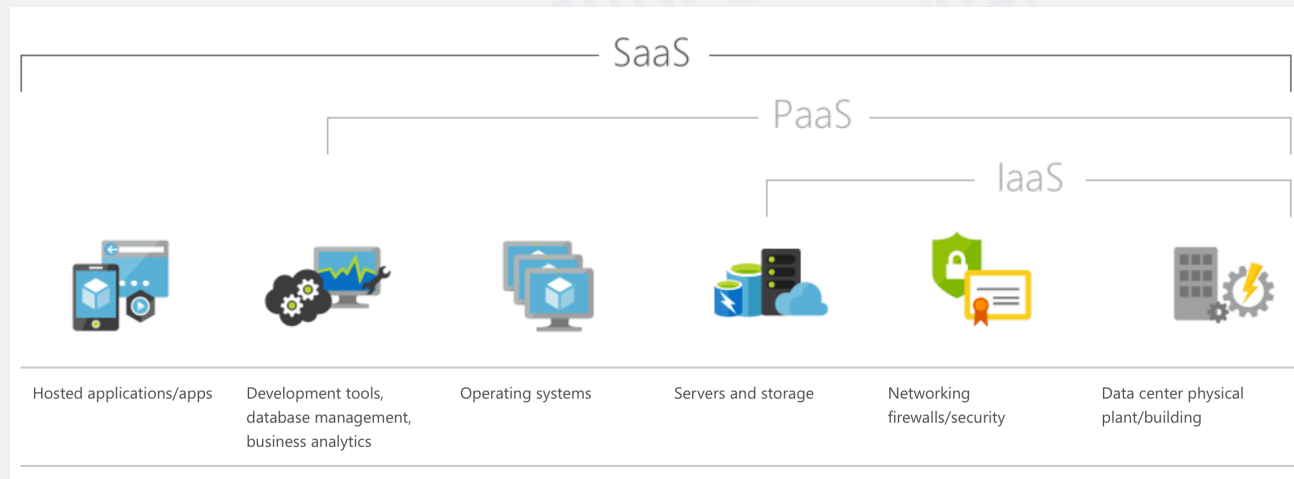
# Platform as a Service

- The main goal is to run the user's distributed web service in a managed environment
  - Much more opinionated than IaaS

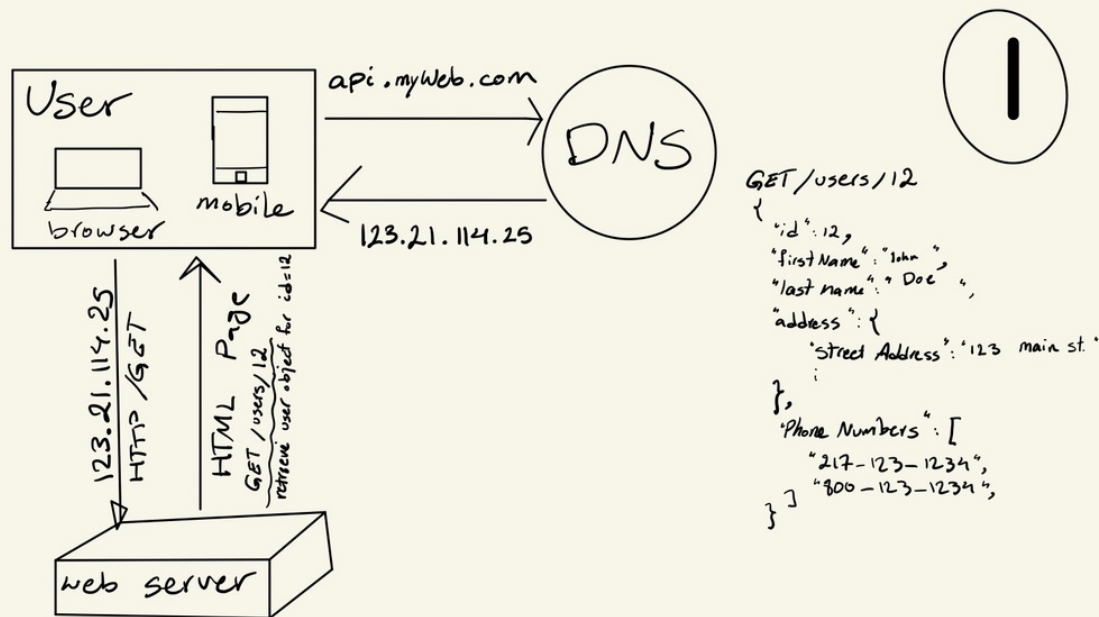
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# Platform as a Service

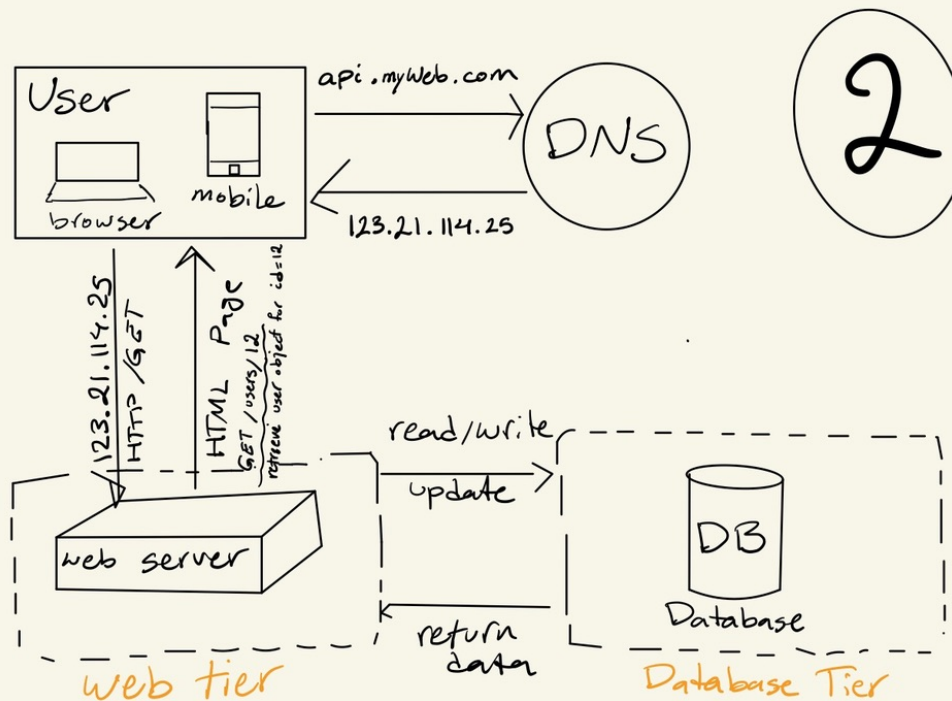
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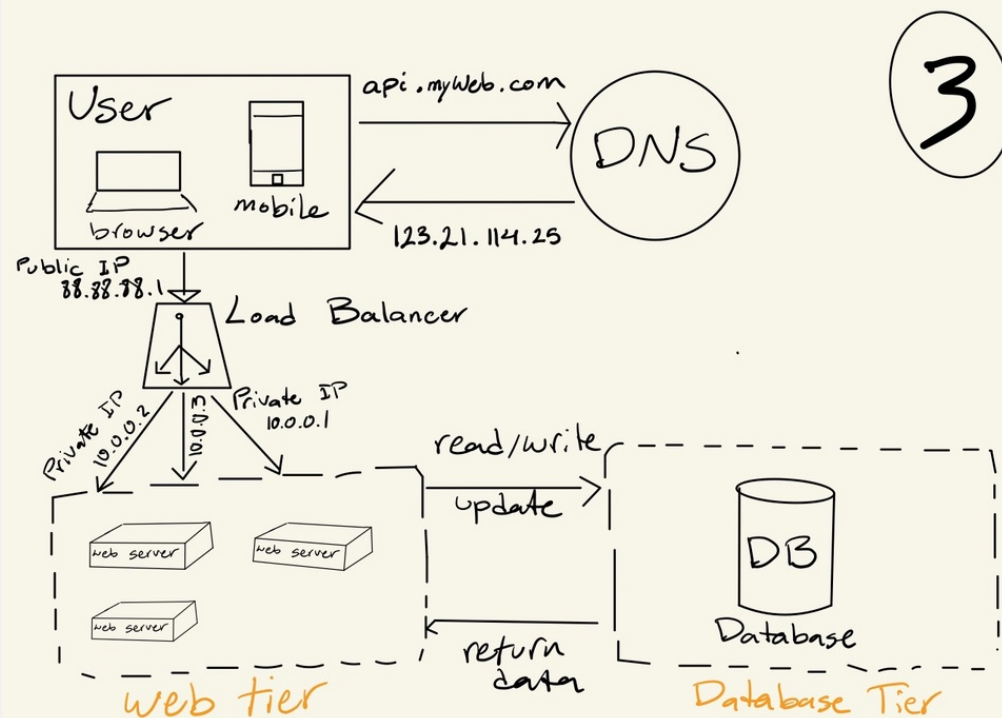
# Anatomy of a Web Service Application



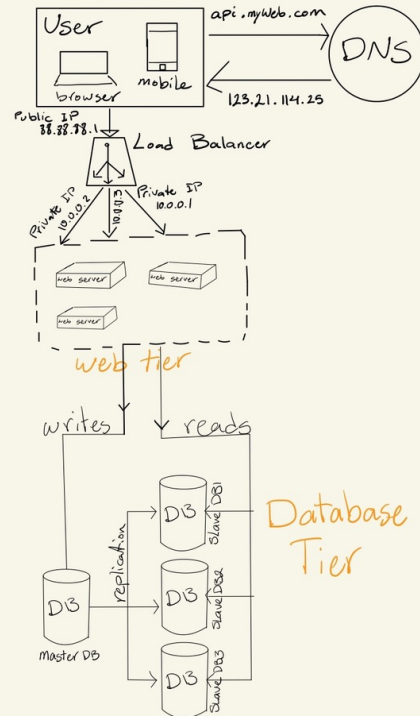
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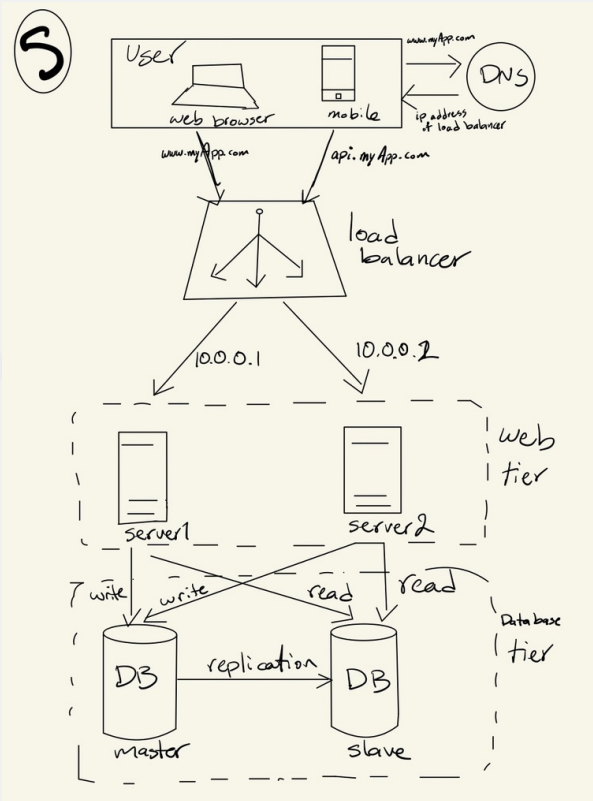
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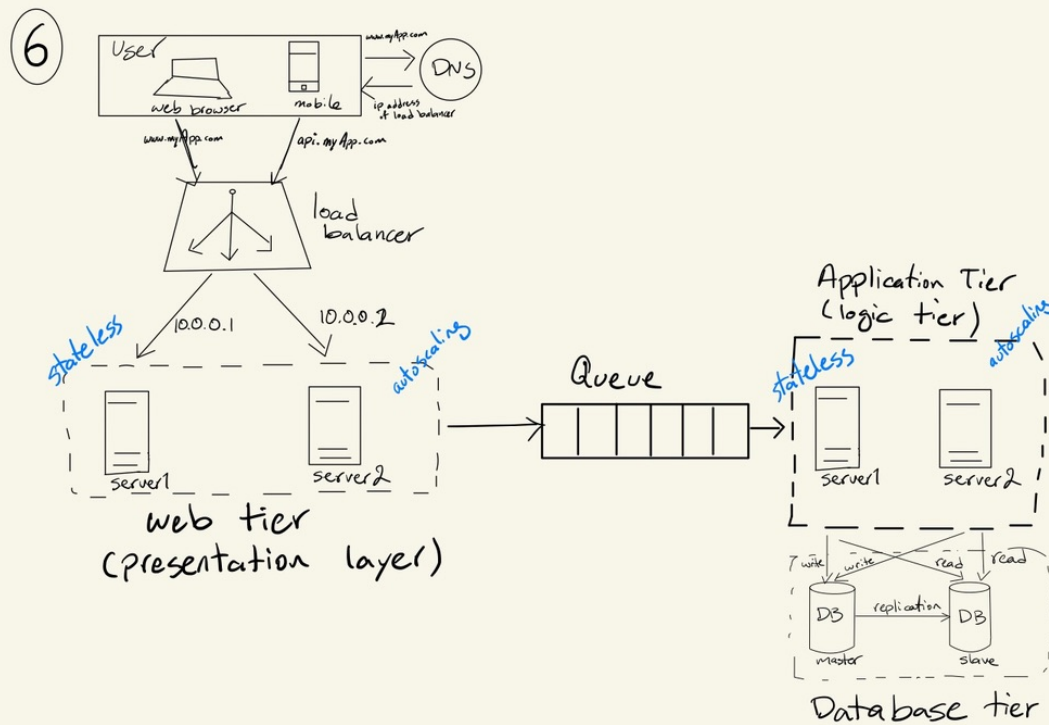


# Anatomy of a Web Service Application





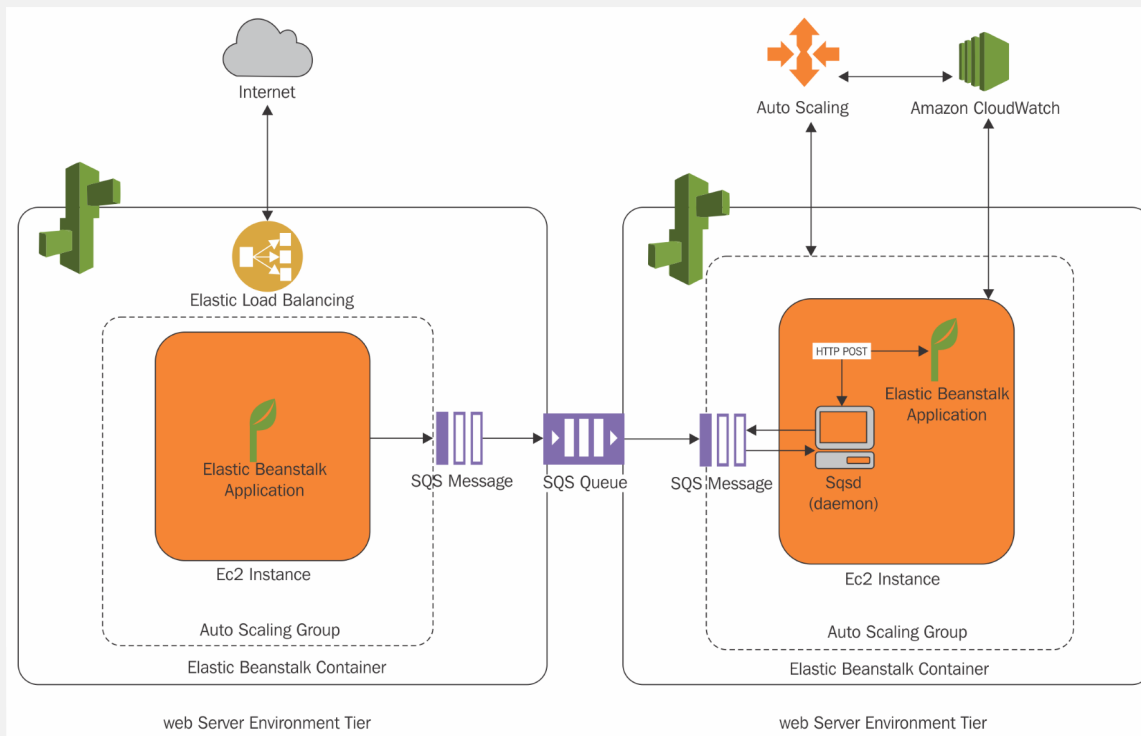
# Anatomy of a Web Service Application



# Platform as a Service


- Platform as a Service provides environments where all the machinery needed for the distributed application is provided by the cloud provider and managed by them
  - Autoscaling groups
  - Load balancers
  - Queues
  - Daemons managing the queues
  - Consistent data Storage solutions
    - SQL Databases
    - NoSQL solutions

# Platform as a Service



# Examples

- Microsoft Azure App Service
- Google App Engine
- Amazon Elastic BeanStalk
- Heroku
- IBM Cloud Foundry



AWS Elastic Beanstalk


See Your AWS Elastic Beanstalk Logs in LogDNA

+ Follow + I use this

Stacks	Followers	Votes
1.8K	1.5K	240

Pros of AWS Elastic Beanstalk

- ▲ 77 Integrates with other aws services
- ▲ 65 Simple deployment
- ▲ 44 Fast




Google App Engine

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Stacks	Followers	Votes
6.3K	4.6K	611

Pros of Google App Engine

- ▲ 143 Easy to deploy
- ▲ 108 Auto scaling
- ▲ 80 Good free plan



Microsoft Azure

Launch ML workloads in hyperspeed with cnvrg.io

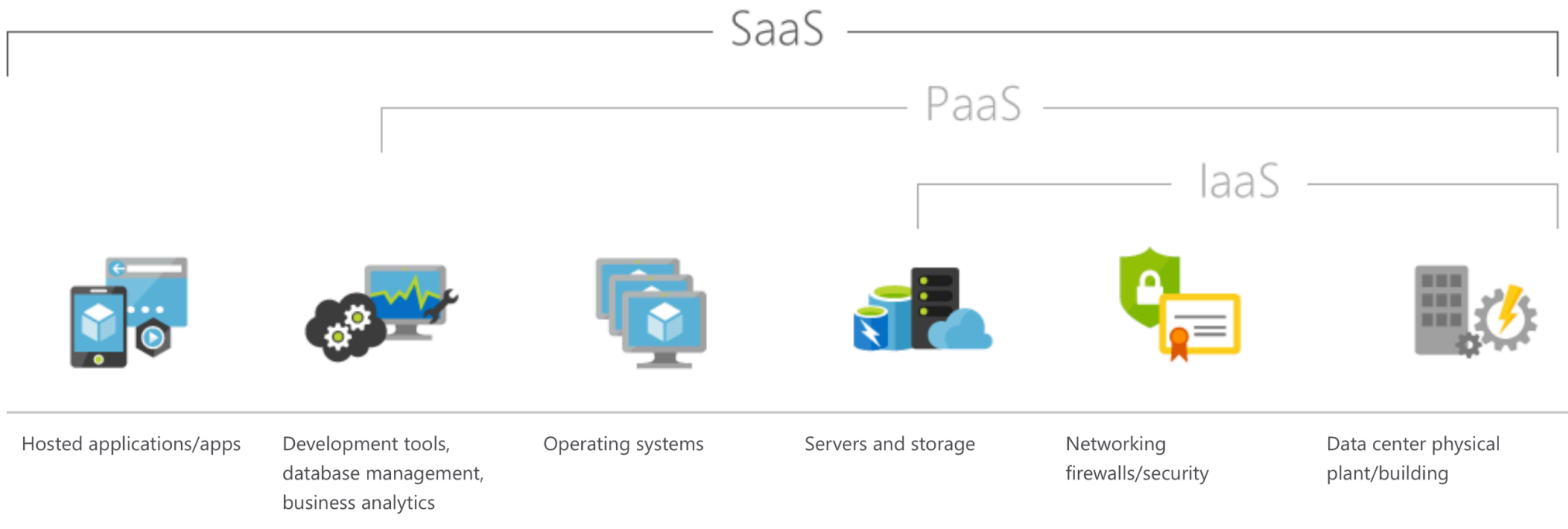
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Stacks	Followers	Votes
13.8K	7.8K	739

Pros of Microsoft Azure

- ▲ 111 Scales well and quite easy
- ▲ 93 Can use .Net or open source tools
- ▲ 79 Startup friendly

# SaaS in Perspective



*\* Image courtesy of Microsoft Azure*