

Cloud Computing with relation to Virtualisation and Security

Agenda

- Background Profile
- What is Cloud Computing?
- Deployment Models
- Cloud Types
- Virtualisation Influence on the cloud
- Security Concerns
- Security Standards and Governance
- Next Generation IT

Background Profile



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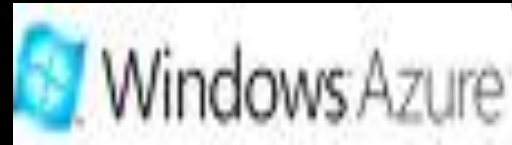


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What is Cloud Computing?



Cloud Service Providers



Deployment Models

- **Infrastructure as a service**

Delivery of Compute Resources

- **Platform as a Service**

Bespoke set of software

- **Open Platform as a Service**

No vendor lock in

No software constraints

- **Software as a Service**

Hosted Standard applications

Public Cloud

Services are provided via an internet browser via web browser from a 3rd party sharing resources, billing on an pay as you go basis to an end user

Private Cloud

Computing resources within a corporation that serves only that corporation with a protected Firewall

Hybrid Cloud

Key Features

- Business Agility
- Device and Location independent
- Lowered Costs
- Reliability
- Security
- Maintenance
- Metering

Power of Virtualisation



Virtualisation Influence On The Cloud

- Solaris Containers
- Xen Hypervisor
- Logical Domains
- Virtual Box
- File systems ZFS
- Virtual Symmetric Multiprocessing
- Virtual High Availability

Fundamentals

You must keep track of everything literally! You own the business drivers for your organisation.

Security Concerns



Security Questions To Consider

- What is the Cloud Vendors Security Policy
- Do they stipulate clear S.L.A and service management
- Are they aware of governance compliance if data is held cross border data transfers
- Are customer's allowed to inspect cloud facility, do they have a recovery location
- How deep is vendor lock in
- Ask about Backup and failure

Security Standards

- ISO 27001- Information Security
- BSI 25999 – Business Continuity Management
- SAS 70 standards – Important for Data Centre
- PCI – Credit Card standards
- ITIL Service Management

Standard Organisation

- Cloud Security Alliance
- Open Cloud Consortium
- Distributed Management Task force (DMTF)

Is Cloud Computing The Next Generation IT

- Yes we are all in this together!
- Its not a passing fad, it's evolving rapidly
- Look back at where we've come from 1960's and where we are now HAPSC
- Its about improving our technology, bandwidth, cable, fibre optics, the infrastructure capacity that holds it all together.
- There's more to come from the next generation "the little one's do like gadgets"

Thank you for your attention!