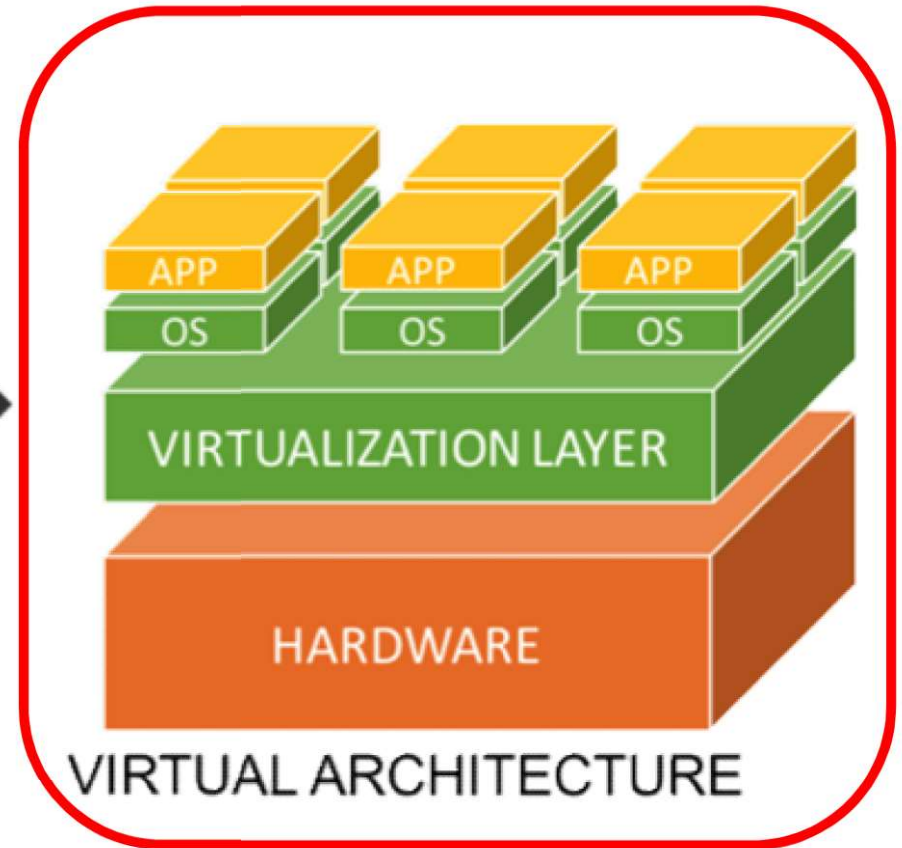
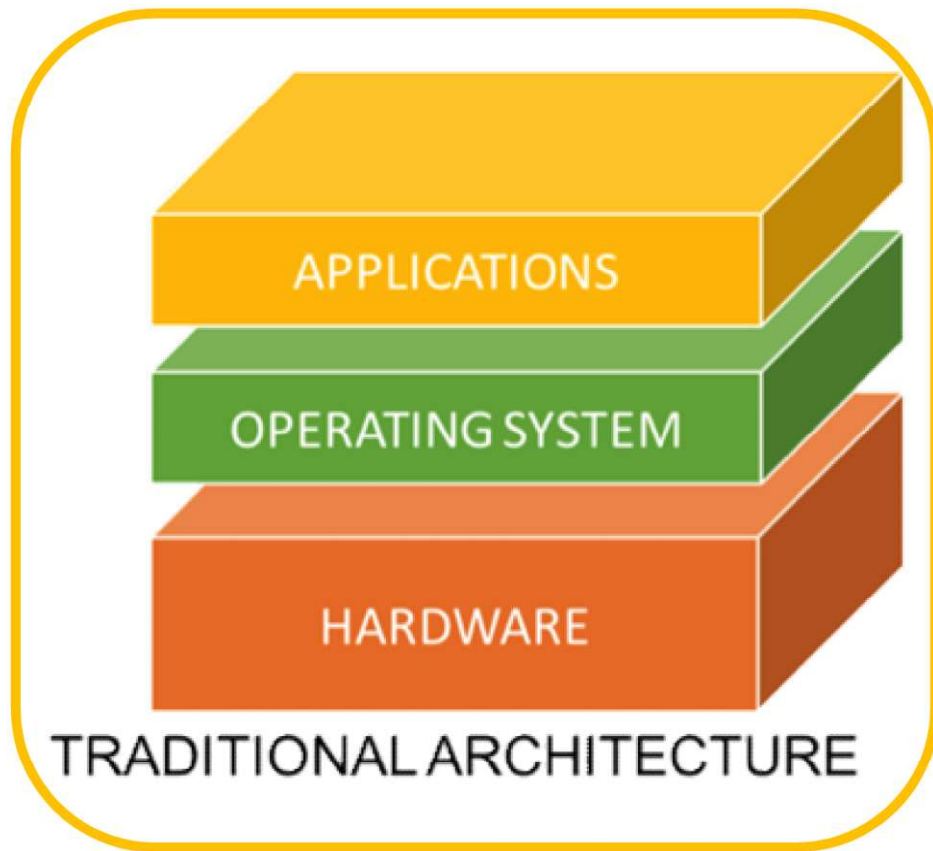


Virtualization

What is Virtualization?



What is Virtualization?

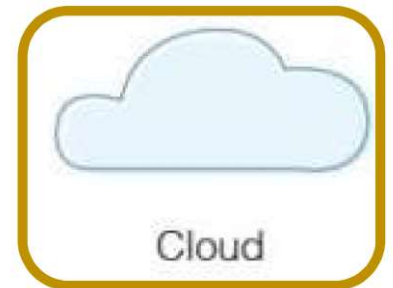
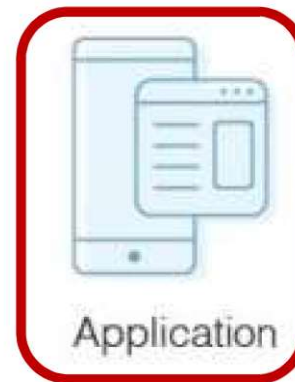
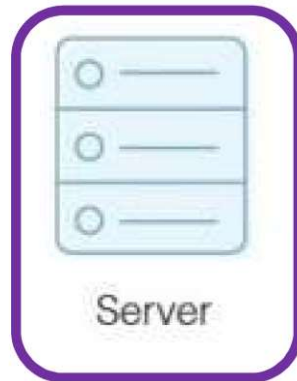
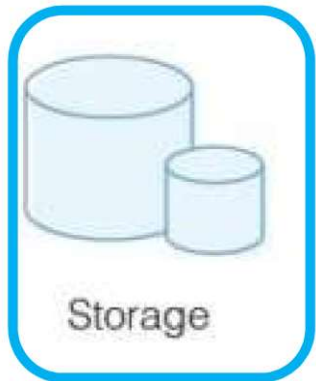
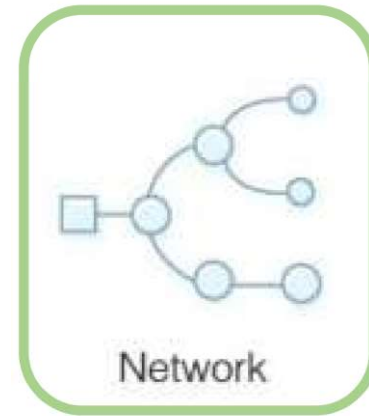
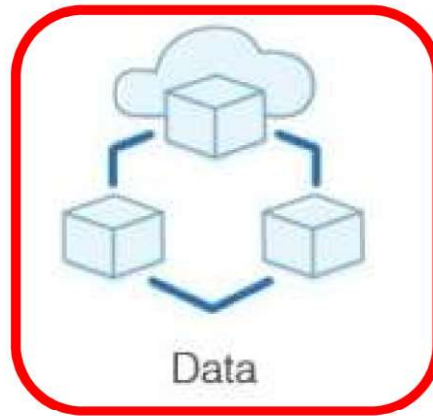
The act of creating a virtual version of

- Virtual computer hardware platforms,
- Storage devices, and
- Computer network resources etc

Single most effective way to reduce IT expenses

Boosts efficiency and agility for businesses

Types of Virtualization



Virtualization vs. Cloud Computing

Not interchangeable

Software

- Makes computing environments independent of physical infrastructure.

Cloud computing

- **Service** that delivers shared computing resources on demand via the Internet

Organizations can begin by virtualizing their servers and

- Then moving to cloud computing for even greater agility and self-service.

Virtualization Technologies

HyperV

- By Microsoft for the Windows Server Virtualization

VMWare

- Cloud based virtualization technology
- Can run Multiple instances of virtual machines

KVM

- Linux based full virtualization technology which is free and Open source virtualization

Citrix server

- Provides virtualization for Desktop and Application based on Xen Hypervisor

Virtualization Objective and Benefits

Protection from System Failures

- Virtualization lets open the same work on another device
- Store all backup data through virtualization on cloud services
- Get easy access to it from any device

Hassle-free Transfer of Data

- Can easily transfer data from a physical storage to a virtual server, and vice versa
- Don't have to waste time digging out hard drives to find data.

Firewall and Security

- With virtual firewalls, access to your data is restricted at much lower costs as compared to traditional methods

Smoother IT Operations

Cost-Effective Strategy

Applications for Businesses – Some Examples

Productivity

- Google Docs
- Office 365

Business Process

- CRM and ERP are now based on Cloud
- This method is cost-effective

Backup and recovery

- The responsibility of your information also lies with your service provider
- Recovery is also performed faster in the cloud
- Dropbox, Google Drive and Amazon S3

Big data analytics

- Cloud services make mining massive amounts of data possible by providing higher processing power

Social Networking

Applications for Businesses – Some Examples

Online Streaming Platform

- Netflix
- Amazon Prime
- Youtube

Application Development

- Github
- Cloud machines
- Online Backup
- Test machines for few hours

Deep Learning

Banking, Financial Services

Thanks