

# Vodafone Cloud Computing

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2<sup>nd</sup> July 2012

# Agenda

- What is Cloud Computing ?
- Vodafone Cloud Computing
- Virtualization
- Benefits
- Future

## What is Cloud Computing?

- Cloud computing is becoming one of the next IT industry buzz words: users move out their data and applications to the remote "Cloud" and then access them in a simple and pervasive way.
- Google Docs, Google Mail, Linked-In ....



#### **Cloud Computing Model**

- **Software as a Service** Capability to use the provider's applications running on cloud Infrastructure
- Platform as a Service Capability to deploy onto the cloud infrastructure customer-created or customer-acquired applications developed using programming languages and tools supported by the provider
- Infrastructure as a Service Capability to provision storage, networks and other fundamental computing resources, offering the customer the ability to deploy and run software, which can include OSs and applications



#### Virtualization

 Technique used in Cloud computing. By consolidating many instances of (virtualized) servers on a single physical server, service providers lower their hardware expenditures





# **Vodafone Cloud Computing**



#### **Benefits**

- Up to date with Technology
- Strong Security Controls
- Reduced Downtime
- Redundancy & BCP

- Optimized server utilization
- Cost Saving
- Dynamic scalability
- Reduced time for implementation



#### Future ..



- Cloud Email Spam
- Cloud Internet Proxy
- All IT Services Hosted on the Cloud
- Cloud Storage Services
- Telecommunication Service Providers
  well positioned
- So are there any <u>THREATS</u> ??
  - Social networking website LinkedIn has said some of its members' passwords have been "compromised" after reports that more than six million passwords had been leaked onto the internet.
  - Trust is a major component in the cloud computing business model.



# **Thank You**

#### Any Questions or Comments ?

8 	Colocation	Managed	Cloud
Time	Weeks to Months	Days to Weeks	Minutes
Scalability	Slowest, Rigid & Costly	Slower, somewhat flexible, Costly	Instant, Flexible, Pay- per-usage
Cost	High CapEx	Costly, sometimes month/year contracts, no CapEx	No contracts, usage based, no upfront costs
"Green"	Low	Low	High - virtualized
Pricing model	<u>Buy</u> Servers & Colo costs whether used or not	<u>Rent</u> Servers & Hosting costs whether used or not	<u>Rent</u> based on usage only



- Technology has evolved
- People demand more control
- Instant gratification
- In-house too costly from CapEx and Human Capital
- Colocation for those who want to be physically there
- Managed is not dynamic enough





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