



Become a Solutions Architect



Week 3 - Agenda

1. **Technical Track** (45 Min)

- Compute in Cloud

2. **Networking Track** (40 Min)

- Hold the door - NACL & Security Group

3. **Hands On** (30 Min)

- Create and connect to your instance

AWS Services Stack



Platform
Services

Databases

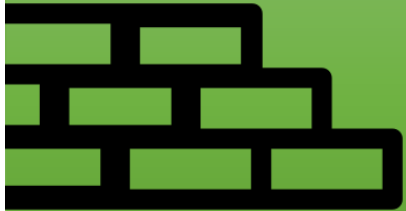
Analytics

App Services

Deployment

Mgmt.

Many More...



Foundation
Services

Compute

Networking

Storage



Global
Infrastructure

Regions

Availability
Zones

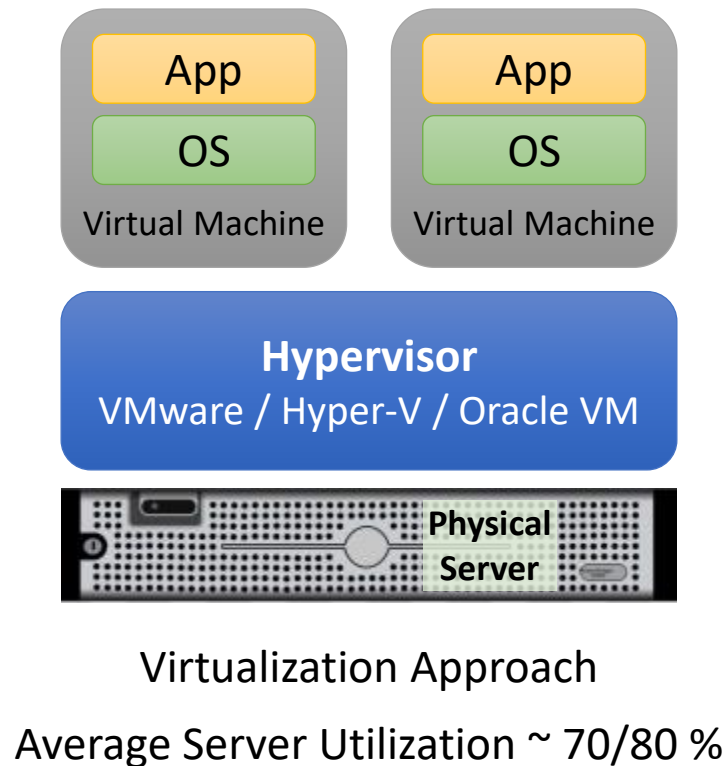
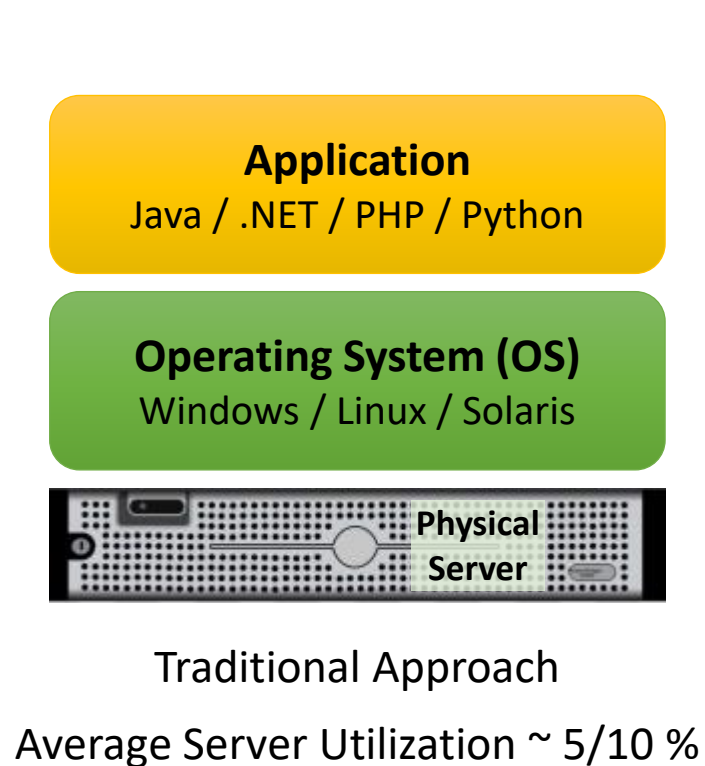
Edge
Locations

What is compute?



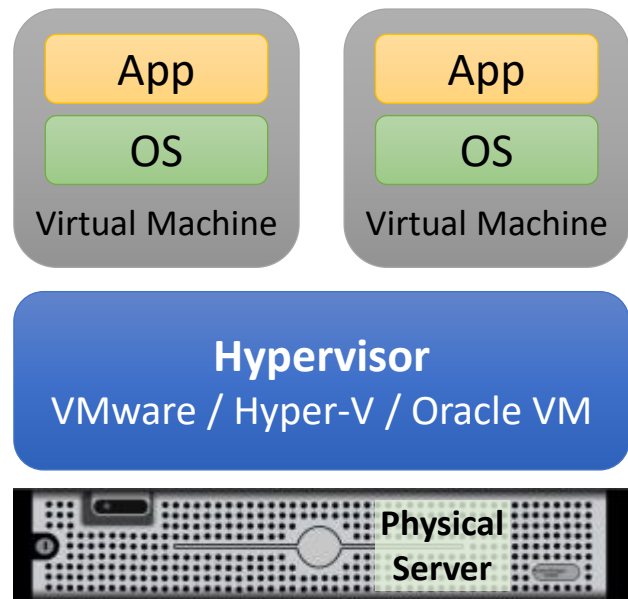
- Compute is a generic term used to reference processing power, memory, networking, storage, and other resources required for the computational success of any program.
- These resources can be physical or virtual.

Physical Server vs. Virtual Machine

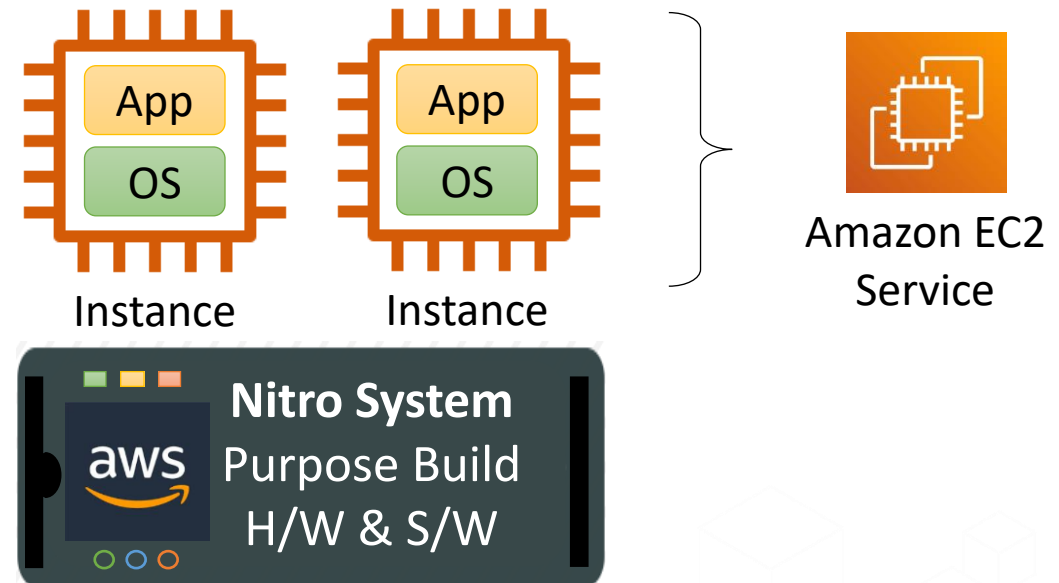


- Virtual machine is digital version of a physical computer.
- A virtual machine can perform all the same functions as a physical computer, including running applications and operating systems.
- They may also require maintenance such as updates and system monitoring.

Amazon Elastic Compute Cloud (EC2) – Virtual Server in Cloud



Virtualization Approach

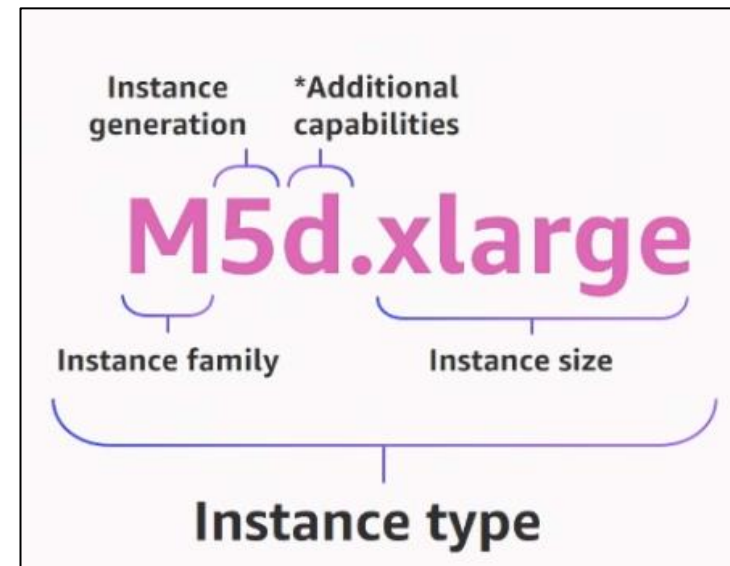
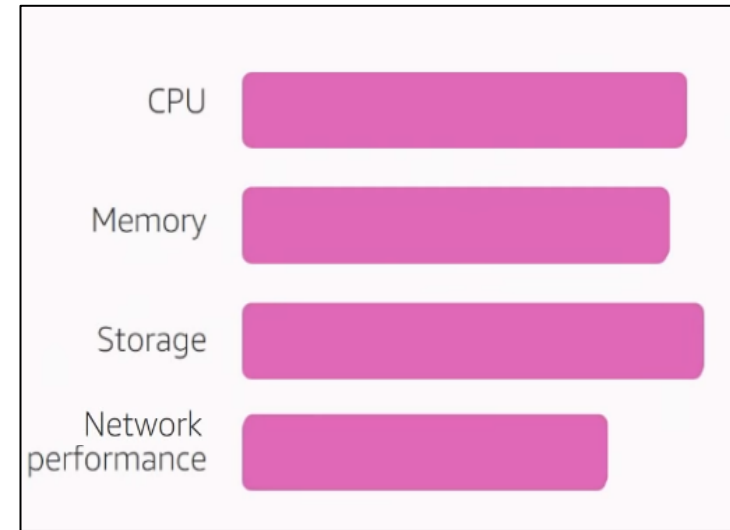


AWS Approach



Provisioning an EC2 Instance

- AMI – Amazon Machine Image
 - Template of common OS images
 - Quick Start
 - My AMI
 - Marketplace
 - Community
- Instance Type
 - Performance Characteristics
 - Optimized for different workloads
 - Elastic – Can be changed later
 - Region Specific

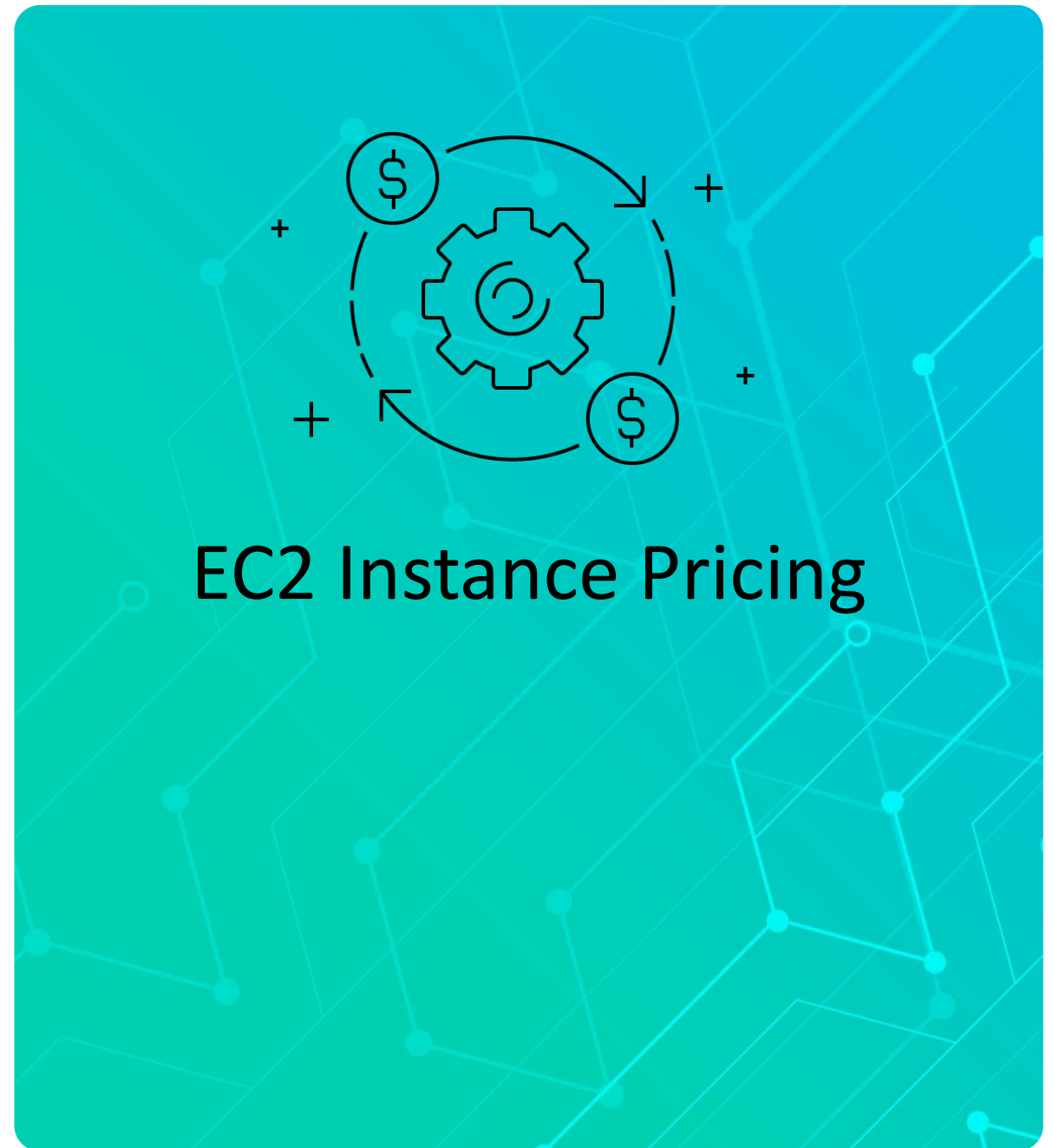


User Data

- Customize your instance at launch

```
#!/bin/bash
yum update -y
yum install httpd -y
echo "<html><body><center><h1>Welcome to AWS. Here is my web page!
</h1></center></body></html>" > /var/www/html/index.html
systemctl start httpd
systemctl enable httpd
```





EC2 Purchase Options

