



Welcome to AWS

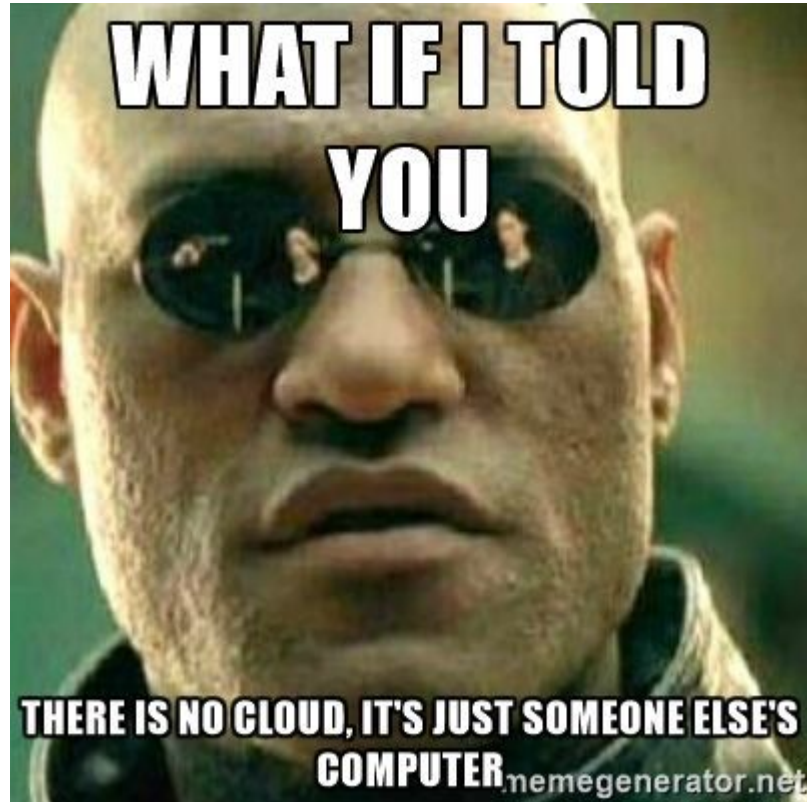
Yulia Tenincheva

Senior Cloud Engineer, MentorMate



Today's Agenda

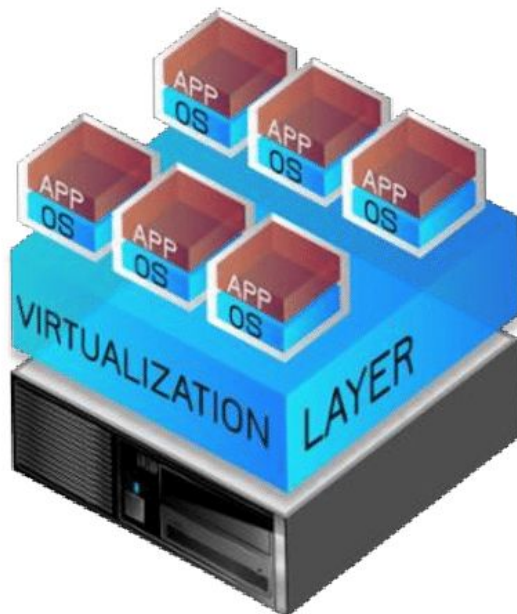
- What is a **Cloud** and why learn it?
- Infrastructure **Fundamentals**
- **AWS Global Infrastructure**
- What kind of **services** AWS provides?
- **Compute / Storage / Databases / Networking**
Overview
- **Other** services
- What “**Cloud Native**” means?
- **IAM** 101
- AWS **Lambda** 101 + Hello World
- AWS **S3** 101



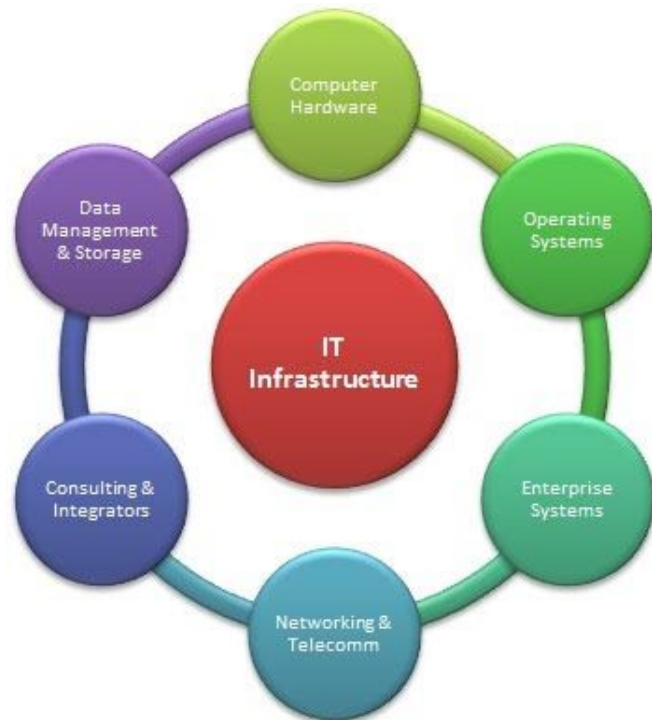
“Do it yourself”



Traditional Server Architecture



Virtualized Server Architecture



IaaS vs PaaS vs SaaS

Key Differences

- **IaaS:** cloud-based services, pay-as-you-go for services such as storage, networking, and virtualization.
- **PaaS:** hardware and software tools available over the internet
- **SaaS:** Software that's available via third-party over the internet
- **On-premise:** software that's installed in the same building as your business.



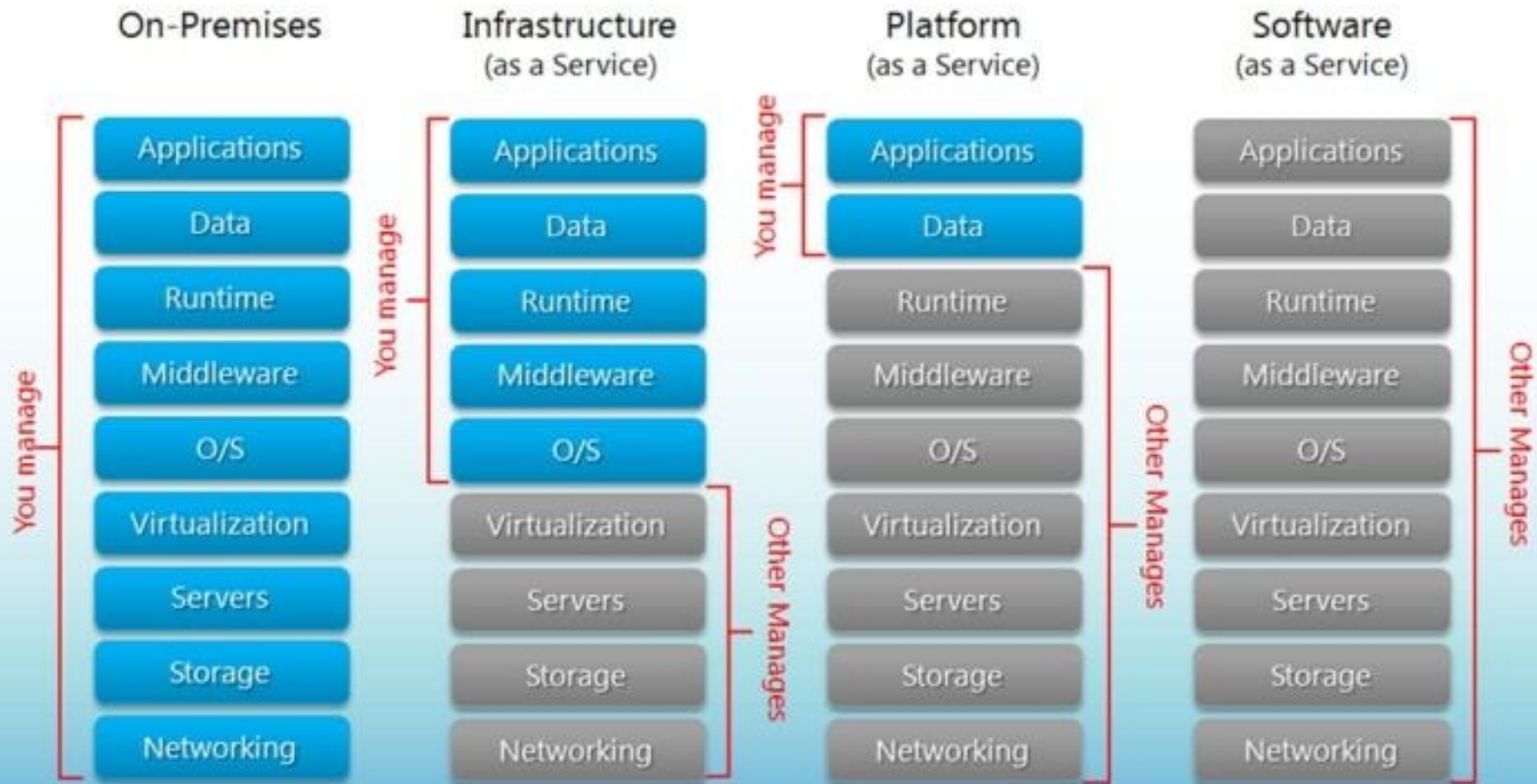


Figure 1. Magic Quadrant for Cloud Infrastructure and Platform Services



← [Gartner Report](#)

Advantages of the AWS Cloud

- Global Infrastructure
- Highly availability & Data redundancy
- Low Latency Content Delivery
- Affordable Compute, Network and Storage solutions
- Integration with a lot of third-party services
- Pay as you go pricing model
- Cost-Effective
- Secure
- Flexible
- VERY EASY TO USE



First Steps

Welcome to AWS

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

- Web Console navigation
- Access & Accounts
- AWS CLI
- AWS Documentation
- AWS Pricing Model & Considerations

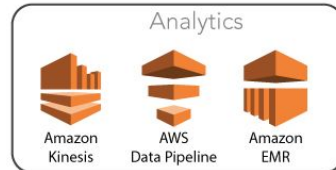


AWS Services

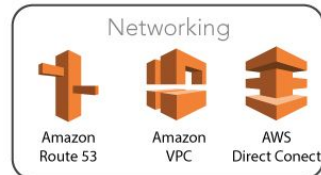
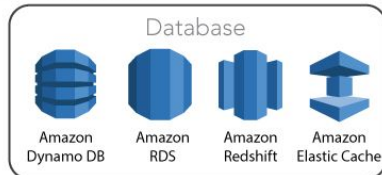
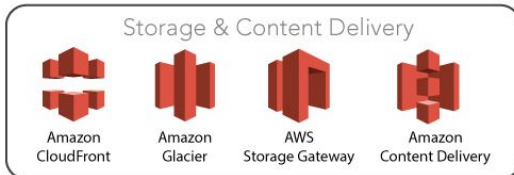
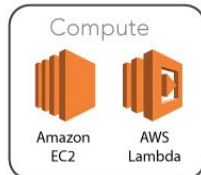
Deployment & Management



Application Services



Foundation Services



Exploring AWS

Cloud Security



AWS Security, Identity, and Compliance Services

By function type

Authorization



IAM



AWS RAM



AWS Organizations

Authentication



Amazon
Cognito



AWS SSO



Amazon Directory
Service

Protected stores



AWS CloudHSM



AWS KMS



AWS Secrets
Manager



AWS Certificate
Manager

Visibility



AWS Artifact



AWS Security
Hub

Enforcement



Amazon GuardDuty



Amazon Inspector



Amazon Macie



AWS WAF

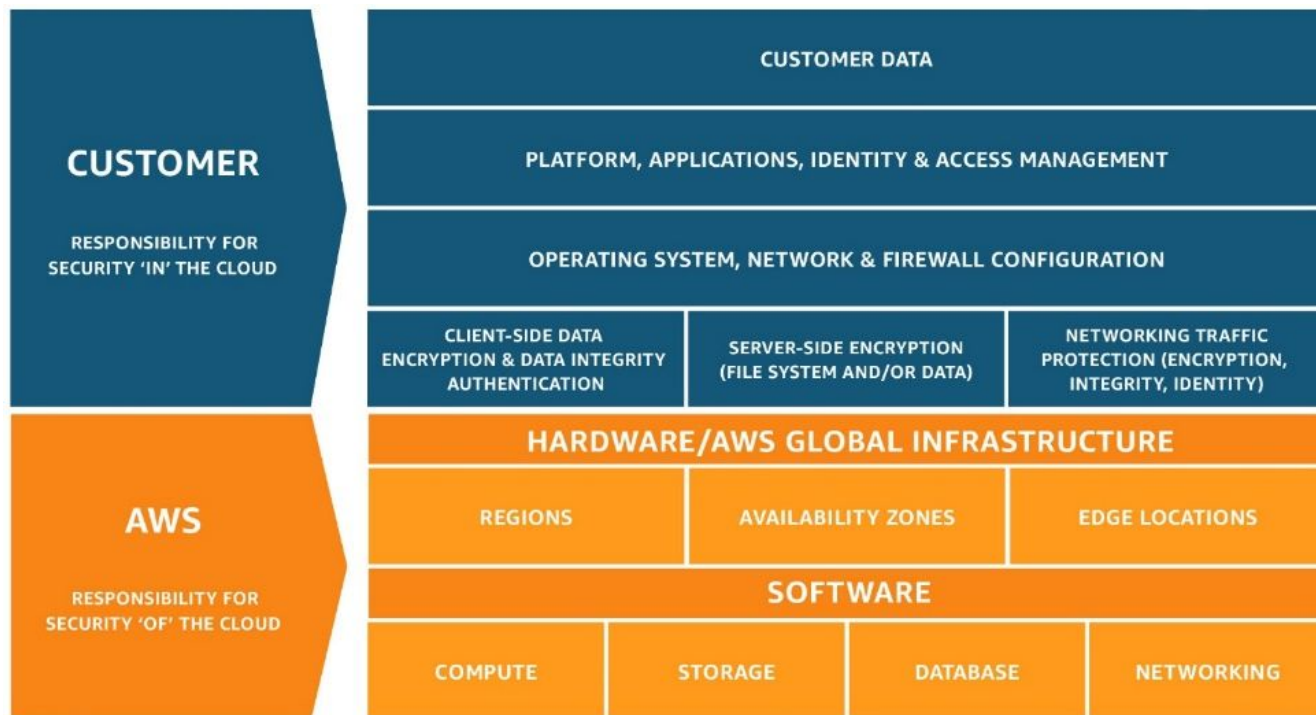


AWS Shield



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AWS Shared Responsibility Model

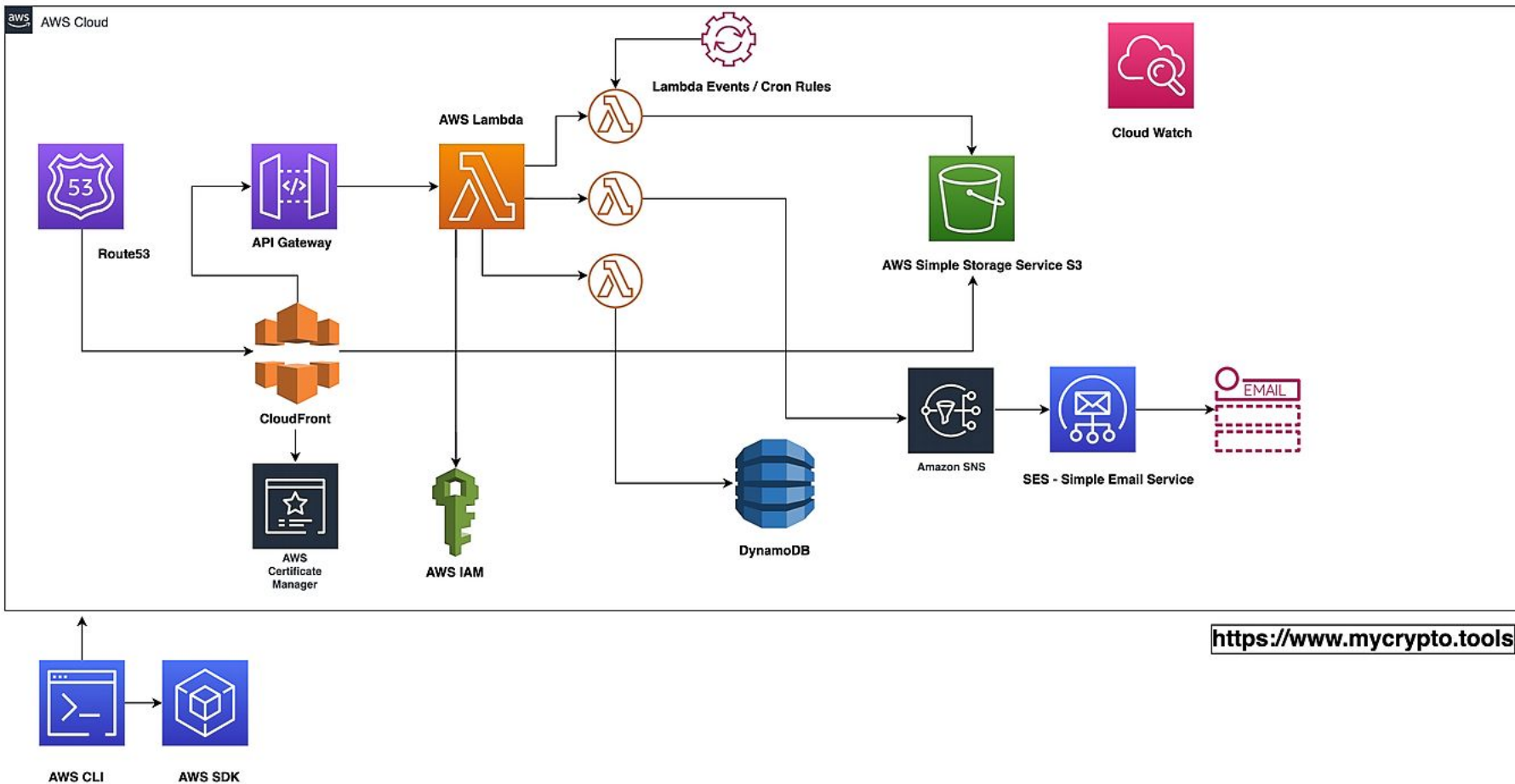


So... What is **Cloud** Native?

Cloud native is an **approach** to building and running applications that fully exploit the **advantages** of the **cloud computing** model.



AWS Cloud



<https://www.mycrypto.tools>



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AWS Lambda

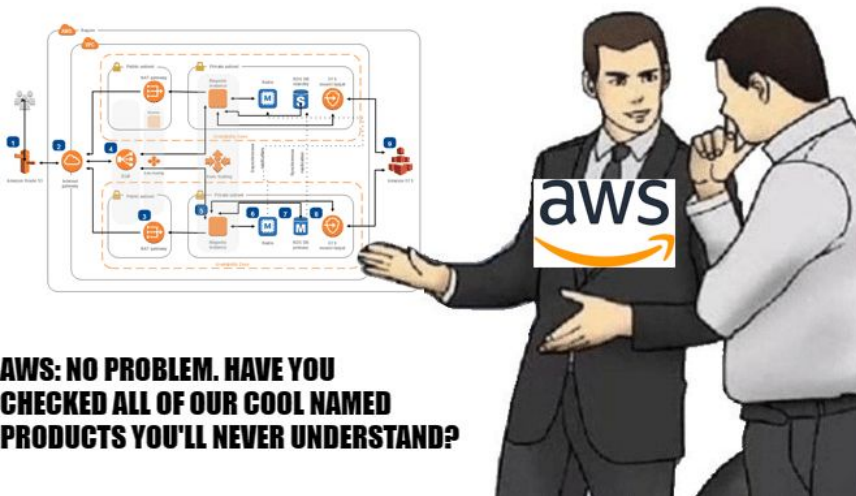
AWS Lambda

AWS Lambda is a compute service that lets you run code without provisioning or managing servers.

AWS Lambda executes your code only when needed and scales automatically, from a few requests per day to thousands per second.

[Welcome to AWS Lambda](#)

**ME: I JUST NEED TO HOST
'HELLO WORLD' ON THE CLOUD.**



“Hello, Cloud!” – DEMO

Resources

- Setting Credentials in Node.js - [guide](#)
- AWS Certification [courses](#)
- [Set Billing Alarms](#) - if using your own account
- AWS Hands-on [Tutorials](#)
- More AWS Tutorials for [getting started](#)

