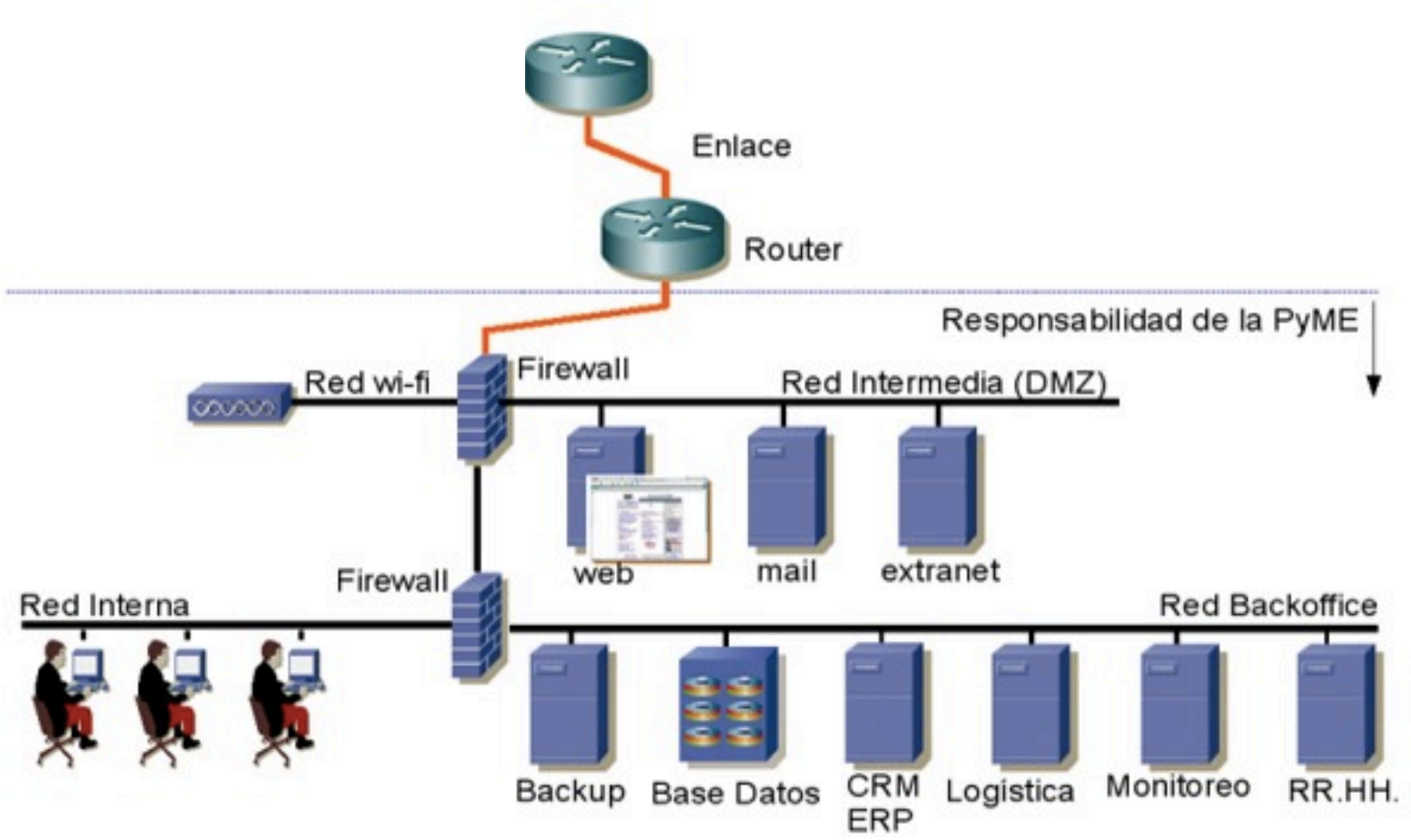
TU PROYECTO EN LA NUBE

ANDRES TORRUBIA

¿POR QUE SE LLAMA NUBE?



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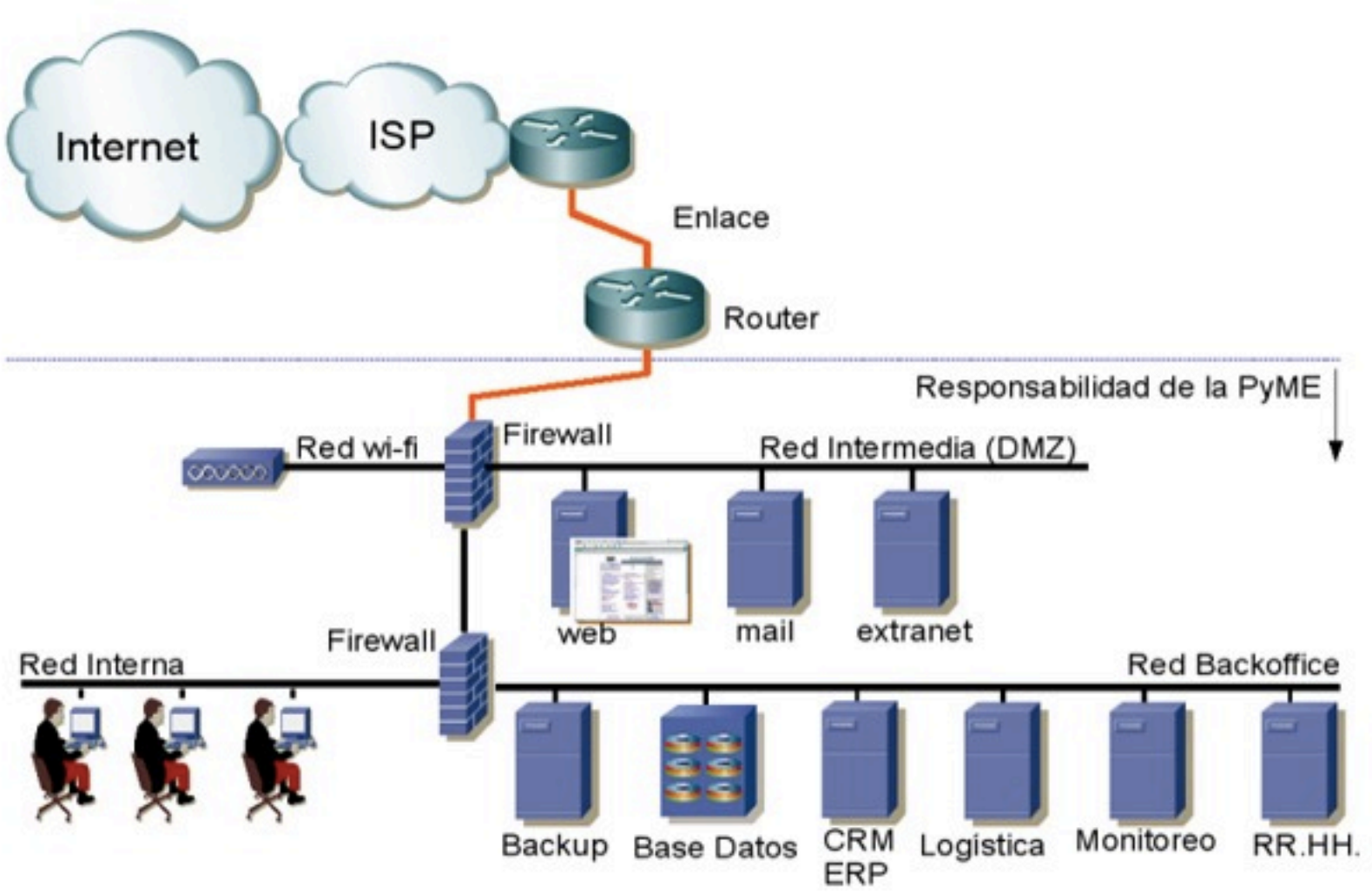
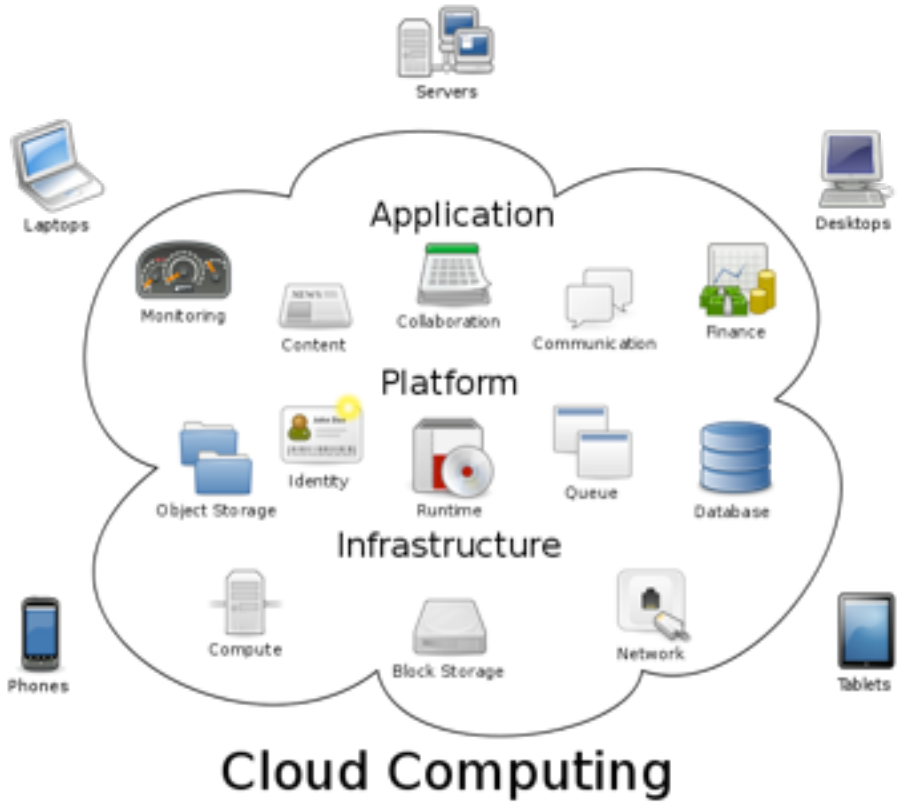


FROM WIKIPEDIA

Cloud computing is delivery of computing **as a service rather than a product**



LA NUBE

POSIBLEMENTE ES LA PALABRA MÁS DE MODA EN EL MUNDO DE IT EN ESTOS MOMENTOS

John McCarthy

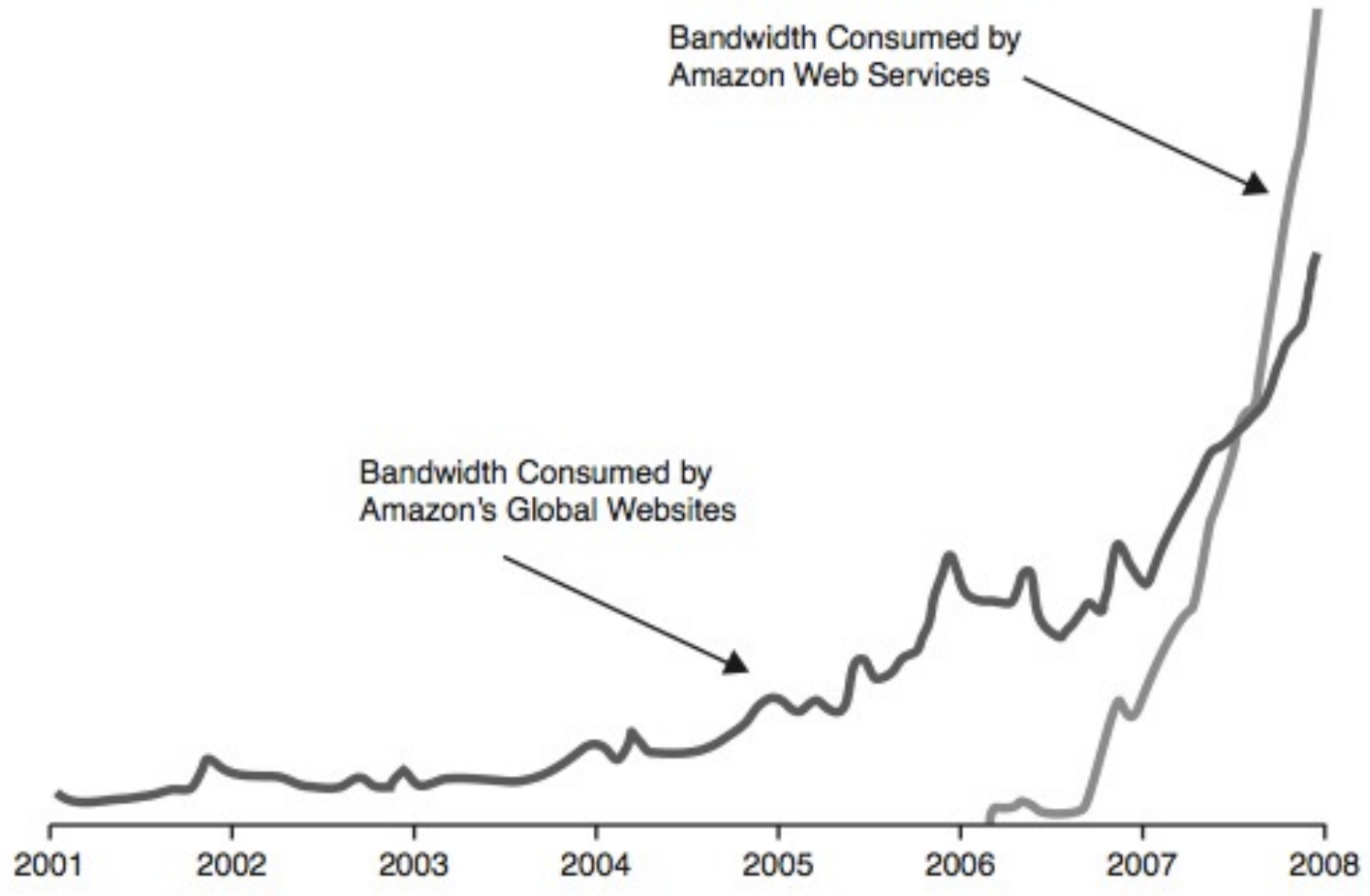
LOS 5 PRINCIPIOS BÁSICOS DE LA NUBE

1. Principio de disponibilidad: Todos los recursos de la nube estarán disponibles a todos los usuario
2. Principio de virtualización: La virtualización de los recursos asegurará una óptima utilización del hardware
3. Principio de elasticidad: Escalado elástico según las necesidades de cada momento
4. Principio de automatización: Creación/destrucción de nuevas máquinas virtuales
5. Principio de precio por uso: Los recursos son facturados sólo por su uso

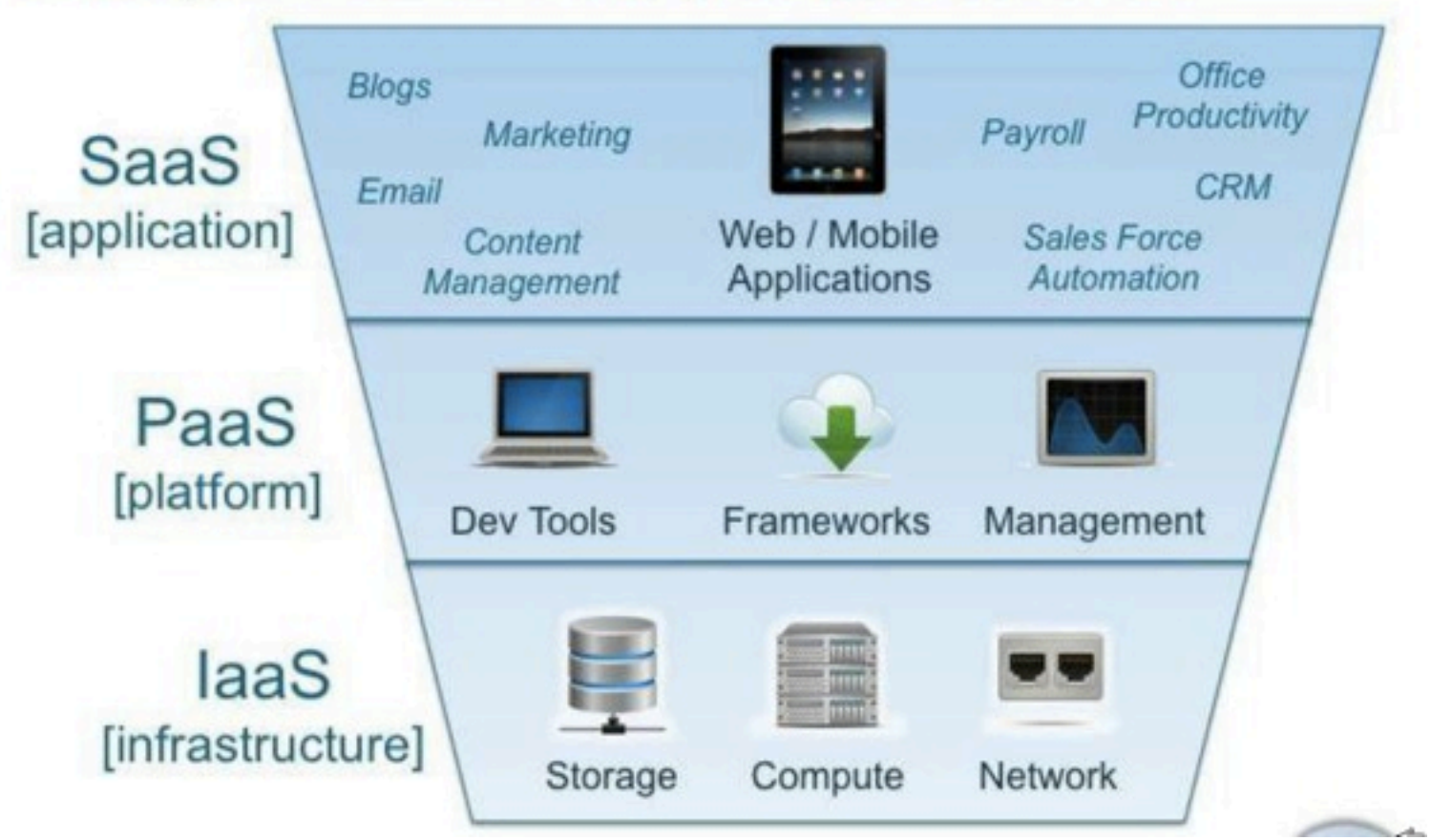
RESUMEN: LA NUBE ES…

Recursos infinitos que pagas según usas

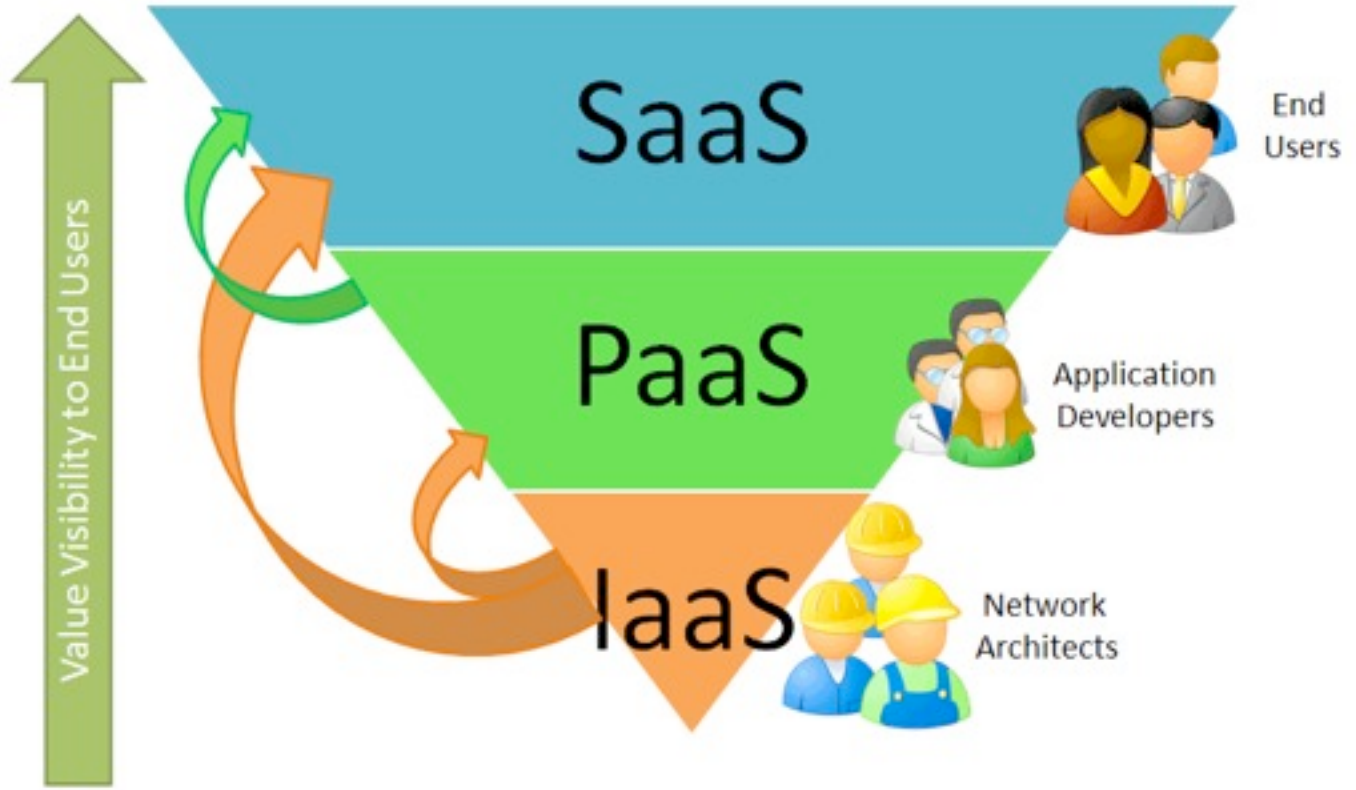
LA NUBE ESTA DE MODA



TIPOS

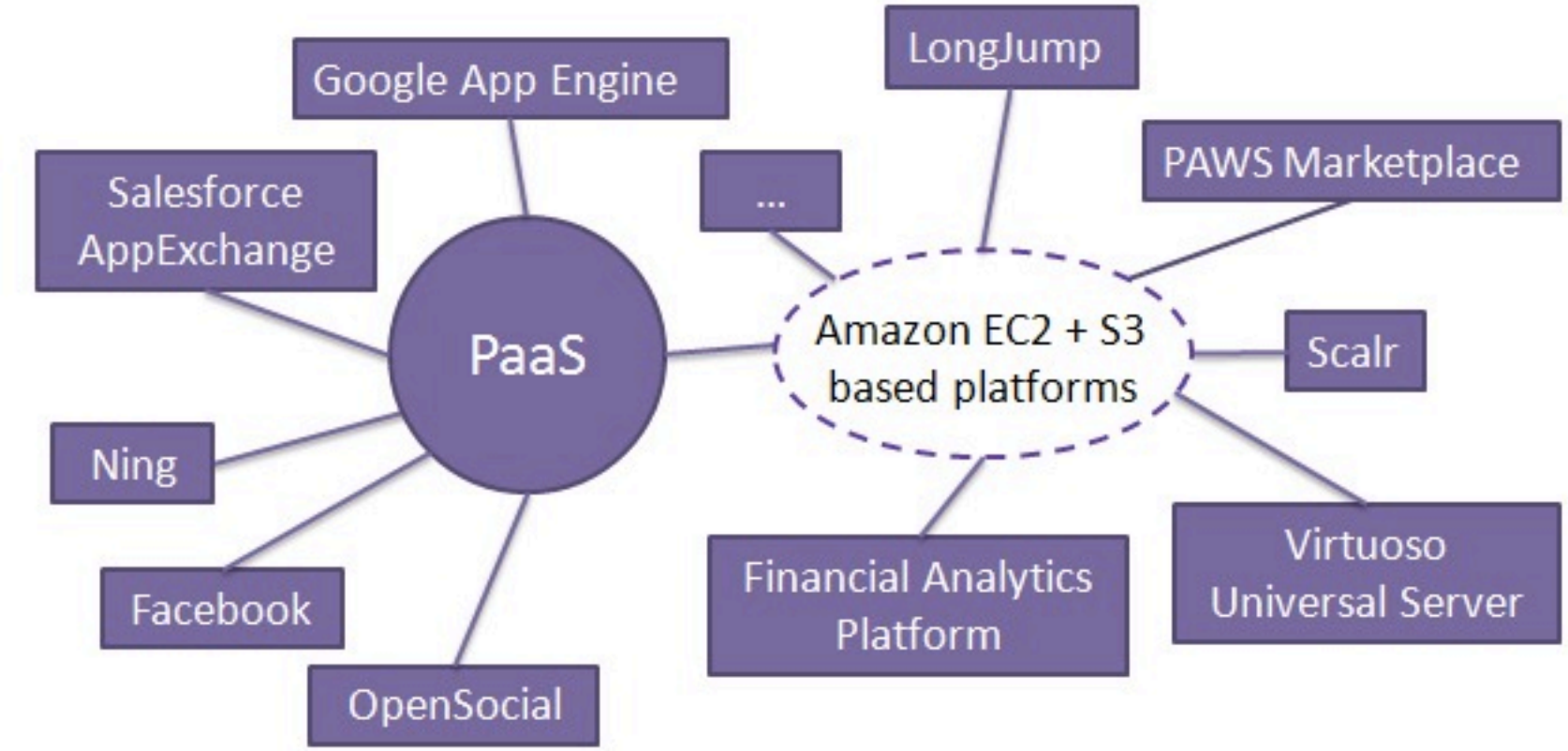

SaaS
[application]
Blogs
Marketing
Email
Content Management
Web / Mobile Applications
Payroll
Office Productivity
CRM
Sales Force Automation
PaaS
[platform]
Dev Tools
Frameworks
Management
IaaS
[infrastructure]
Storage
Compute
Network

TIPOS (DE USUARIOS)



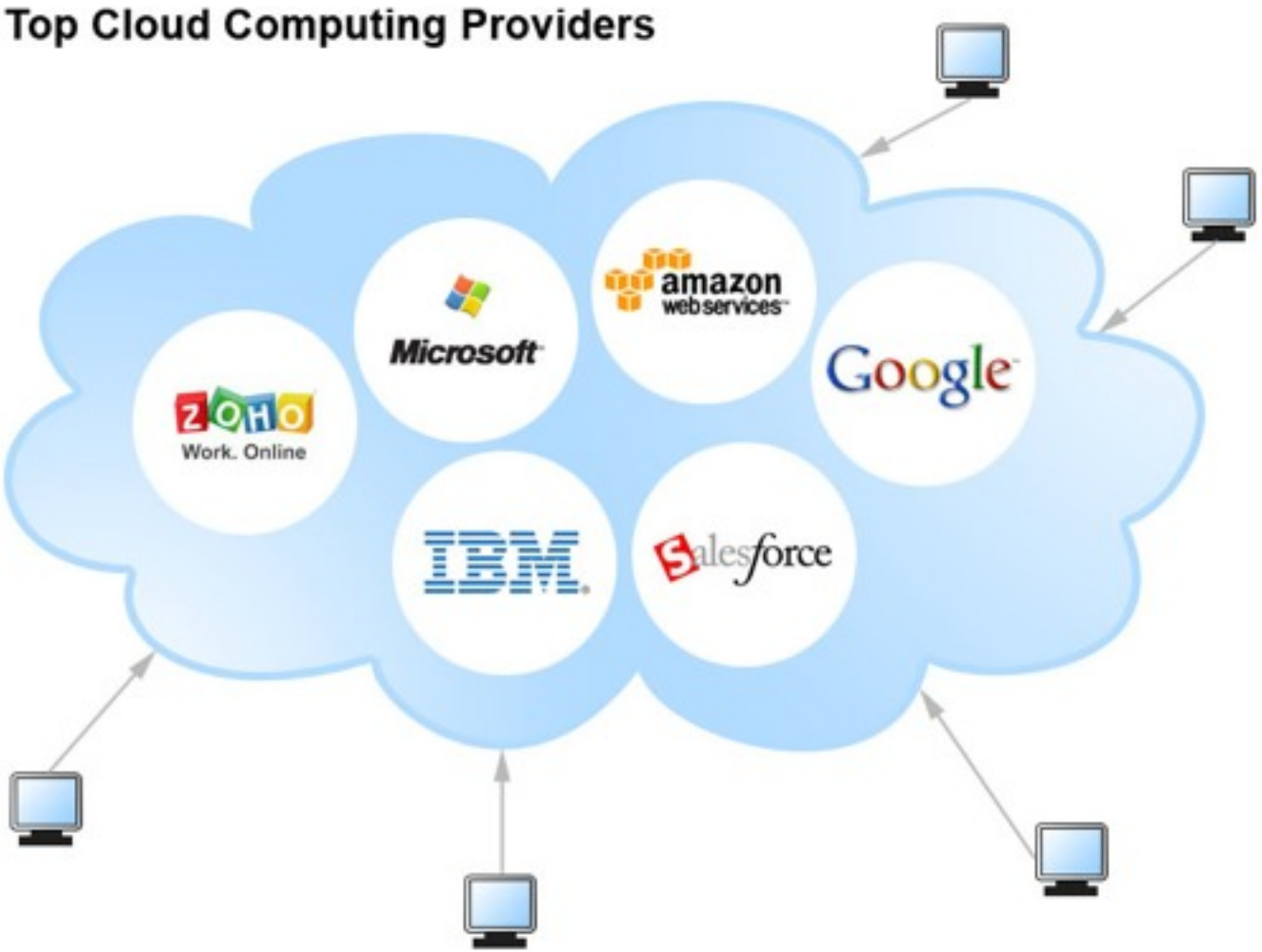
SOFTWARE AS A SERVICE

PLATFORM AS A SERVICE



INFRASTRUCTURE AS A SERVICE

PROVEEDORES



GOOGLE: APP ENGINE

Plataformas:

- JAVA, Python o GO

Solución integrada verticalmente:

- BBDD: Datastore de Google

EJEMPLO

PRECIOS APP ENGINE

Billable Resource Unit Cost

The cost for computing resources is as follows:

Resource	Unit	Unit cost
Outgoing Bandwidth	gigabytes	$0.12
Frontend Instances	Instance hours	$0.04*
Discounted Instances	Instance hours	$0.025*
Backend Instances (B1 class)	Hourly per instance	$0.08
Backend Instances (B2 class)	Hourly per instance	$0.16
Backend Instances (B4 class)	Hourly per instance	$0.32
Backend Instances (B8 class)	Hourly per instance	$0.64
Stored Data (Blobstore)	gigabytes per month	$0.13
Stored Data (Datastore)	gigabytes per month	$0.24
Stored Data (Task Queue)	gigabytes per month	$0.24
Channel	Channel opened	$0.00001 ($0.01/100 channels)
Recipients Emailed	email	$0.0001
XMPP	XMPP stanzas	$0.000001 ($0.10/100,000 stanzas)

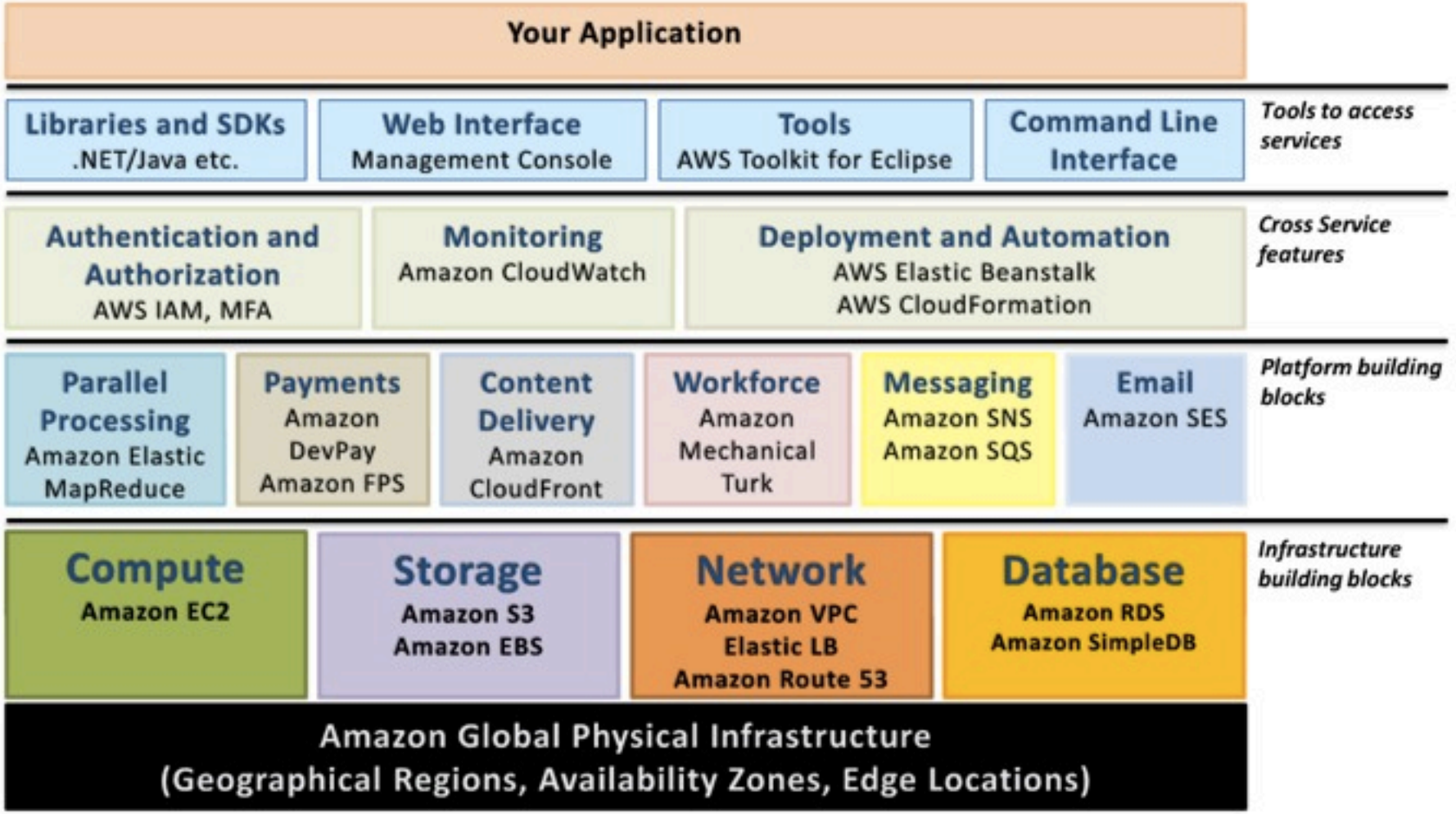
ZEND: PHPCLOUD

PHPCLOUD

- En Beta
- Plataforma: PHP + MySQL

EJEMPLO

AMAZON: AWS


Your Application
Libraries and SDKs
.NET/Java etc.
Web Interface
Management Console
Tools
AWS Toolkit for Eclipse
Command Line Interface
Tools to access services
Authentication and Authorization
AWS IAM, MFA
Monitoring
Amazon CloudWatch
Deployment and Automation
AWS Elastic Beanstalk
AWS CloudFormation
Cross Service features
Parallel Processing
Amazon Elastic MapReduce
Payments
Amazon DevPay
Amazon FPS
Content Delivery
Amazon CloudFront
Workforce
Amazon Mechanical Turk
Messaging
Amazon SNS
Amazon SQS
Email
Amazon SES
Platform building blocks
Compute
Amazon EC2
Storage
Amazon S3
Amazon EBS
Network
Amazon VPC
Elastic LB
Amazon Route 53
Database
Amazon RDS
Amazon SimpleDB
Infrastructure building blocks
Amazon Global Physical Infrastructure
(Geographical Regions, Availability Zones, Edge Locations)

PRECIOS AMAZON EC2

Region: EU (Ireland)

	Linux/UNIX Usage	Windows Usage
Standard On-Demand Instances		
Small (Default)	$0.095 per hour	$0.12 per hour
Large	$0.38 per hour	$0.48 per hour
Extra Large	$0.76 per hour	$0.96 per hour
Micro On-Demand Instances		
Micro	$0.025 per hour	$0.035 per hour
Hi-Memory On-Demand Instances		
Extra Large	$0.57 per hour	$0.62 per hour
Double Extra Large	$1.14 per hour	$1.24 per hour
Quadruple Extra Large	$2.28 per hour	$2.48 per hour
Hi-CPU On-Demand Instances		
Medium	$0.19 per hour	$0.29 per hour
Extra Large	$0.76 per hour	$1.16 per hour
Cluster Compute Instances		
Quadruple Extra Large	N/A*	N/A*
Cluster GPU Instances		
Quadruple Extra Large	N/A*	N/A*

* Cluster Compute and Cluster GPU Instances are currently only available in the US East (Virginia) Region.

AMAZON BEANSTALK

Plataforma: JAVA + TOMCAT

BBDD:

Q: What database solutions can I use with Elastic Beanstalk?

Elastic Beanstalk does not restrict you to any specific data persistence technology. You can chose to use Amazon RDS, Amazon SimpleDB, or use Microsoft SQL Server, Oracle, or other relational databases running on EC2.

Q: How do I setup a database for use with Elastic Beanstalk?

You do this in the same way you would with any Java application. First, you create the database. The quickest way to do this is by using the AWS management console to create an Amazon RDS database. Second you provide the information the application needs to connect to the database typically as part of a database connection string. Usually, this is done by specifying the connection string in one of the application configuration files.

PRECIOS BEANSTALK

Service and Resource	Unit	Cost Breakout	Cost
Amazon EC2 t1.micro instance	1	$0.02/hr * 24 hours * 30 days	$14.40
Elastic Load Balancer	1	$0.025/hr * 24 hours * 30 days	$18.00
Elastic Load Balancer Data Processing	15GB	$0.008/GB * 15GB	$ 0.12
Elastic Block Store volume	8GB	$0.10/GB * 8GB	$ 0.80
S3 Storage for WAR File and Access	1GB	$0.14/1GB + $0.01 for<1k PUTs, <10k GETs	$ 0.15
Bandwidth In and Out	15GB	Inbound is free, 15 GB out * $0.12	$ 1.80
		Total Monthly Cost without Free Tier	**$35.27**
		Total Monthly Cost with Free Tier	**$0**

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What

e.g. plumbers

Where

city, state or zipcode

Examples: Drafting services in Denver, Patio door in Bronx, Chimney in Dallas , See more »

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All the pros in our network are screened and approved through our extensive partnership program. In addition, we rank the pros in our network based on their profile information, license status, background checks and more.

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Once you send us your request, we'll immediately connect you with the right pro. The majority of the estimate requests we receive are handled in less than 24 hours.

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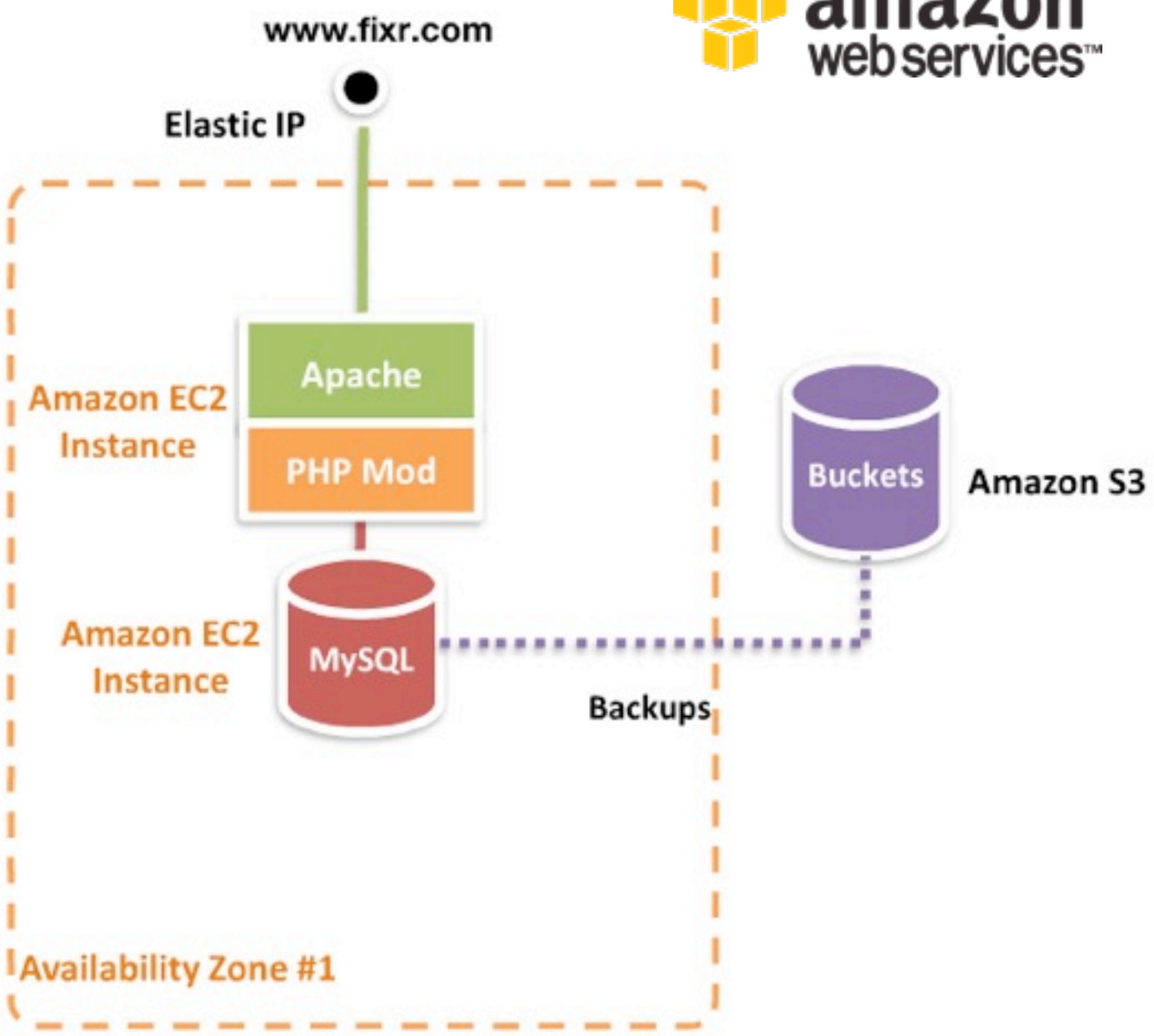

FIXR

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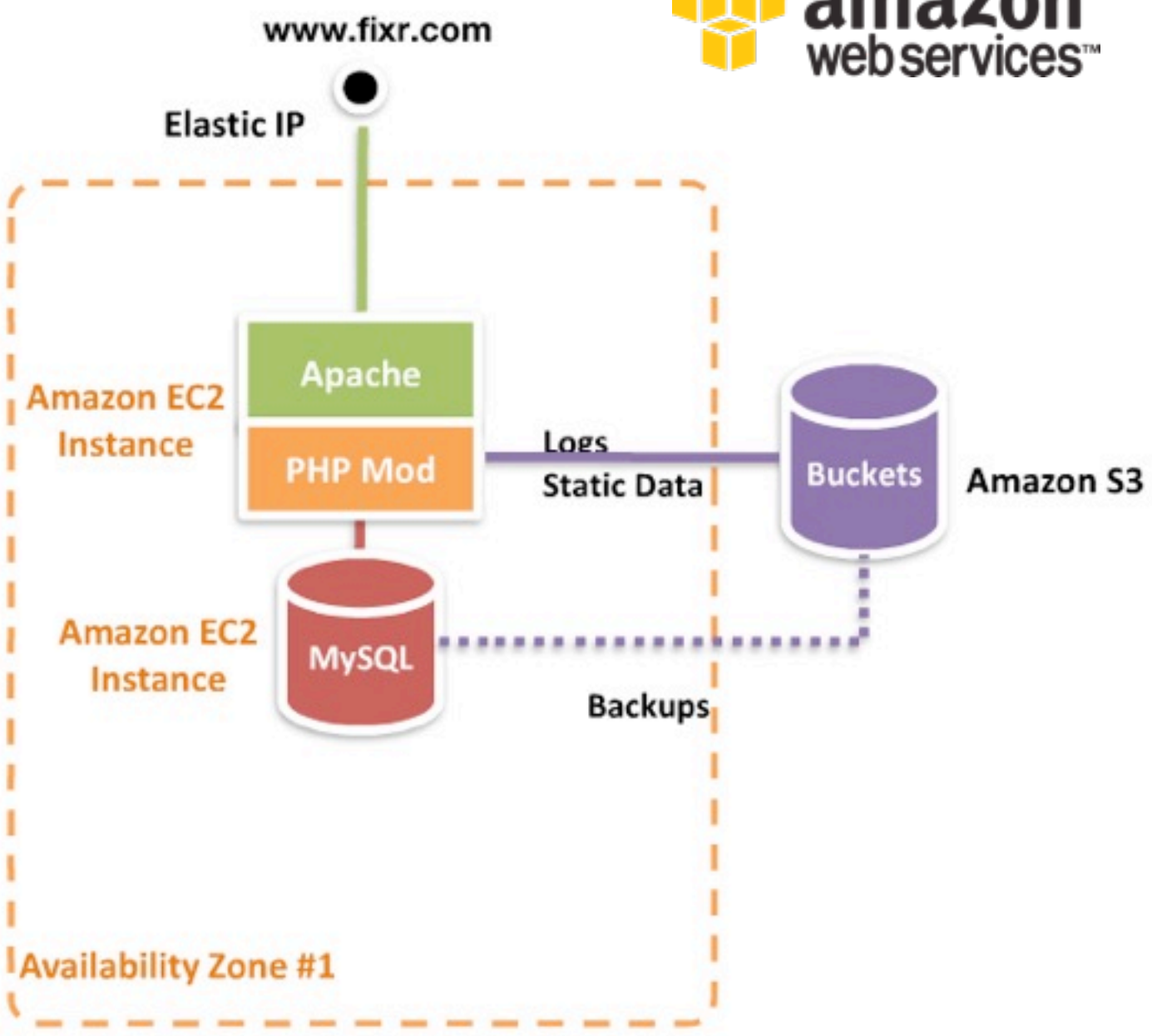

FIXR

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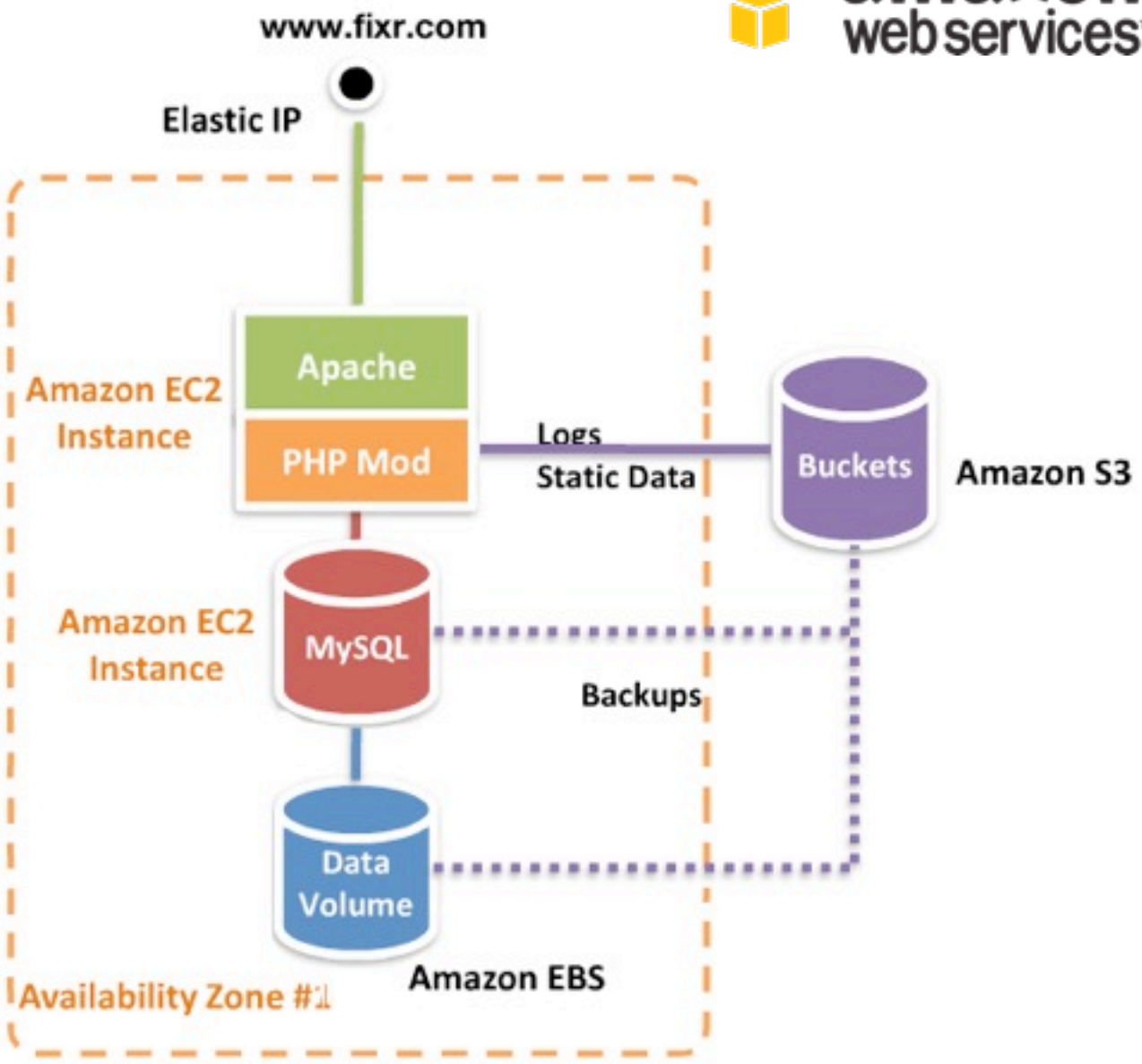
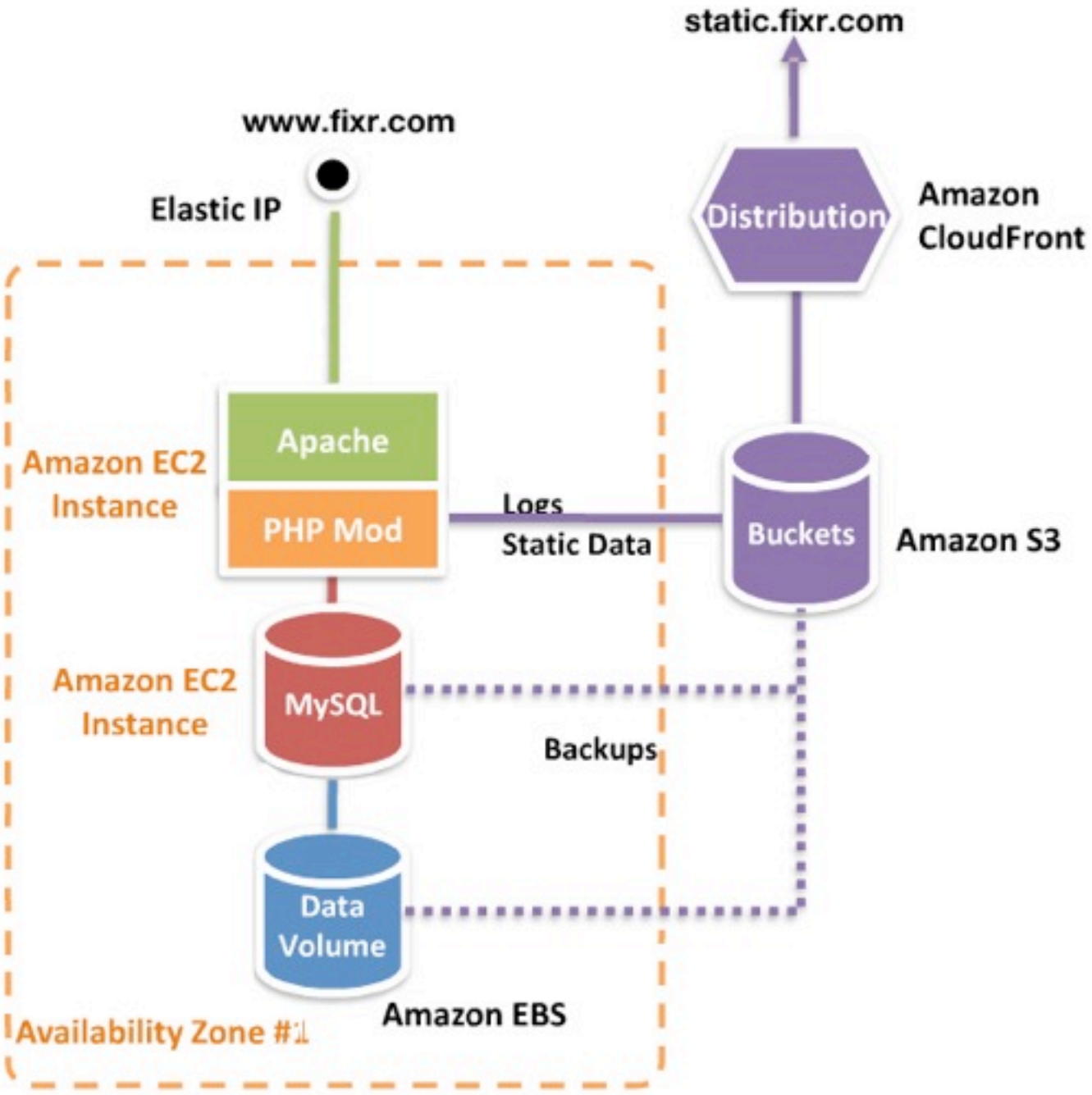


FIXR


static.fixr.com
www.fixr.com
Elastic IP
Distribution
Amazon CloudFront
Amazon EC2 Instance
Apache
PHP Mod
Logs
Static Data
Buckets
Amazon S3
Amazon EC2 Instance
MySQL
Backups
Data Volume
Amazon EBS
Availability Zone #1

FIXR

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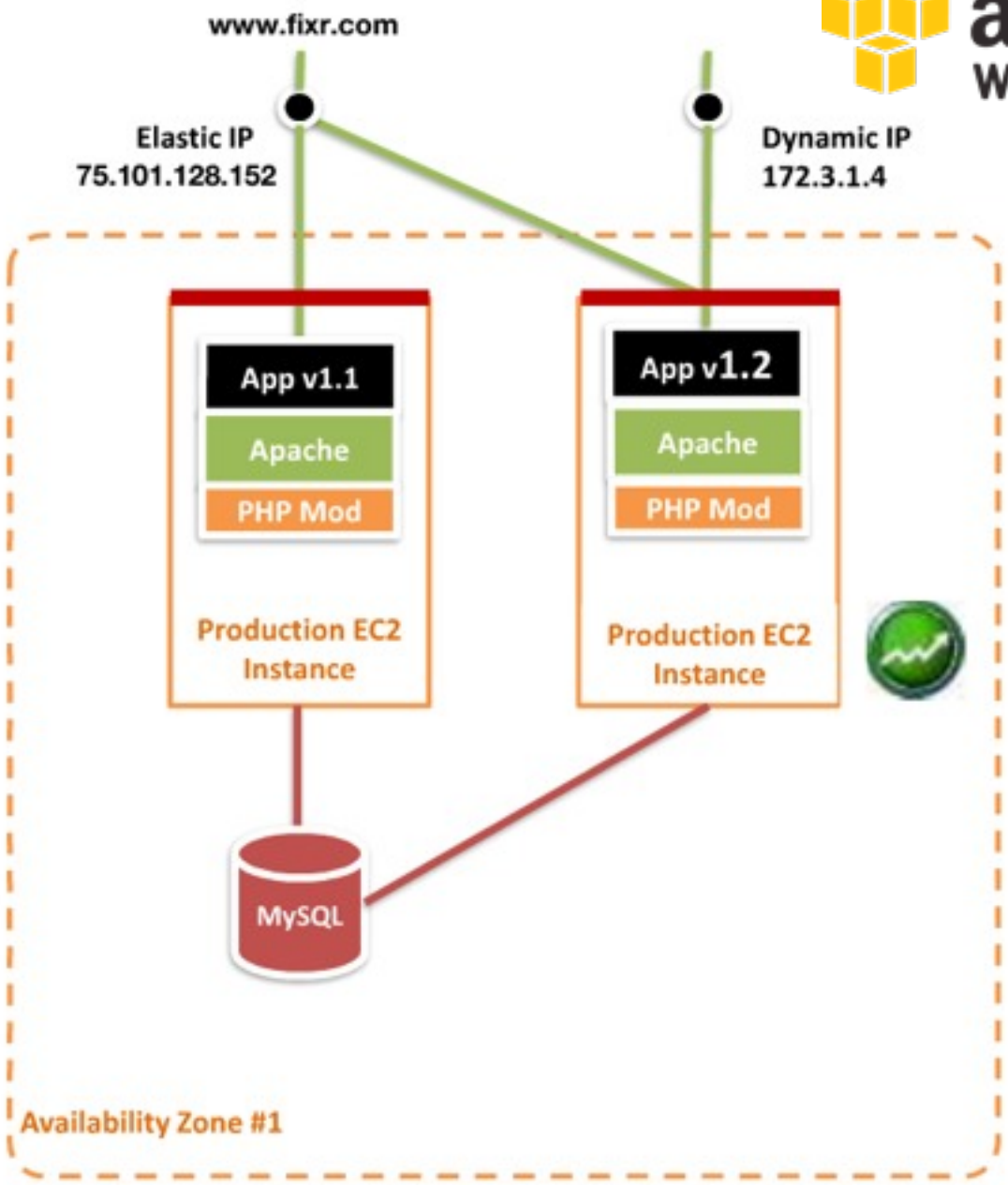

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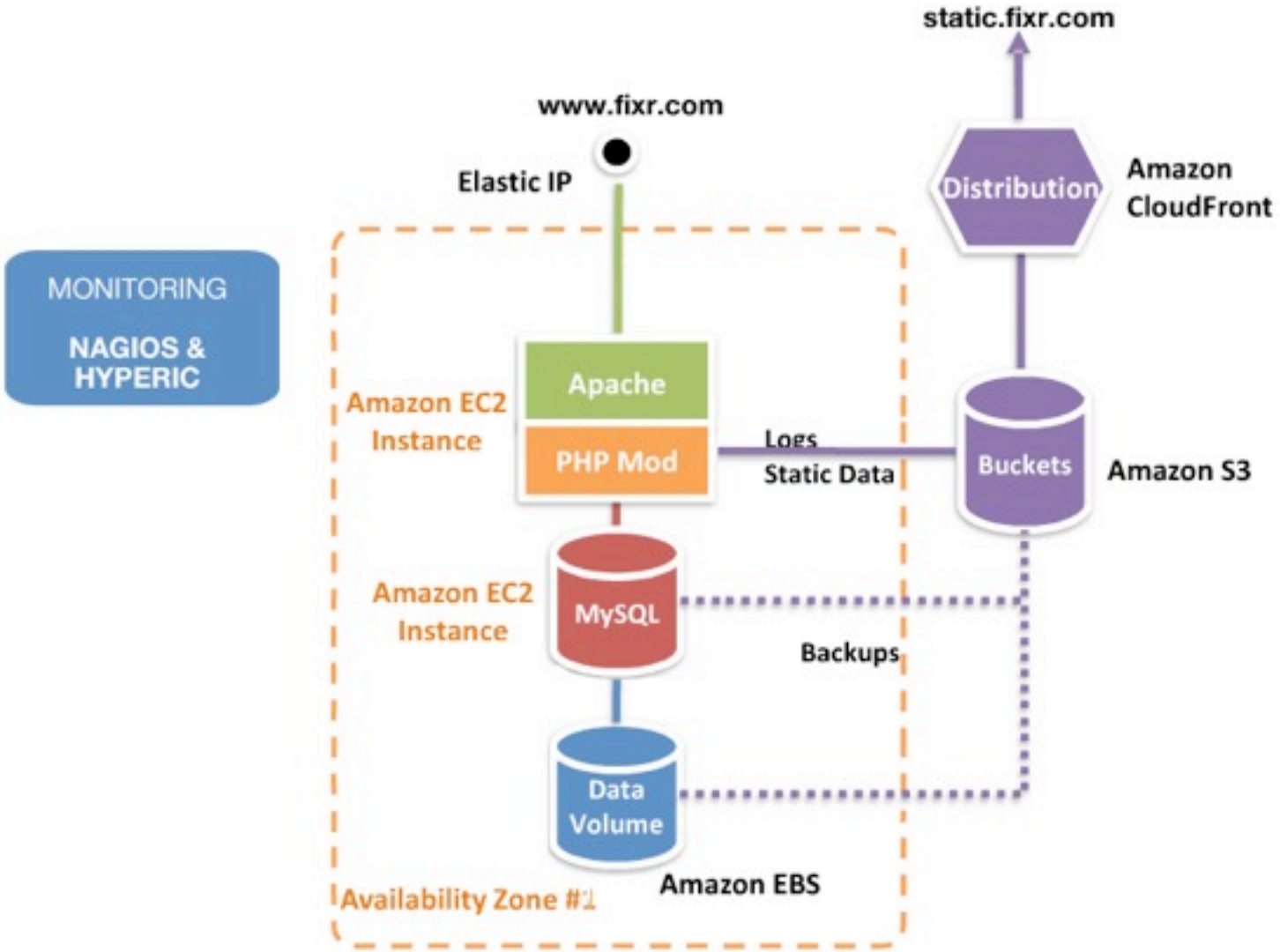

FIXR

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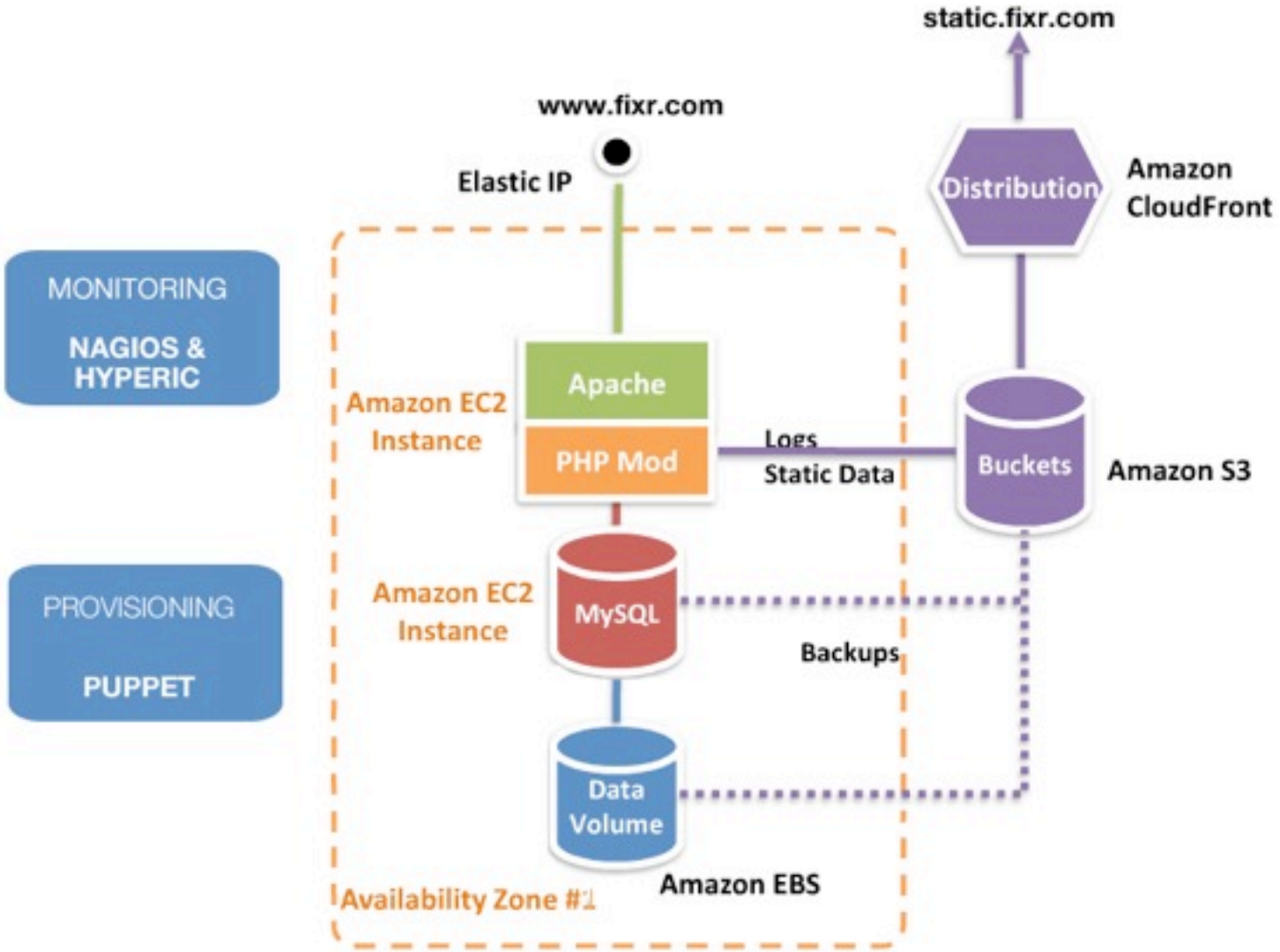
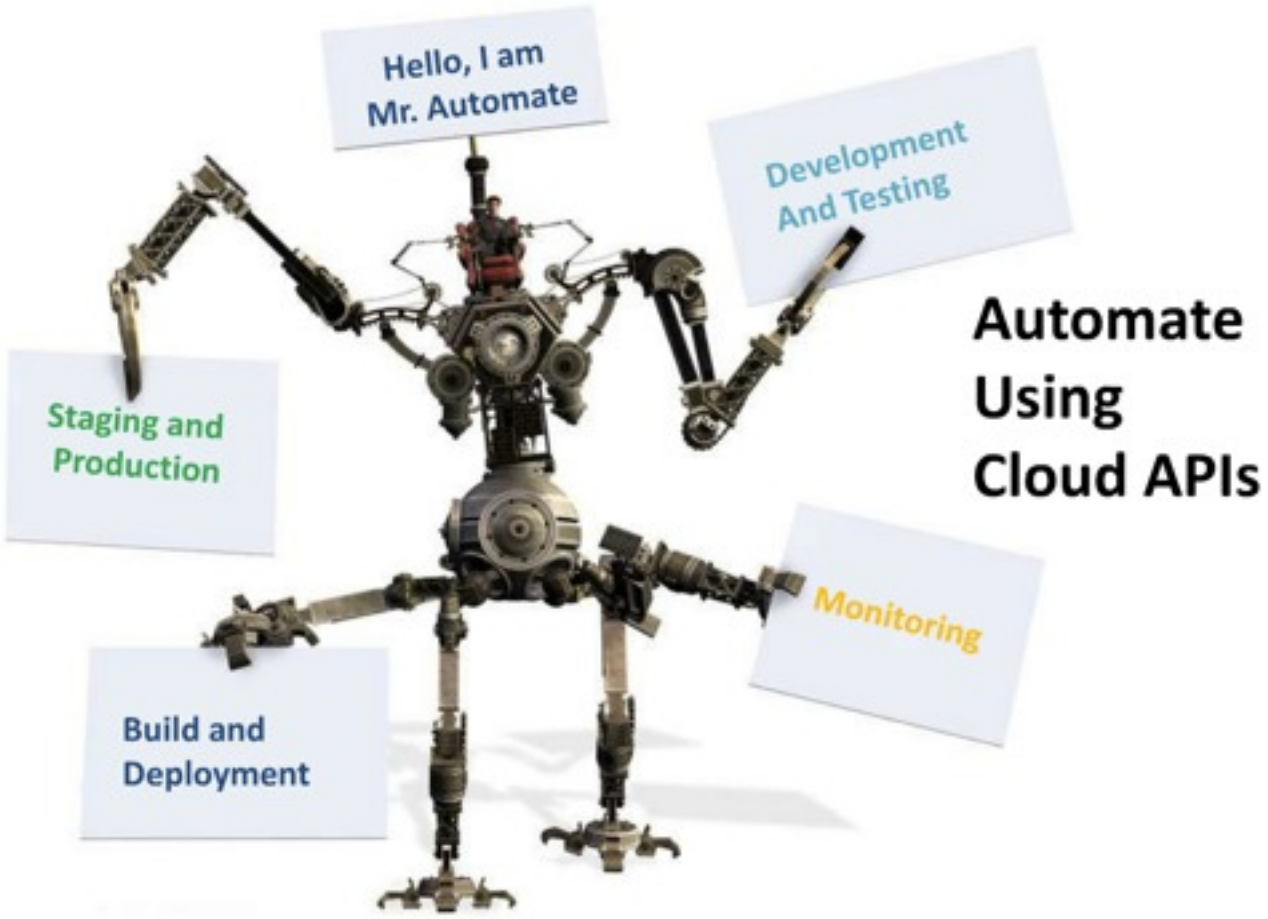
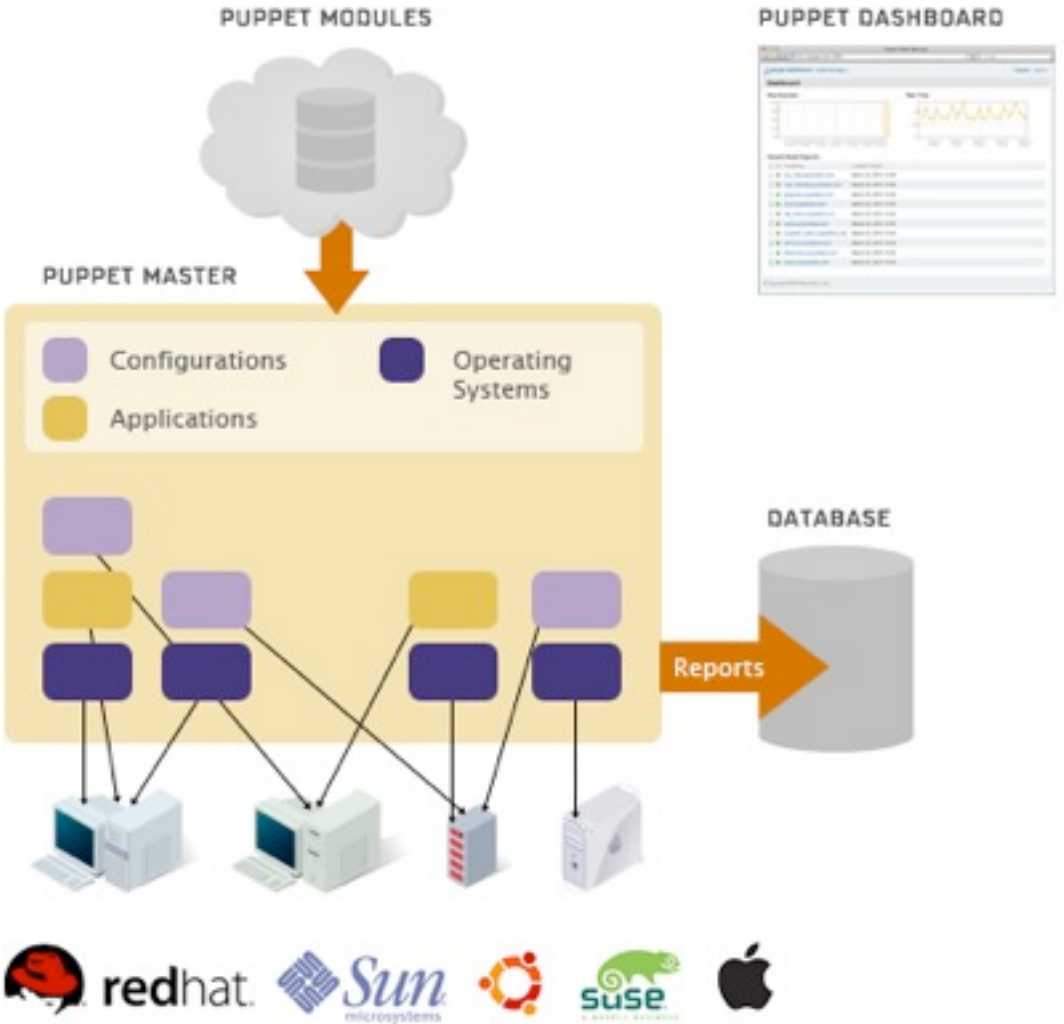


AUTOMATION


Hello, I am
Mr. Automate
Development
And Testing
Staging and
Production
Monitoring
Build and
Deployment
Automate
Using
Cloud APIs

CONTINUOUS BUILD & DELIVERY

PUPPET


PUPPET MODULES
PUPPET DASHBOARD
PUPPET MASTER
Configurations
Operating Systems
Applications
DATABASE
Reports
redhat
Sun
microsystems
suse

PUPPET

How Puppet Works

1 Define: With Puppet's declarative language you design a graph of relationships between resources within reusable modules. These modules define your infrastructure in its desired state.

2 Simulate: With this resource graph, Puppet is unique in its ability to simulate deployments, enabling you to test changes without disruption to your infrastructure.

4 Report: Puppet reports track relationships between components and all changes, allowing you to keep up with security and compliance mandates. And with the open API you can integrate Puppet with third party monitoring tools.

3 Enforce: Puppet compares your system to the desired state as you define it, and automatically enforces it to the desired state ensuring your system is in compliance.

NEXT GENERATION CLOUD

NEXT GENERATION CLOUD

~ CLOUD 1.0 + P2P

~ http://setiathome.berkeley.edu/

Imagine leaving your computer on at night and getting paid by a public cloud provider for your extra processor cycles…

NEXT GENERATION CLOUD

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The End

Q&A

¿TE APASIONA ESTO?

¡Trabaja con nosotros!

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andres@fixr.com