

Infrastructure as a Service: Cloudy, or just plain hot air?

Tony Lucas – Founder & Director

Flexiant Ltd

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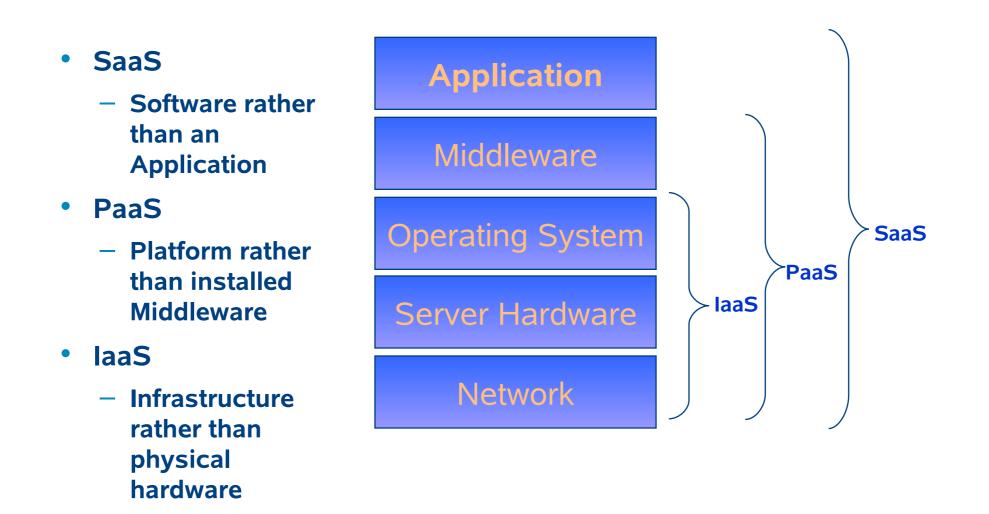


Background

- Hosting websites and infrastructure since 1997 as XCalibre
- Developing laaS/Cloud software since 2004
- Launched Europe's first (and the world's second) laaS platform: FlexiScale in 2007
- Developed Infrastructure as a service software: Extility
- Span off FlexiScale and it's IP into Flexiant in December 2009



Key Areas







- Complete software stack to provide Infrastructure as a Service
- Server/VM/Network/Storage Management
- Admin and Customer Self Service UI
- Complete Billing Platform
- Licensable on a per core basis



So why did we build it?

- Buying
- Up front Capex
- Extended provisioning
 - -Purchasing hardware (1 week)
 - -Delivery (2 weeks)
 - -Installing Equipment (1 day)
 - -Installing Applications (1-5 days)
 - -Configuration & Testing (1-5 days)

-Total: 4-6 weeks (minimum)



Traditional Infrastructure

- Ongoing issues
 - -Underutilisation
 - Typically 10-15% utilisation
 - If for office hours use, only used for 23% of the month
 - Overall only 4% utilisation!
 - All that power wasted!
 - -Hardware redundancy
 - Redundant configurations or spare hardware
 - -Maintenance requirements
 - Costly out of hours hardware or software maintenance for upgrades and fault fixing may be required.
 - Our datacentres were in London/SE England
 - -Fixed capacity/configuration
 - Complicated or impossible to reconfigure easily to other tasks



Pain Points

- Hardware
- Power
- Provisioning
- Fault finding/downtime



Infrastructure as a Service

- Contend servers using virtualisation

 Improving power utilisation and CapEx ratios
- Provision within minutes
 - -Eliminating provisioning overheads
- Self service via Web Interface or API.
 - -Delegate control to customers
 - -Integrates into existing back office systems.
- Hardware/OS Separation
 - -In built hardware redundancy
 - -Easy maintenance management
 - -Forced downtime is eliminated
- Redelegation of resources
 - -Trivial to redeploy resources to other requirements



• Questions?