AWS Community Pakistan - Beginner Series EP#04

Intro to Serverless

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BS (Computer Science) - FAST Khi
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More details @ **https://husyn.dev/about.html**
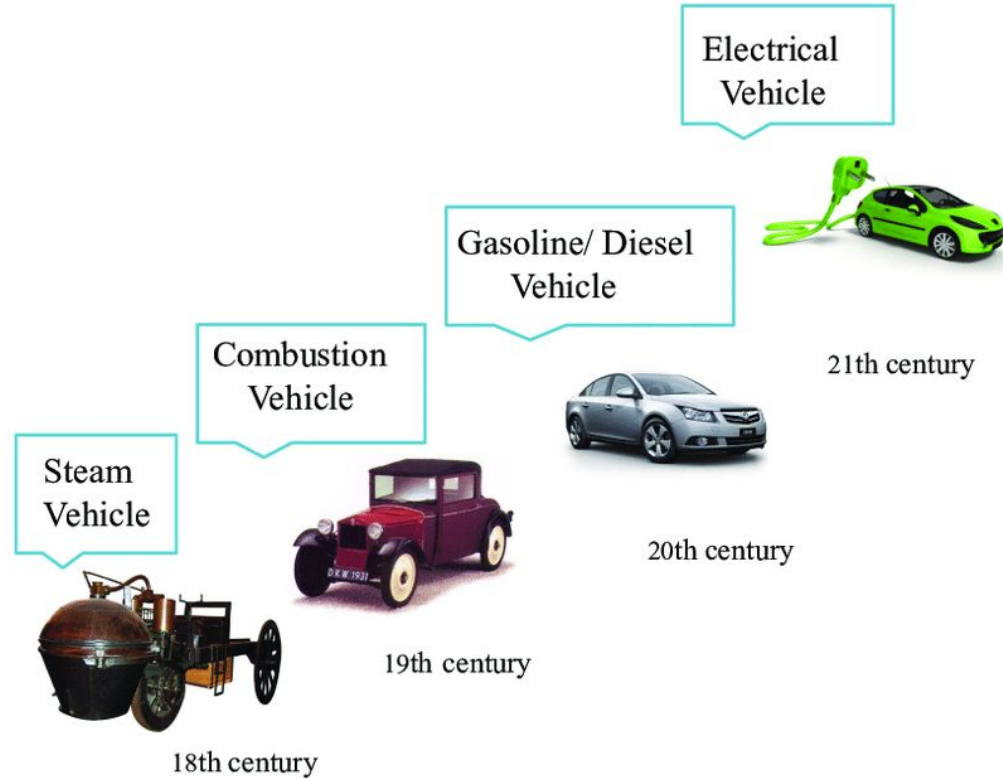
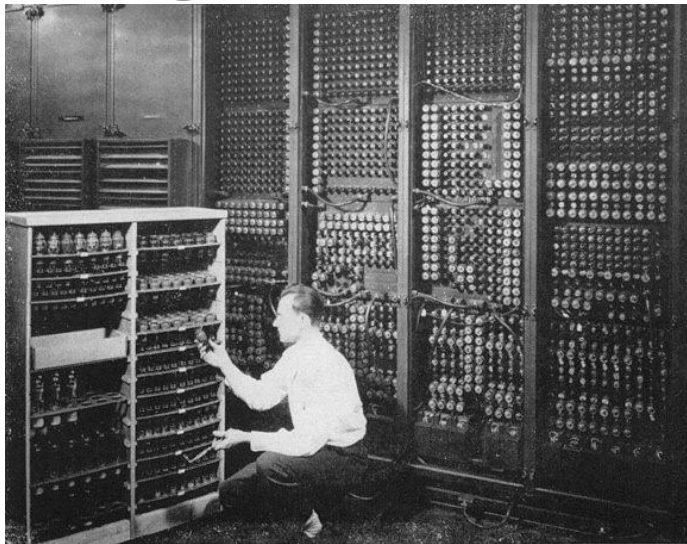Youtube Channel on AWS in Urdu - All about Cloud

Contents

Why Serverless?!

ENIAC

Hardware Programming

Replacing a bad tube meant checking among ENIAC's 19,000 possibilities.
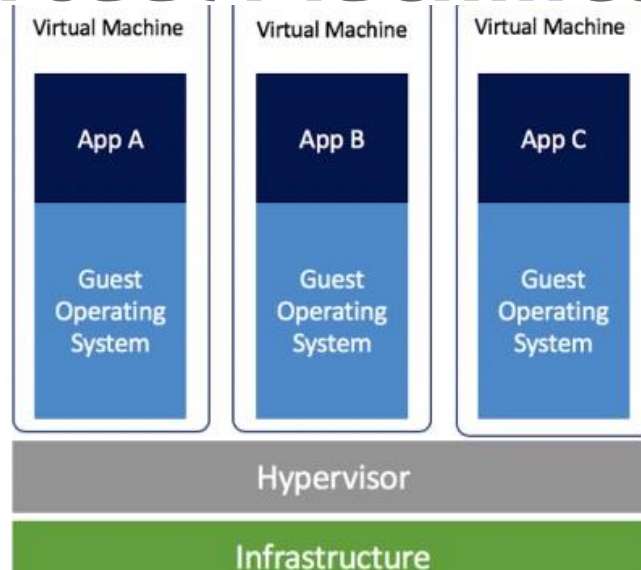
Servers

OS specific
applications

Data Centers

Virtual Machines

Hardware is shared

Apps can be moved from 1 infra to another

Virtual Machine	Virtual Machine	Virtual Machine
App A	App B	App C
Guest Operating System	Guest Operating System	Guest Operating System

Hypervisor

Infrastructure

Infra (Iaas)

Containers

Docker is the ONLY requirement!

Platform (PaaS)

Containerized Applications

| App A | App B | App C | App D | App E | App F |

Docker

Host Operating System

Infrastructure
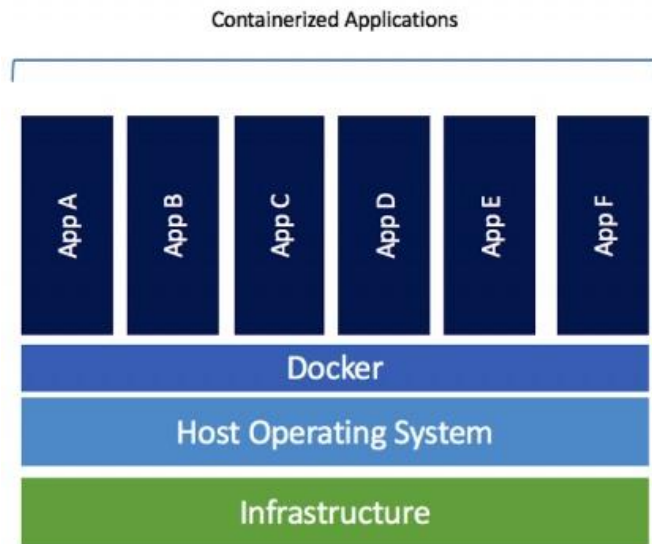
Serverless

Only Business requirements
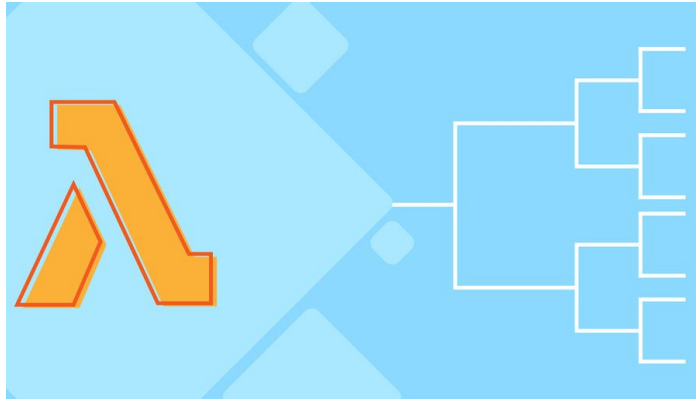
Function

(FaaS)

What is Serverless

- No Provisioning (OS, HDD, Network..)
- No Management (Patching, libraries..)
- **Pay for Value / Utility Pricing**
- Scaling

- Can't run Wordpress, Joomla, MySQL
- Can't scale with schedule
- No Predictable Cost

Services

Storage

- S3
- DynamoDB
- Aurora Serverless

Compute

- Lambda
- Fargate

Integration

- SNS
- SQS
- API Gateway

To Lambda

Easy, highly-scaled, cheap & reliable service which integrates with many other AWS services.

0.000000021

$0.20 per 1 Million requests
$0.0000166667 for every GB-second

https://aws.amazon.com/lambda/pricing/

Free Tier (ALWAYS)

- 1 million requests / month

- 25GB DynamoDB

- 1 million SNS requests

- SQS, CloudWatch, Chime, Cognito...

Where to learn AWS from?

AWS Lambda Foundation

https://portal.tutorialsdojo.com/product/aws-lambda-foundations/

AWS Fundamentals

https://www.coursera.org/specializations/aws-fundamentals

AWS Training & Certification

https://www.aws.training

Labs & Courses

https://www.qwiklabs.com/catalog?cloud%5B%5D=AWS

All AWS services workshops

https://workshops.aws

YouTube

https://www.youtube.com/channel/UCQnAN556-_JeXfiQi9SgN_g

Let's do Practical!

https://bit.ly/3tct22b
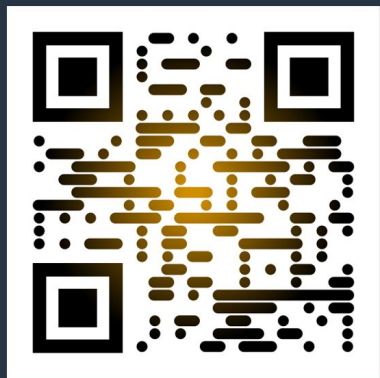
Thanks!

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