

INTRODUCTION TO AWS

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LINUX ADMINISTRATOR AND CERTIFIED SOLUTIONS ARCHITECT AWS

ROADMAP

- HISTORY OF AWS
 - Elastic computing
 - Introduction to the AWS products
 - Regions and Availability Zones
 - Signing up for AWS
 - AWS Free usage tier
 - Introduction AWS management console

HISTORY OF AWS

- **2003 – Chris Pinkman & Benjamin Black present a paper on what Amazon's own internal infrastructure should look like.**
- **Suggested selling it as a service and prepared a business case.**
- **SQS officially launched in 2004**
- **AWS Officially launched in 2006**

HISTORY OF AWS

- **2007 over 180,000 developers on the platform**
- **2010 all of amazon.com moved over**
- **2012 First Re-Invent Conference**
- **2013 Certifications Launched**
- **2014 Committed to achieve 100% renewable energy usage for its global footprint**

Amazon Elastic Compute Cloud

Amazon EC2 = Virtual Machine

Amazon EC2: on-demand compute power

- Obtain and boot new server instances in minutes
- Quickly scale capacity up or down
- Servers from \$0.02 (2 cents) per hour
- On Demand, Reserved, and Spot Pricing

Key features:

- Support for Windows, Linux, FreeBSD, and OpenSolaris
- Supports all major web and application platforms
- Deploy across Availability Zones for reliability
- monitors status and usage

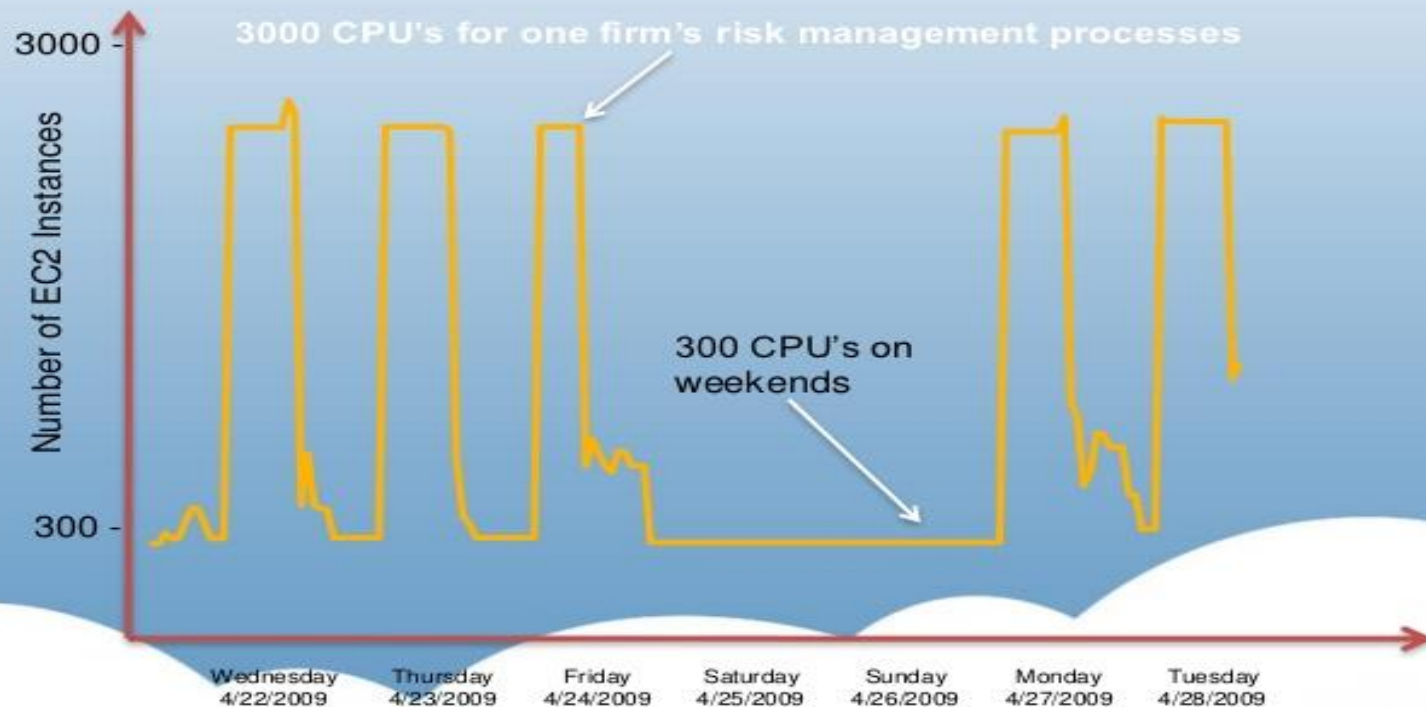
Common Use Cases

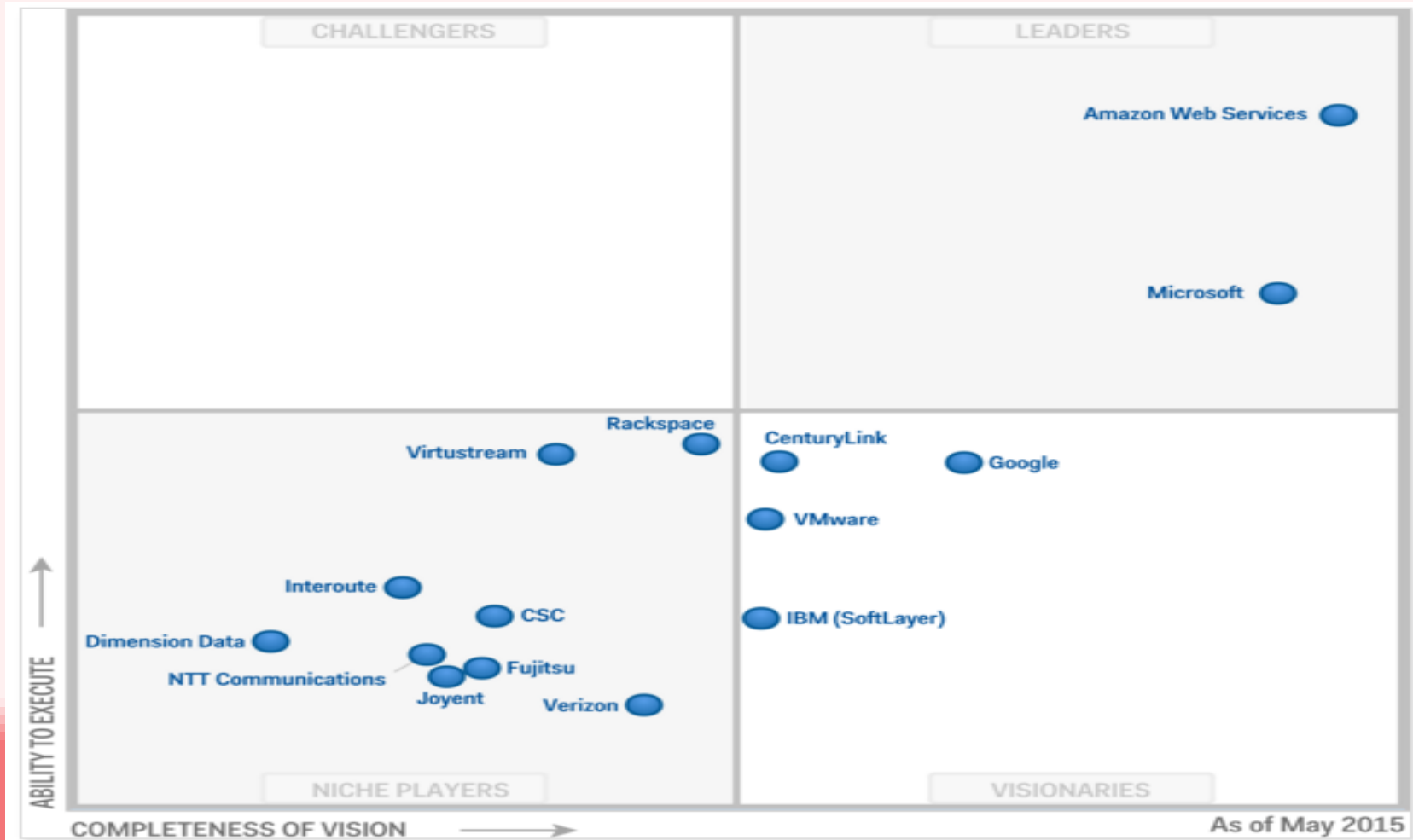
- Web site hosting
- Application hosting/SaaS hosting
- Mobile and Social Applications
- Internal IT application hosting
- Content delivery and media distribution
- High performance computing, batch data processing, and large scale analytics
- Storage, backup, and disaster recovery
- Development and test environments

A rectangular graphic with a blue gradient background, transitioning from a lighter blue at the top to a darker blue at the bottom. The bottom of the graphic features a white, stylized cloud pattern. The text "On-Demand" is centered in the middle of the graphic in a black, sans-serif font.

On-Demand

Example: Wall Street App on Amazon EC2





REGIONS

Regions:

- Each Amazon EC2 region is designed to be completely isolated from the other Amazon EC2 regions. This achieves the greatest possible fault tolerance and stability.
- When you view your resources, you'll only see the resources tied to the region you've specified. This is because regions are isolated from each other, and we don't replicate resources across regions automatically.

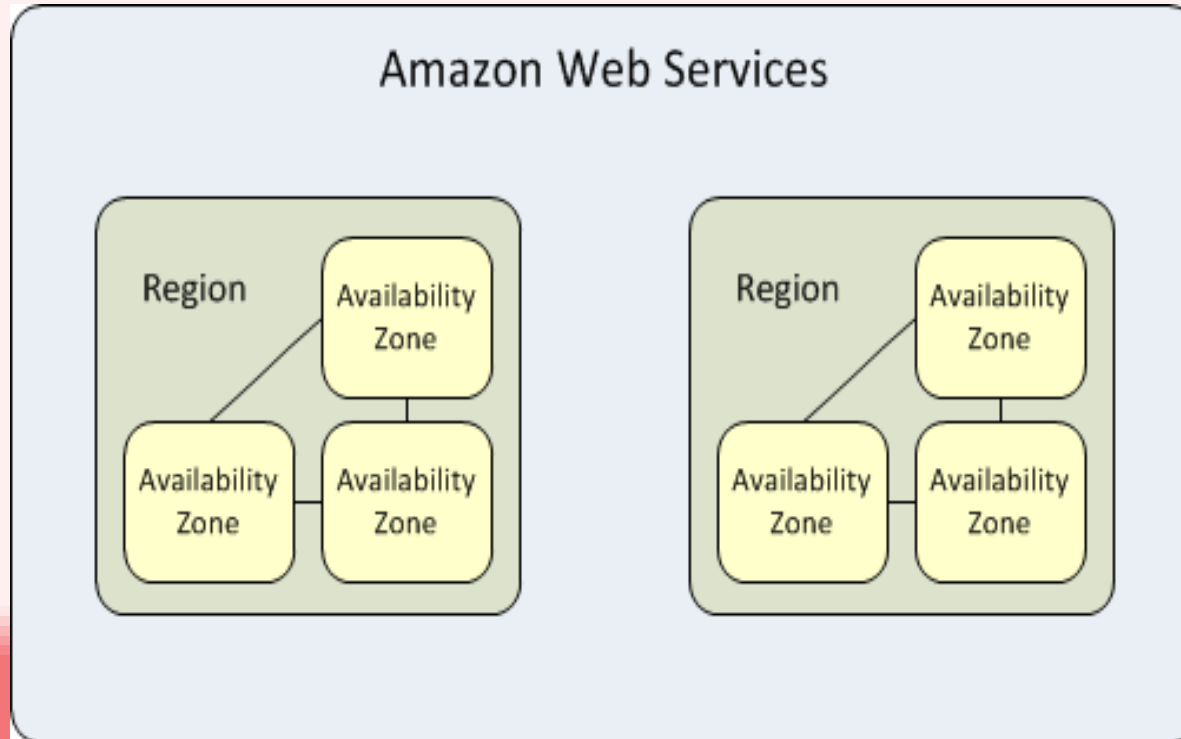
Availability Zones

Availability Zones:

When you launch an instance, you can select an Availability Zone or let us choose one for you. If you distribute your instances across multiple Availability Zones and one instance fails, you can design your application so that an instance in another Availability Zone can handle requests



AVAILABILITY ZONES



AWS FREE TIER

Open the below link to see free tier offers provided by AWS.

<https://aws.amazon.com/free/>

Thank you