

AWS Foundation

Introduction



Agenda



1 Cloud Computing

4

AWS Suite (with analogy)

2 Deployments & Models

5

Virtualization in AWS

3 Advantages

6

XEN Hypervisor



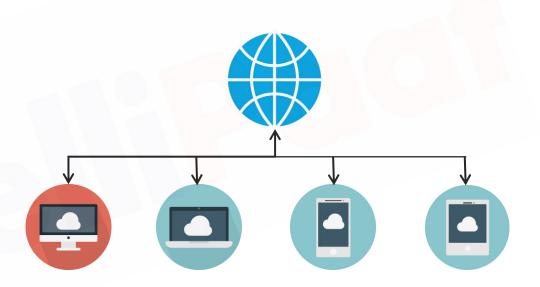
Cloud Computing





The "NET"

- What is Internet/Intranet
- A global computer network using standardized communication protocols (e.g. UDP, TCP/IP) providing information and communication facilities, consisting of interconnected networks



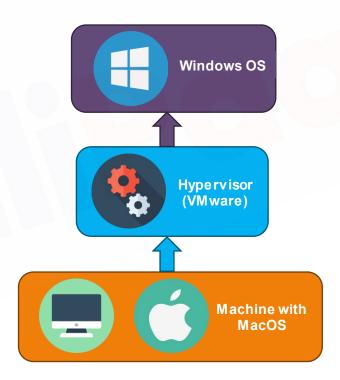
Intranet is a local private network created using World Wide Web.





Virtualization is the creation of a virtual version of something, such as operating system, server, storage device or network resources.

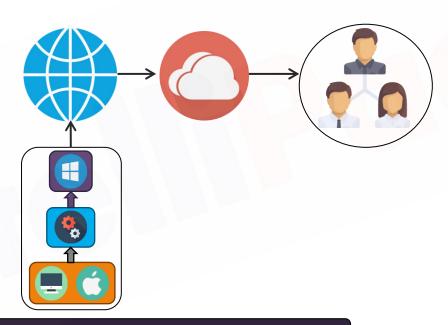








Saying it now



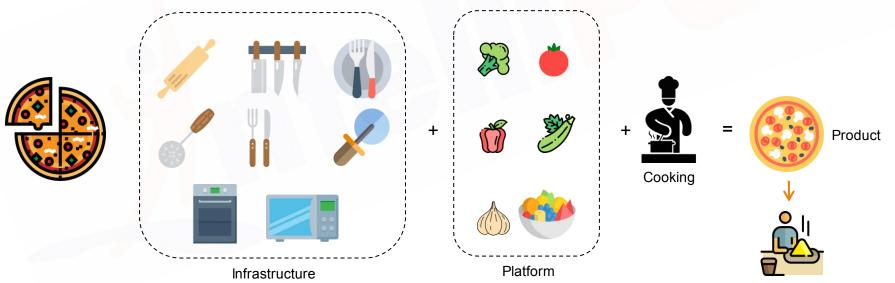
Virtualized Compute environment over internet/intranet.

Cloud Computing = Virtualization + Internet/Intranet.



Cloud Service Models

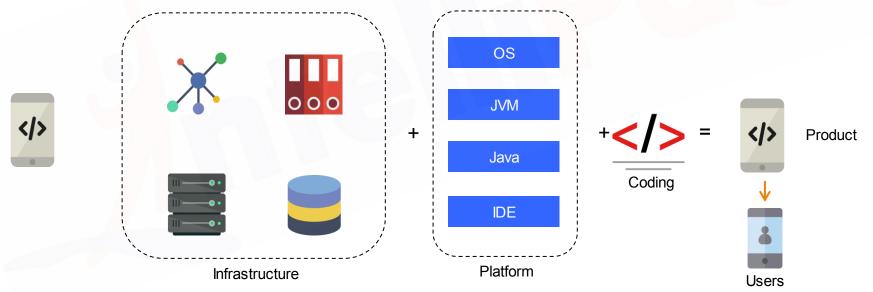
- □ laaS (Infrastructure as a Service): AWS, Rackspace, MS Azure etc.
- □ PaaS (Platform as a Service): AWS Elastic Beanstalk, Heroku etc.
- □ SaaS (Software as a Service): Google drive, Google docs, MS Office 365 etc.





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Application
Security
Database
os
Virtualization
Servers
Storage
Network
Data Center
On-Premise

Application
Security
Database
os
Virtualization
Servers
Storage
Network
Data Center
laaS

Application
Security
Database
os
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Servers
Storage
Network
Data Center
PaaS

Application
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Data Center

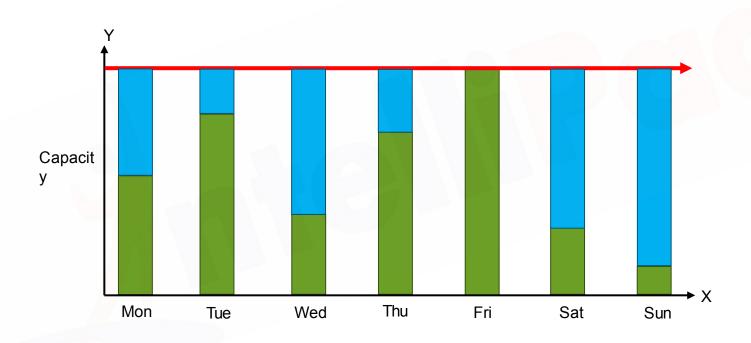
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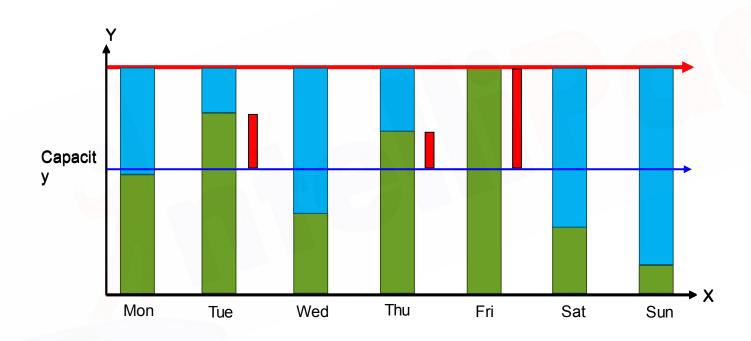
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- Cloud Deployment Models
 - Public Cloud (AWS, MS Azure, Google Platform, IBM Bluemix etc.)
 - Private Cloud (HPE, VMware, RedHat OpenStack, Dell EMC etc.)
 - Hybrid Cloud

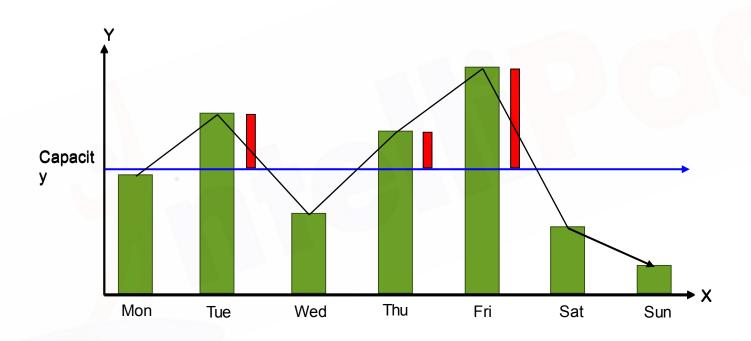




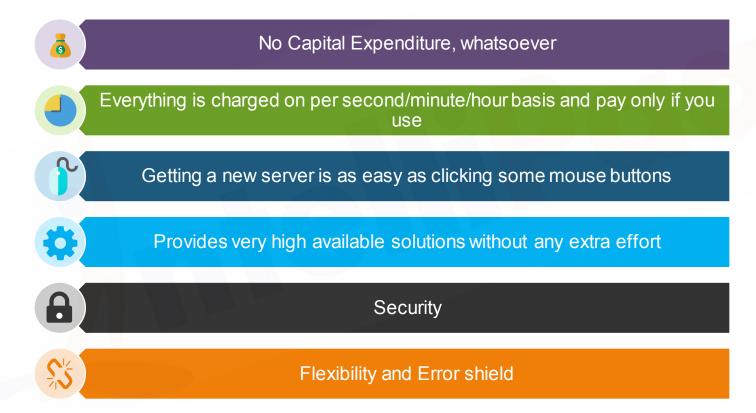








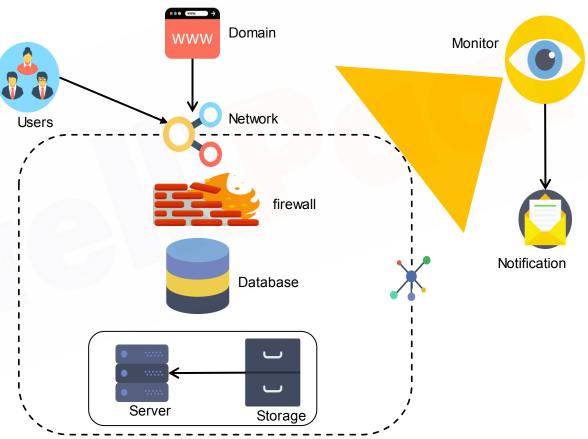




AWS Suite

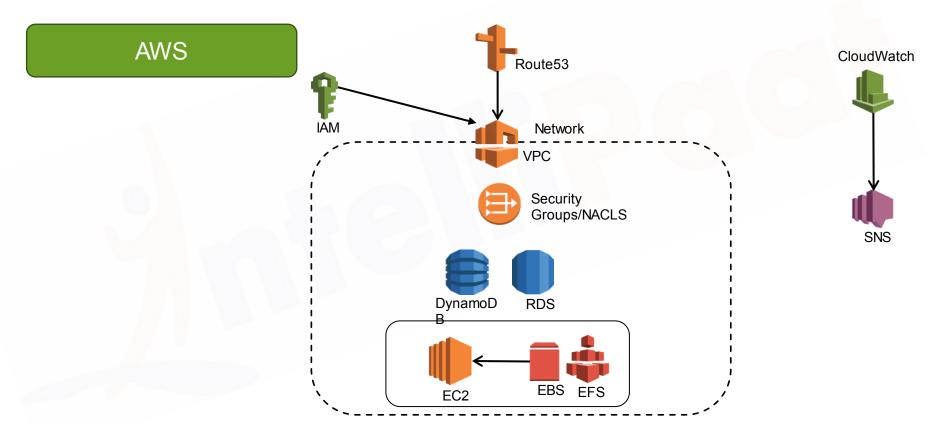


Corporate Data Center



AWS Suite

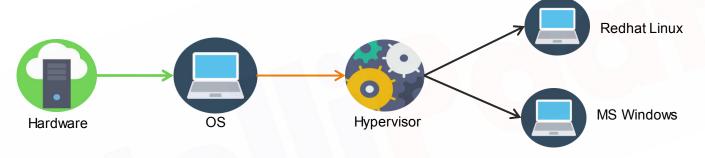




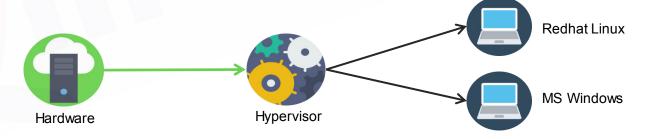
Virtualization in AWS



- Types of Hypervisor
 - > TYPE-2 (Hosted)



> TYPE-1 (Native/Bare Metal)



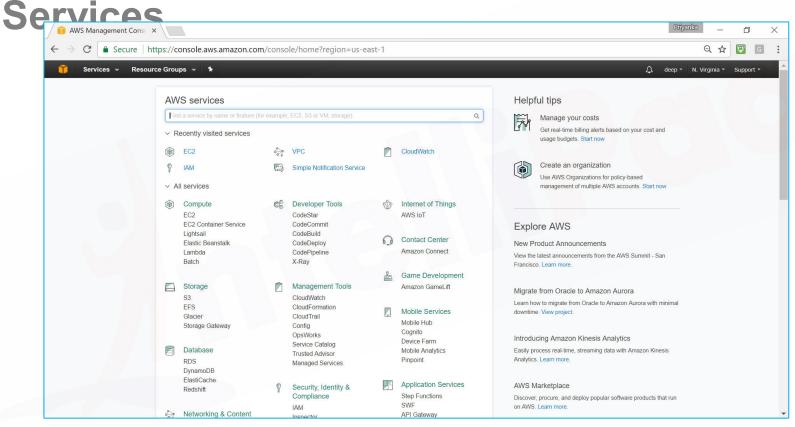
XEN Hypervisor



- Xen Project is a hypervisor using microkernel design
- Was launched in October 2003 by University of Cambridge Computer Laboratory
- Leading open source virtualization platform which is powering the biggest players in cloud today
- AWS, RackSpace, OpenStack, Verizon Cloud etc. use Xen
- For more information visit https://www.xenproject.org
- KVM is also used in some places

Amazon Web













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