



APRIL 5, 2023

DevOps Classroomnotes 05/Apr/2023

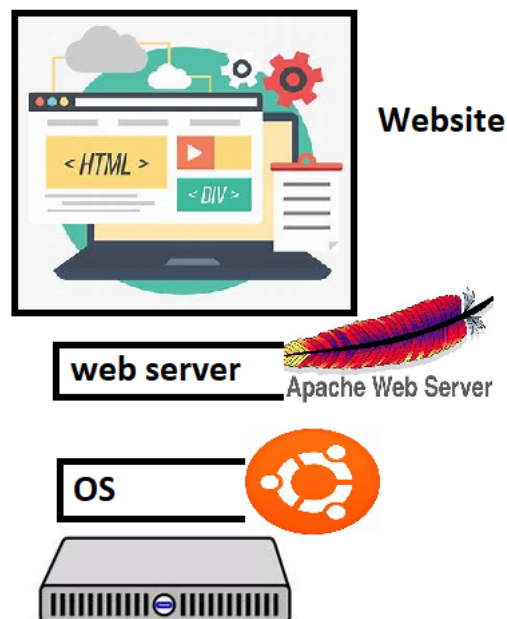
Application Deployments

Terms

- Capex: Capital Expenditure
- Opex: Operational Expenditure
- Physical Server
- Hypervisor
- Virtual Machine
- Return on Investment (ROI)

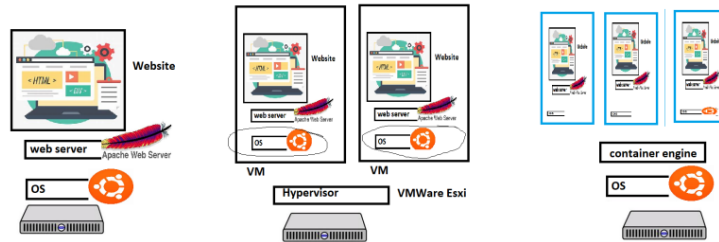
Evolution

- Generation 1: Directly run on Physical Servers
 - Directly run on physical servers
 - If your application is not utilizing hardware completely, ROI is very long



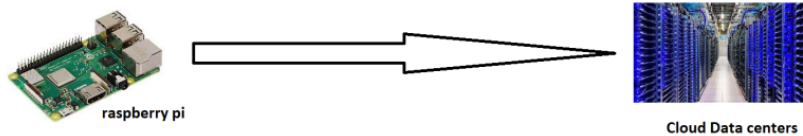
- Generation 2: Hypervisors create virtual machines and applications installed in virtual machines
 - Hypervisors perform hardware virtualization and provide
 - virtual cpu
 - virtual ram
 - virtual disk
 - virtual network
 - In the isolated area created by hypervisor, we can install os and necessary softwares
 - Application can be installed and used from here
 - Better ROI
- Generation 3: Containers: These are isolated areas which look like vms but the container is an isolated area which has virtualized os.
 - Applications running in Containers will not feel the difference

- We can run more applications on a single box



What is docker?

- Docker (dock worker) is used to create containers which is standard way of packaging any application
- Application can be any of the below but have a standard way of packaging i.e docker image.
 - developed in any technology
 - developed on any server
- Packaging in docker image format helps us to run our application



Expectations from you in terms of Docker

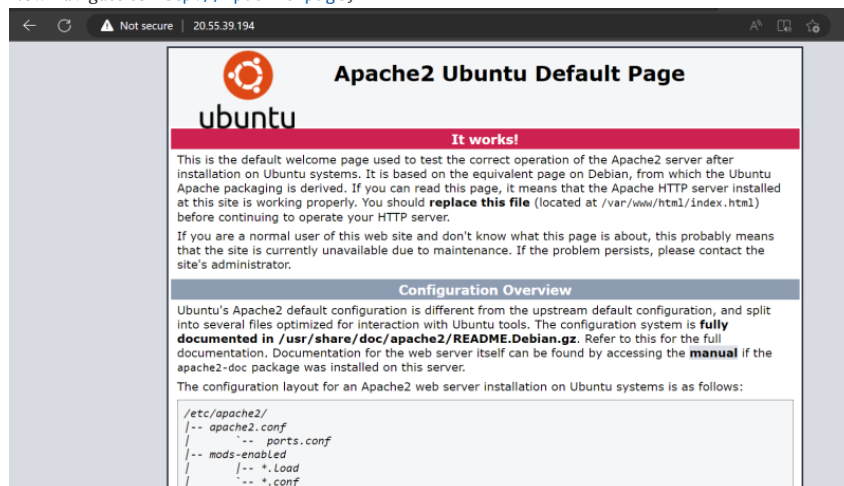
- Containerize any application run by your organization.
- Manage Data, Security and Networks for containerized applications.
- To achieve the above expectations, we need to use
 - docker and understand how it runs and creates containers
 - play with docker around networks, data and security
 - apply them to our application.

Run apache server (VM)

- Create a vm (ubuntu) and ssh into it

```
sudo apt update
sudo apt install apache2 -y
```

- Now navigate to <http://<publicip>>;



- Now lets try to also install nginx

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