

## Developing, Deploying and Managing Applications on the Cloud

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## Agenda



Introduction

- Computing Evolution
- IT Challenges and Importance of Datacenter
- Cloud Evolution
- Cloud Definition & Framework
- **IaaS** Characteristics
- Choosing the Service Provider
- Building successful apps in the cloud
- What's happening in the world of Cloud
- Summary



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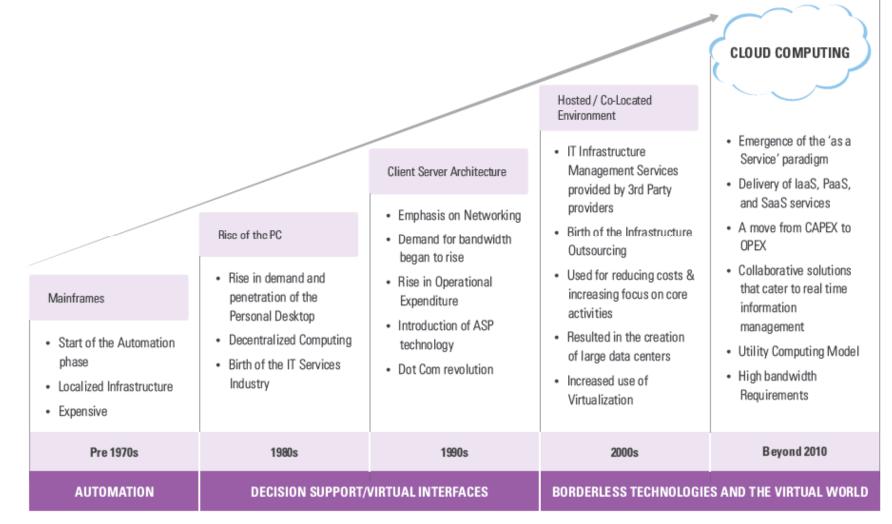


### Evolution of Computing and IT services



### **Evolution of Computing**



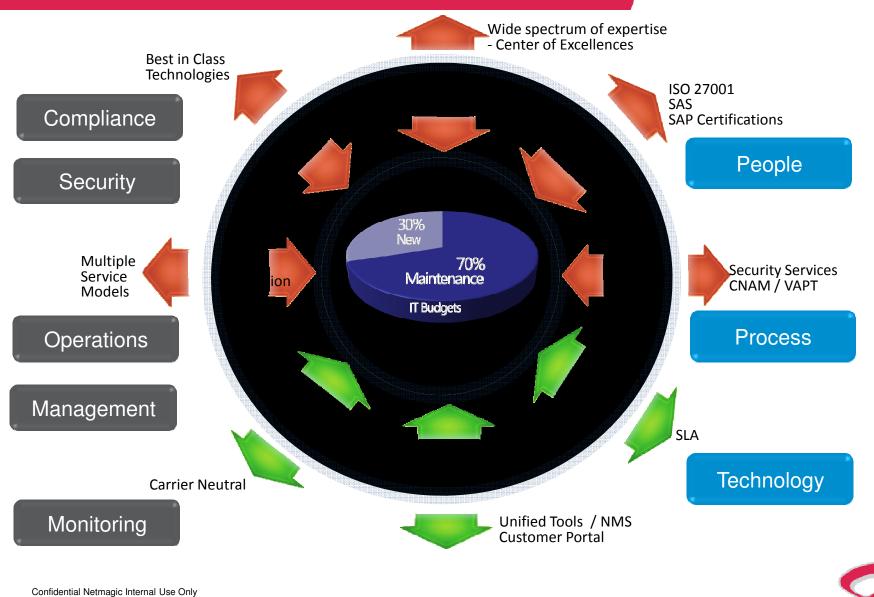


Source: KPMG'sThe Cloud: Changing the Business Ecosystem, 2011



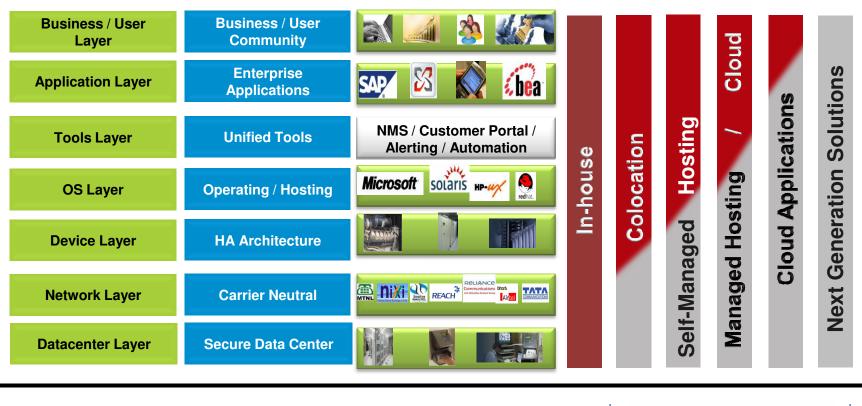
## IT Infrastructure & Delivery Challenges





### **IT** Functional Elements





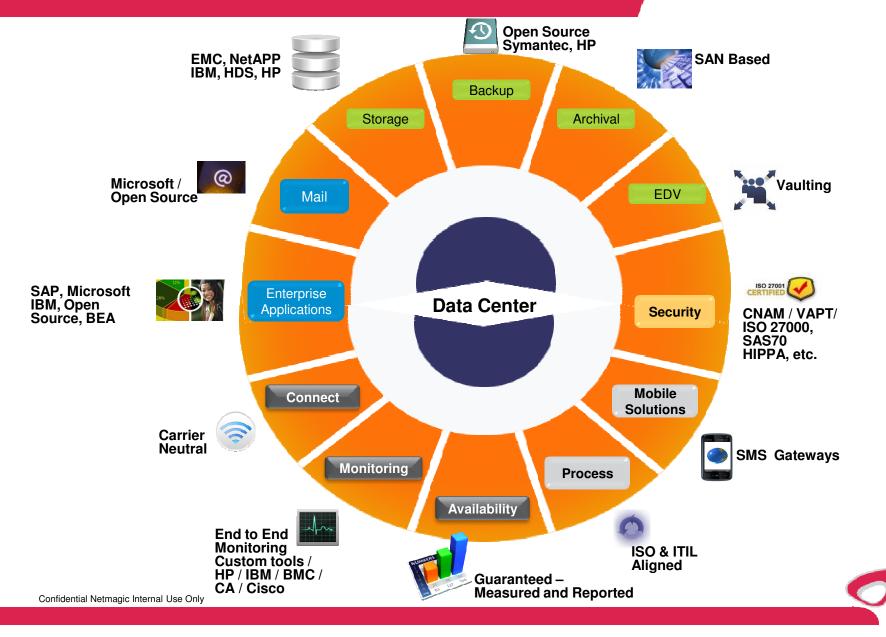
Customer Risk

**Provider Responsibility** 



### Datacenter Consolidation Nerve Center of Your IT Universe





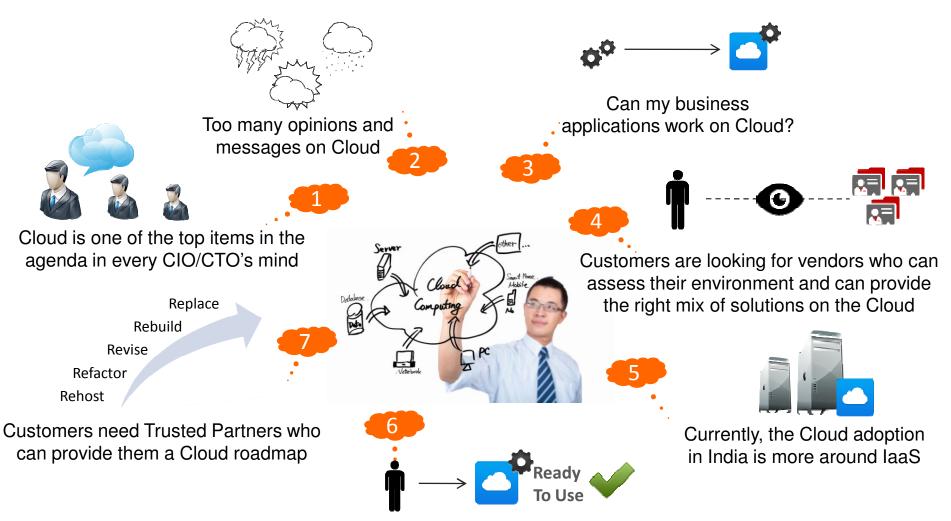


### **Cloud Computing Evolution**



# Opportunities and Challenges in Indian Market



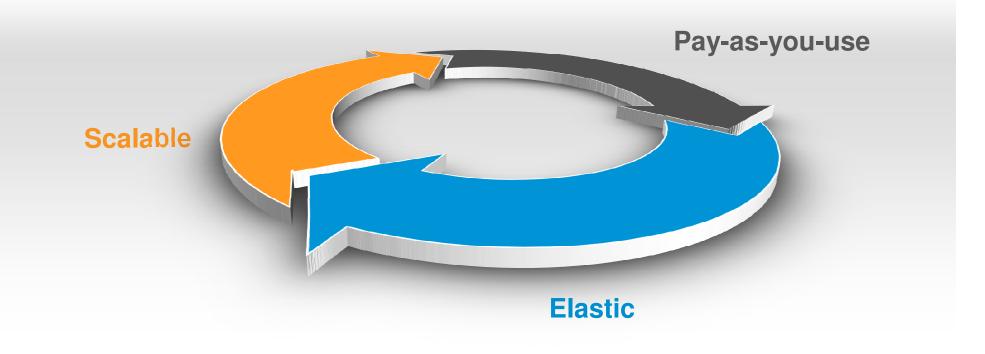


Application development and migration on the Cloud is part of the agenda but customers prefer a unified offering rather than assembling nuts & bolts

### What is Cloud Computing?

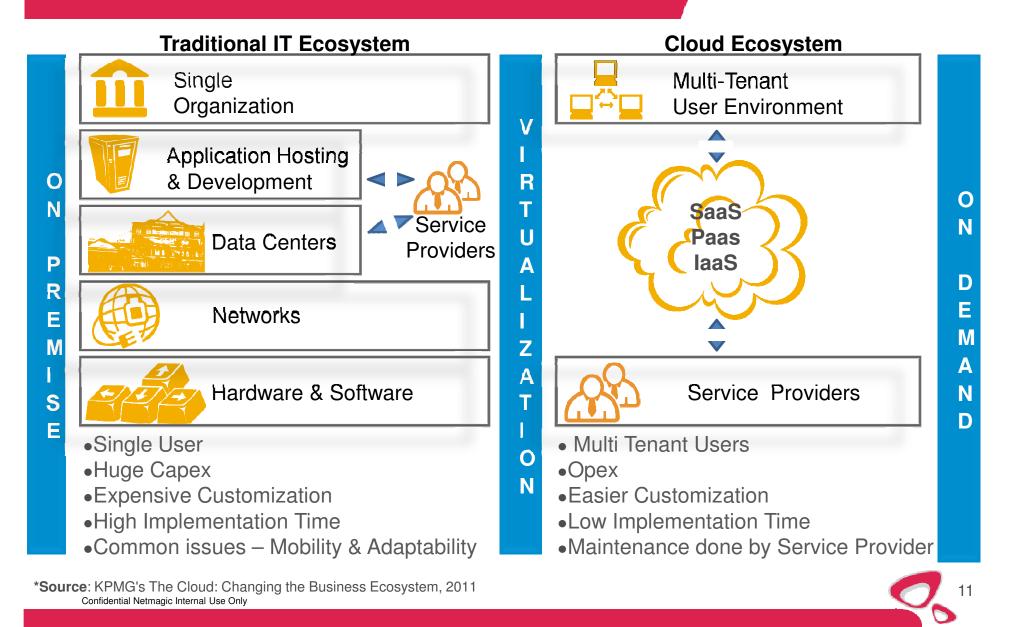


 "A style of computing where scalable and elastic IT-enabled capabilities are delivered as a service to customer using Internet technologies"



### Traditional Ecosystem Vs Cloud\*





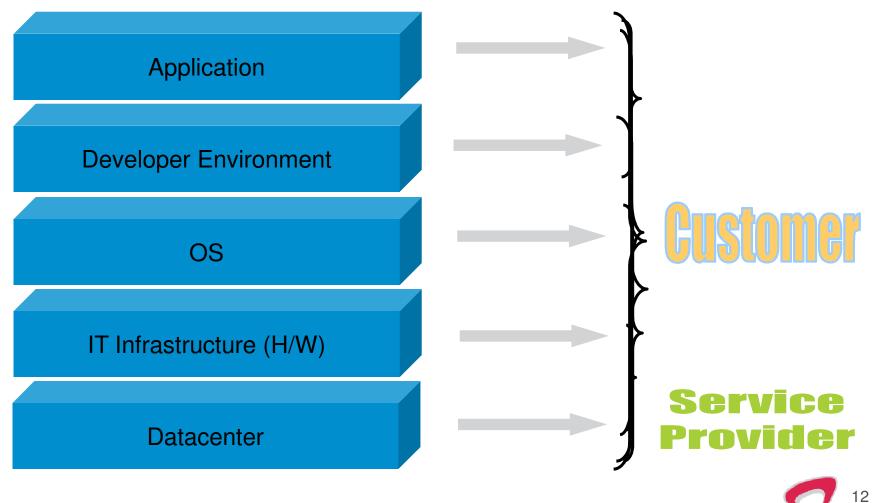
### **Cloud Evolution**



RESPONSIBILITY

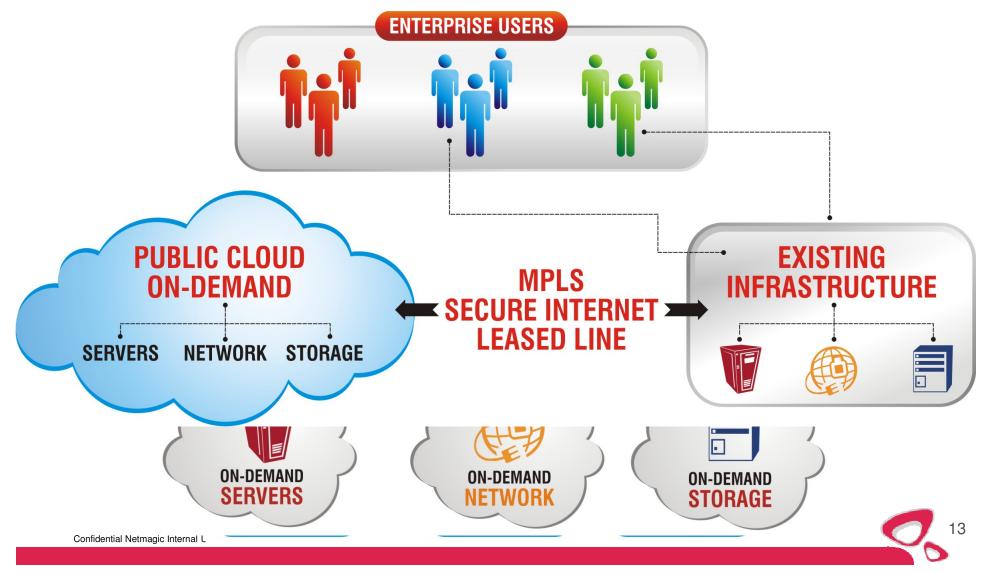
### On PremiseDAASDed. ServerslaaSPaaS SaaS

### IT INFRASTRUCTURE LAYERS

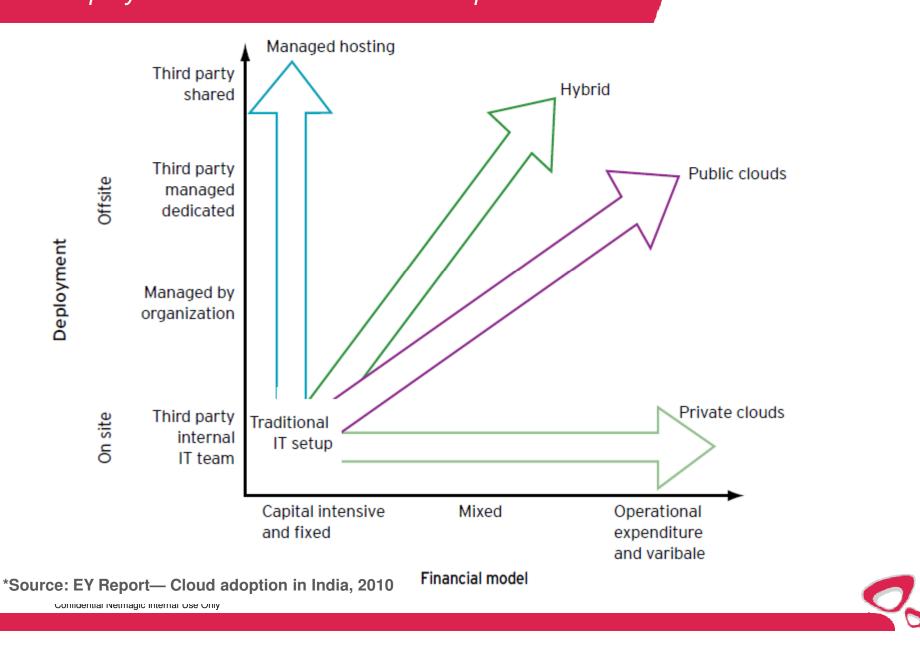


## What is Cloud Computing? (Contd...) Contd...)

### HYBRID CLOUD



## What is Cloud Computing? (Contd...) Contd...)





# Cloud Infrastructure, Characteristics & Deployment/ Adoption

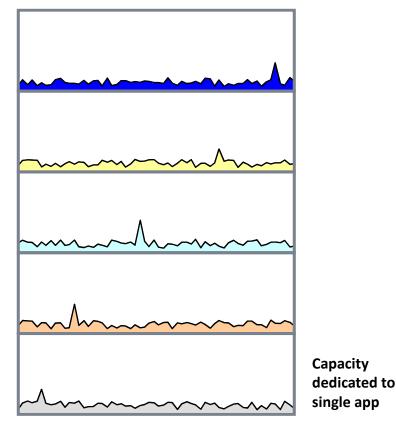


## Cloud Evolution – Need for Virtualization



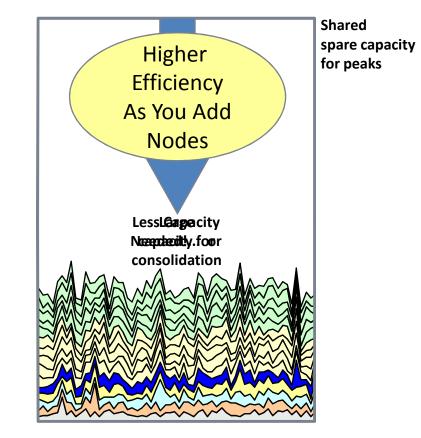
Sharing of excess capacity (Consolidation)

Traditional deployment 5 servers, 5 separate applications



5 apps - Utilization ~ 15%

Pooling and sharing of capacity



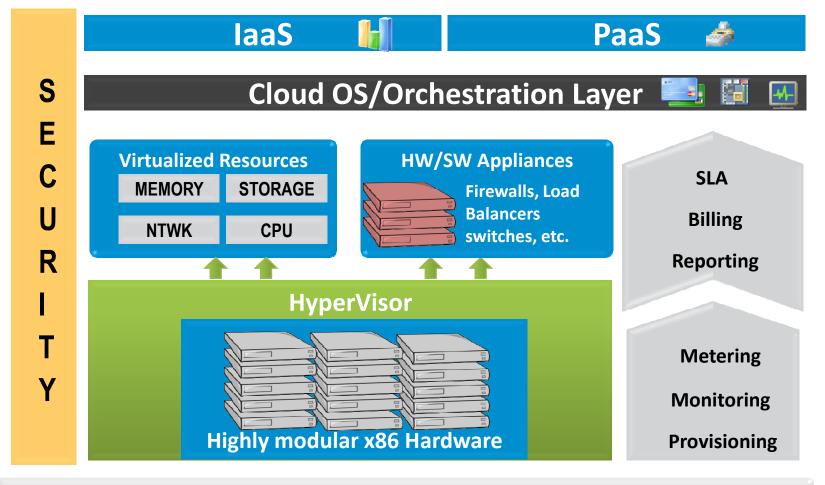
150-appps-Utilization~150%



### **laaS** Framework



### Secure Public API Full Service Secure Customer Portal

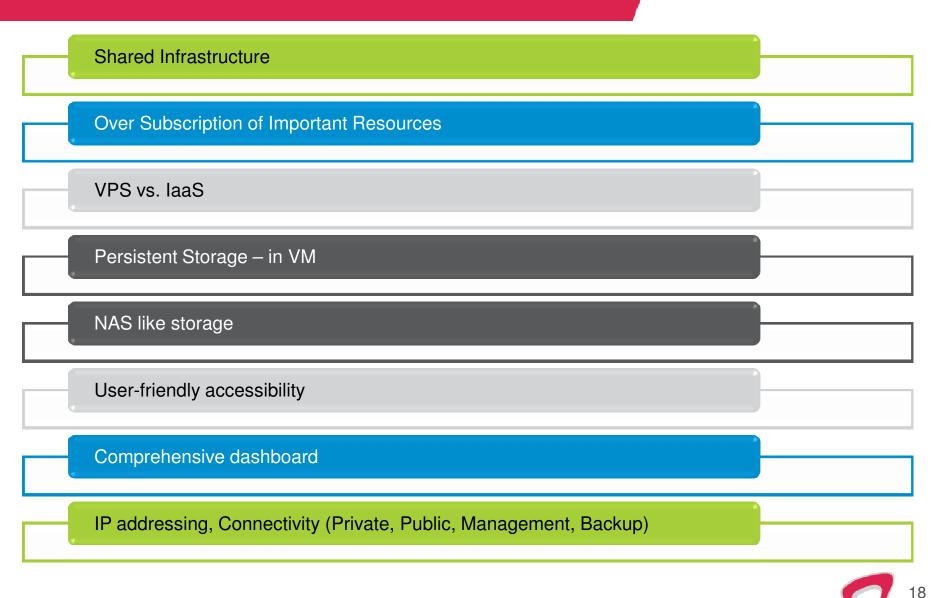


#### **Datacenter Infrastructure**



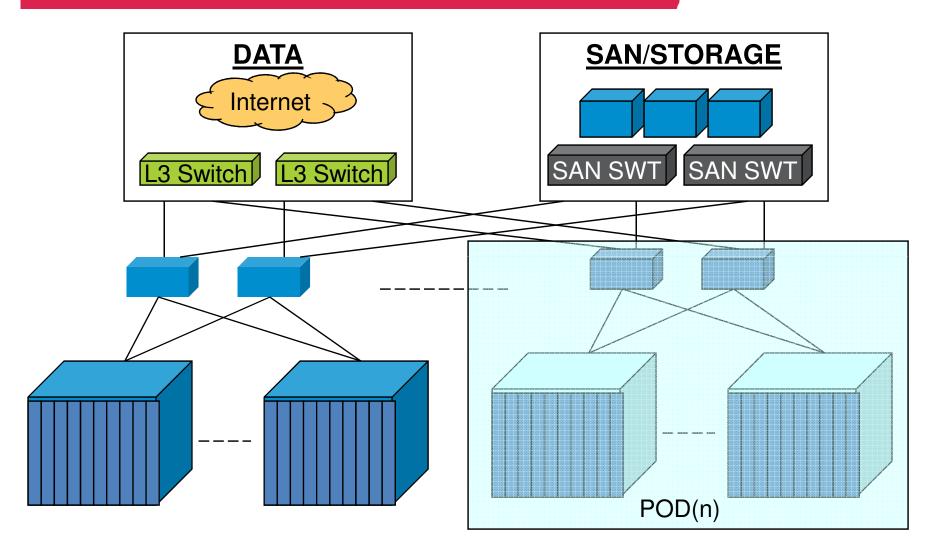
### **IaaS** Characteristics

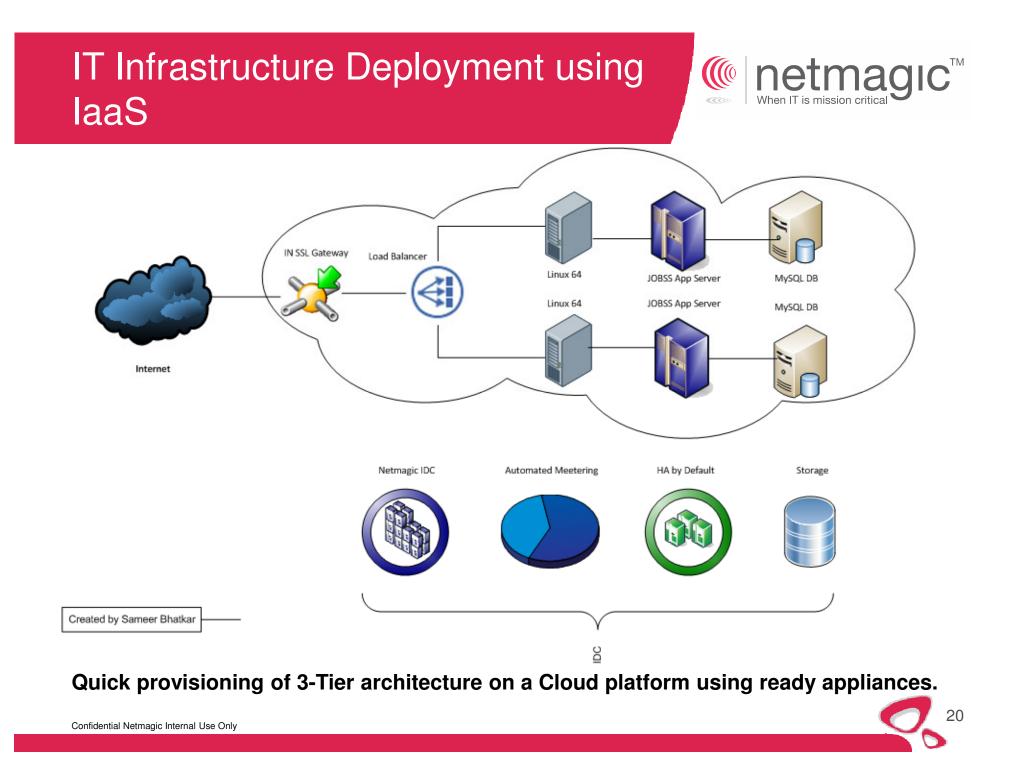




## IaaS Setup Within Availability Zone







Choosing your service Provider	When IT is mission critical
Underlying Infrastructure Stability	
Managed Services Capability	
Latency	
Payment Options	
Capability to provide Hybrid Solutions	
Support Capability and options	
Availability Zones	
Security Aspects	
Access to relevant API's	
Access to a broad and relevant eco-system	
Avoid Lock-ins	21
Confidential Netmagic Internal Use Only	

# Building Successful Applications in the Cloud



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Multitenancy vs. Single Customer

Horizontal Scalability

Resiliency (BC & DR) – availability zones

New Applications vs Existing applications

**Build Cloud Ready** 

Security and Compliance

Understand the limitations of SaaS

Compatibility with multiple Access Devices

Focus on your strengths

### What is moving to Cloud ?



#### Sample Workloads

- Online Internet Centric Applications
- Messaging & Collaboration
- CRM, HR
- Development/Test environment
- Standalone workloads
- Infrastructure Management Solutions
- Mobile VAS
- Document Management
- Access archival data online by bringing back archival content

#### **Cloud Buzz**

Online Developer Platform – The new ECO system

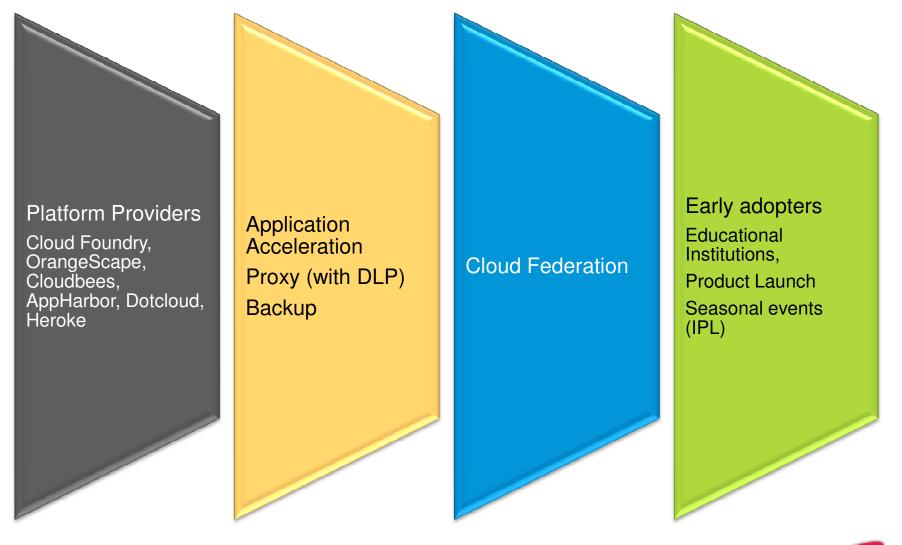
Everything-as-a-Service

Hyperdigitization – Media, News, Entertainment, Gaming, Music, Video, Books, Education, Mobile VAS, Healthcare



### What is moving to Cloud ? (Contd...)







### Summary



- Application Developers and adoption of Cloud
- Choice of Service Providers is Important
- An evolutionary approach
- Need to look for value
- Think long term
- Build for Performance, Functionality, Scalability and Availability.

### Thank You!!! Questions and Comments





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