

The Cloud is an Attitude, Not a Place

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Spatial Vision Creative sustainable solutions

Cloud Hosted



Cloud Built



C∎∍s∪le



Confice 365



Software

Windows Azure

Data.

Platform 5 heroku





Infrastructure









Most enterprise cloud projects at present focussed on IaaS

Many struggle to overcome "on premise" issues

Some examples...









- Existing on-premise solutions rarely suitable for direct cloud migration
- Migrating a single business system which depends on corporate services/data raises challenges:
 - What goes and what stays?
 - How do the separated components talk?
 - How is authentication managed?
 - Software licensing costs often an impediment
- Many enterprise software components not designed for cloud use
- Managed cloud services not necessarily much cheaper



- Migrating existing enterprise solutions to laaS achieves only some of the value offered by cloud
- The full value of cloud is to found in designing and building solutions from cloud components
- For simpler requirements this may be SaaS
- For more complex requirements, this may comprise:
 - A number of SaaS "plugged" together
 - A custom implementation on PaaS or IaaS, probably leveraging one or more SaaS

Example cloud-built solution



Cloud-built Principles



- Consume services where available, don't build them
- Embrace the open cloud not a "vendor-fenced" version
- Services will be technically heterogeneous
 - Need standards (formal or otherwise) to integrate them
- Re-think authentication and authorisation eg Oauth or Facebook (!)
- Absolute performance and uptime will often be out of your control
- Cloud-built is similar to BYOD it offers great benefits but you don't get it all your own way (and trying to do so kills it!)
- Think of your on-premise components as just another SaaS

Cloud-built Future



- Cloud-built different to bespoke or COTS or open-source (although it can use all three)
- Based on the "commoditisation" of software functionality
- Enterprise solutions built from SaaS "building blocks"
- Data components may be widely spread
- Data security and privacy challenges (but our social and private lives are there already!)



 Many challenges to be solved, but this is the future, not cloud hosting