



AWS – Overview

April 2016

Ground Rules for Face-to-face Classrooms



Ground Rules for Virtual Classrooms

Participate actively in each session

Share experiences and best practices

Bring up challenges, ask questions

Discuss successes

Respond to whiteboards, polls, quizzes, chat boxes

Hang up if you need to take an urgent phone call, don't put this call on hold

Communicate professionally with others

Mute when you're not speaking

Wait for others to finish speaking before you speak

Each time you speak, state your name

Build on others' ideas and thoughts

Disagreeing is OK –with respect and courtesy

Be on time for each virtual session

As a best practice...be just a few minutes early!

Module at a Glance

SME to provide the details required in the table.

Target Audience:	
Course Level:	<i>Basic</i>
Duration (in hours):	30 mins
Pre-requisites, if any:	NA
Post-requisites, if any:	<i>Submit Session Feedback</i>
Relevant Certifications:	None

Introductions (for Virtual Classrooms)

SME to provide the
photos and names of
the facilitators.

Business Photo

Facilitator
Name
Role

Business Photo

Moderator
Name
Role

Course Map

- 1 The History so far
- 2 AWS Global Infrastructure
- 3 Concepts & Components – Part 1
- 4 Concepts & Components – Part 2
- 5 Concepts & Components – Part 3
- 6 AWS Icons

Module Objectives

Note to the SME : Please provide the module Objectives or validate the partially updated content



What you will learn

At the end of this module, you will learn:

- What is AWS

What you will be able to do

At the end of this module, you be able to:

- Explain what is AWS
- History of AWS
- Understand the AWS Global Infrastructure
- Describe the various types of Amazon Services
- Describe about AWS platform



Power of AWS

Invention requires two things :

- 1. The ability to try a lot of experiments and**
- 2. Not having to live with the collateral damage of failed experiments**

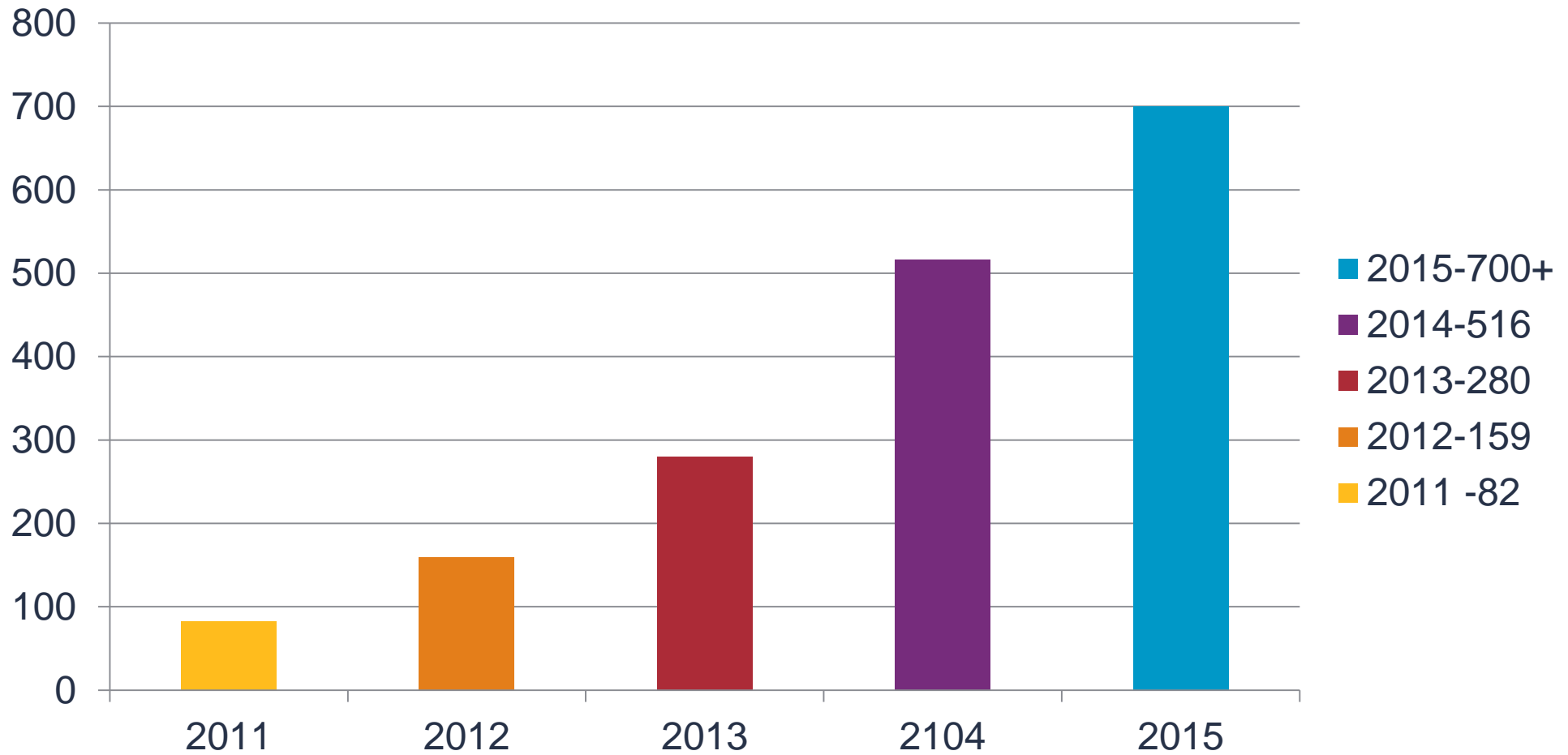
A Brief Time Line of AWS

- **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.**
- **2007 over 1,80,000 developers on the platform.**
- **2010 all of amazon.com moved over .**
- **2012 First Re-Invent Conference .**

Contd.,

- **2013 Certifications Launched.**
- **2014 Committed to achieve 100% renewable energy usage for its global footprint .**
- **2015 AWS breaks out its revenue , \$6 Billion USD per annum and growing close to 90% year on year .**

AWS – New Service Announcements & Updates

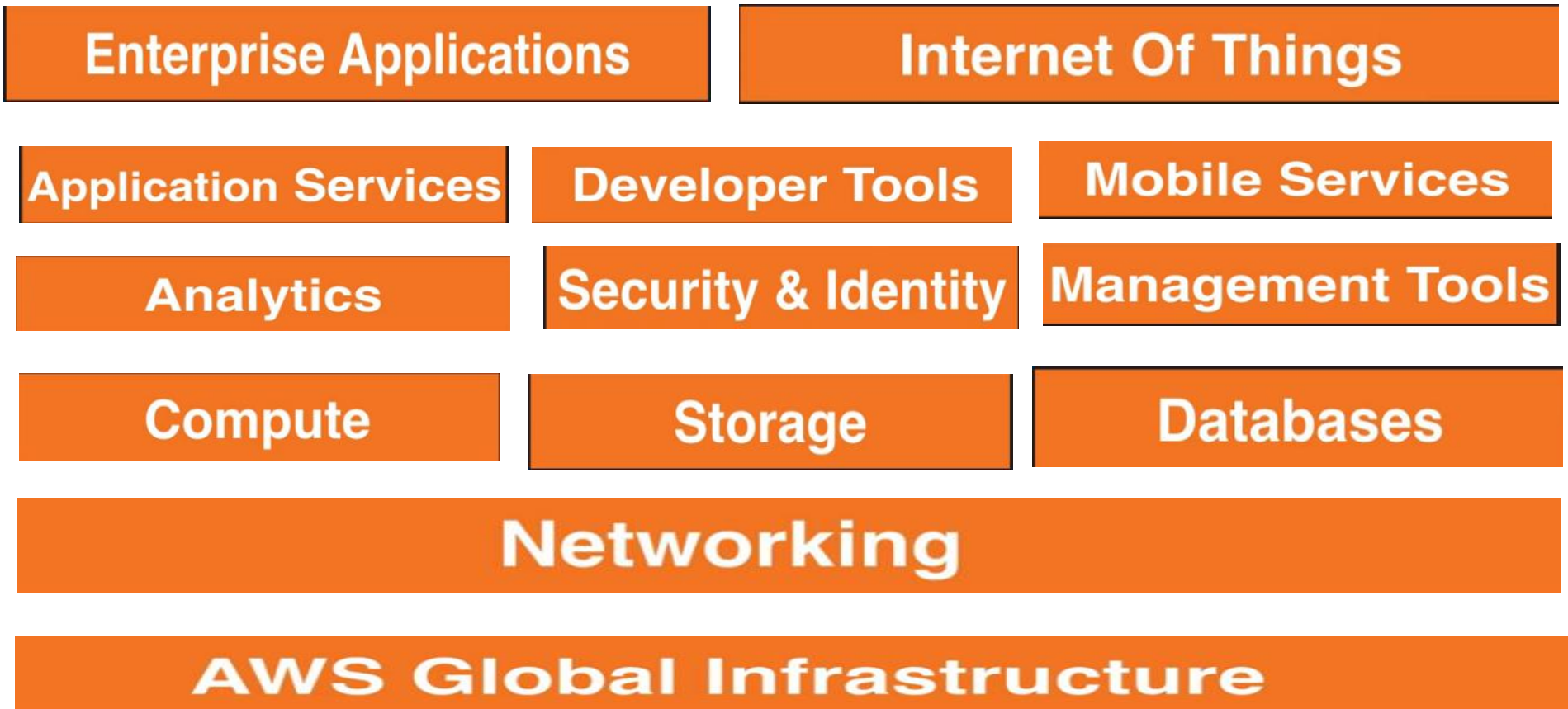


Gartner's Magic Quadrant



In May 2015 AWS was named as a leader in the IaaS Magic Quadrant for the 5th consecutive year

Concepts and Components - The AWS Platform

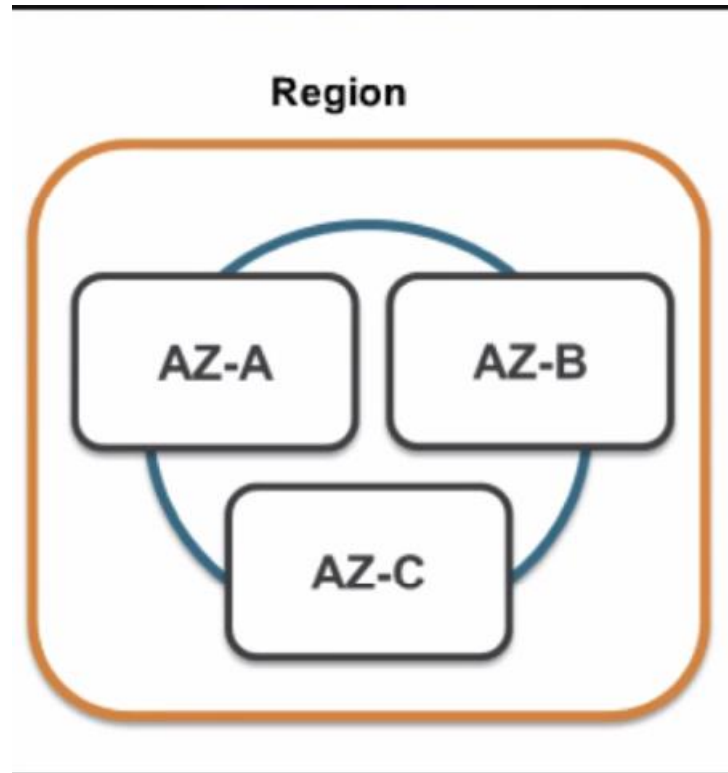


AWS Global Infrastructure



11 Regions & 30 Availability Zones – December 2015
5 More Regions & 10 More Availability Zones – 2016

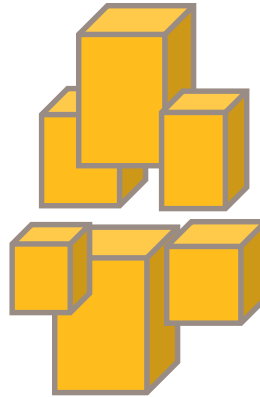
What is a Region ? What is an AZ ?



A Region is a geographical area. Each Region consists of 2 (or more) Availability Zones

An Availability Zone (AZ) is simply a Data Center

Edge Locations



Edge Locations are CDN End Points for Cloud Front

There are many more Edge Locations than Regions
Currently there are over 50 Edge Locations

A Brief Look at Today's Regions

North America



US East (Northern Virginia) Region
EC2 Availability Zones: 5*
Launched 2006

US West (Northern California) Region
EC2 Availability Zones: 3*
Launched 2009

US West (Oregon) Region
EC2 Availability Zones: 3
Launched 2011

AWS GovCloud (US) Region
EC2 Availability Zones: 2
Launched 2011

AWS Edge Locations: Ashburn, VA (3), Atlanta, GA, Chicago, IL, Dallas/Fort Worth, TX (2), Hayward, CA, Jacksonville, FL, Los Angeles, CA (2), Miami, FL, New York, NY (3), Newark, NJ, Palo Alto, CA, San Jose, CA, Seattle, WA, South Bend, IN, St. Louis, MO

**New customers can access three EC2 Availability Zones in US East (Northern Virginia) and two in US West (Northern California).*

Contd.,

South America



South America (São Paulo)

Region

EC2 Availability Zones: 3

Launched 2011

AWS Edge Locations: Rio de Janeiro, Brazil, São Paulo, Brazil

[See detailed list of offerings at all AWS locations](#)

Contd.,

Europe / Middle East / Africa



EU (Ireland) Region

EC2 Availability Zones: 3

Launched 2007

EU (Frankfurt) Region

EC2 Availability Zones: 2

Launched 2014

AWS Edge Locations: Amsterdam, The Netherlands (2), Dublin, Ireland, Frankfurt, Germany (3), London, England (3), Madrid, Spain, Marseille, France, Milan, Italy, Paris, France (2), Stockholm, Sweden, and Warsaw, Poland

[See detailed list of offerings at all AWS locations](#)

The AWS Services



VPC



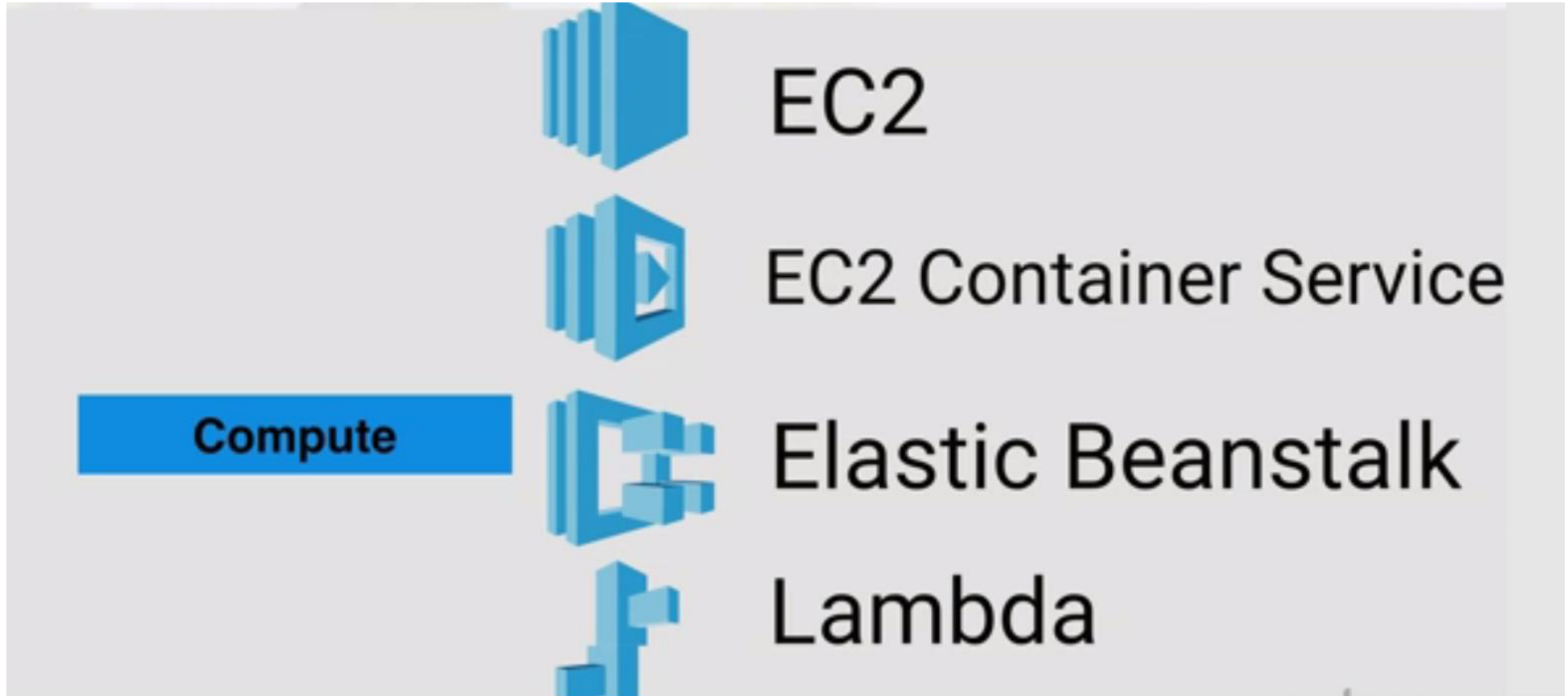
Route53



Direct Connect

Networking

AWS Services



AWS Services



S3



Cloud Front



Glacier

Storage



EFS



Snowball



Storage
Gateway

AWS Services



RDS



Redshift



DynamoDB



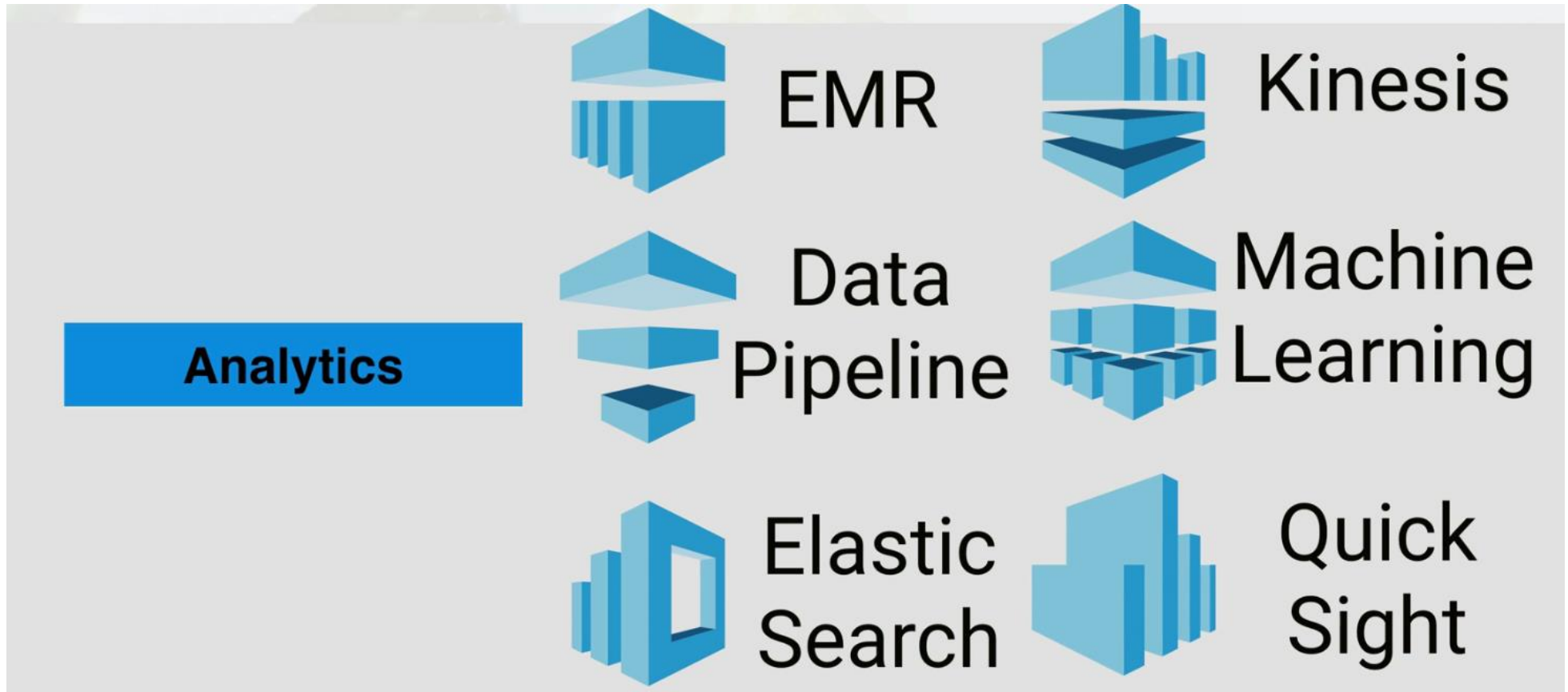
ElastiCache



DMS

Databases

AWS Services



AWS Services



Cloud
Watch



Opsworks



Cloud
Formation



Config

Management Tools



Cloud
Trail



Service
Catalog



Trusted
Advisor

AWS Services



API
Gateway



Elastic Transcoder

Application Services



AppStream



SES



SWF



CloudSearch



SQS

Developer Tools



CodeCommit



CodeDeploy



CodePipeline

AWS Services



Mobile Hub



Mobile Analytics

Mobile Services



Cognito



Device Farm



SNS

Enterprise Applications



WorkSpaces



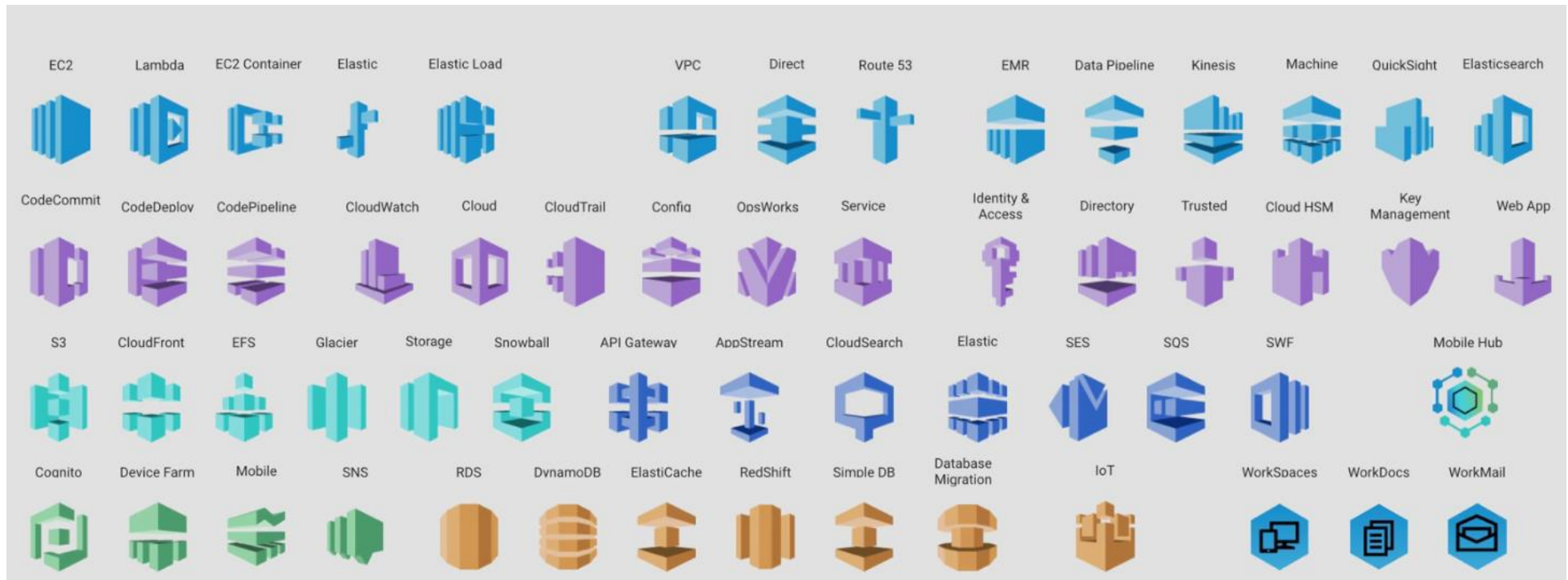
WorkDocs

Internet Of Things



Internet Of Things

Icons of AWS Services



Summary

- **History So Far**
- **AWS Global Infrastructure**
- **Regions, Availability Zones ,Edge Locations**
- **Concepts and Components – Part 1**
- **Concepts and Components – Part 2**
- **Concepts and Components – Part 3**
- **AWS Platform**

People matter, results count.



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