Is the owned datacentre dead?

Clarifying the business impact of technology

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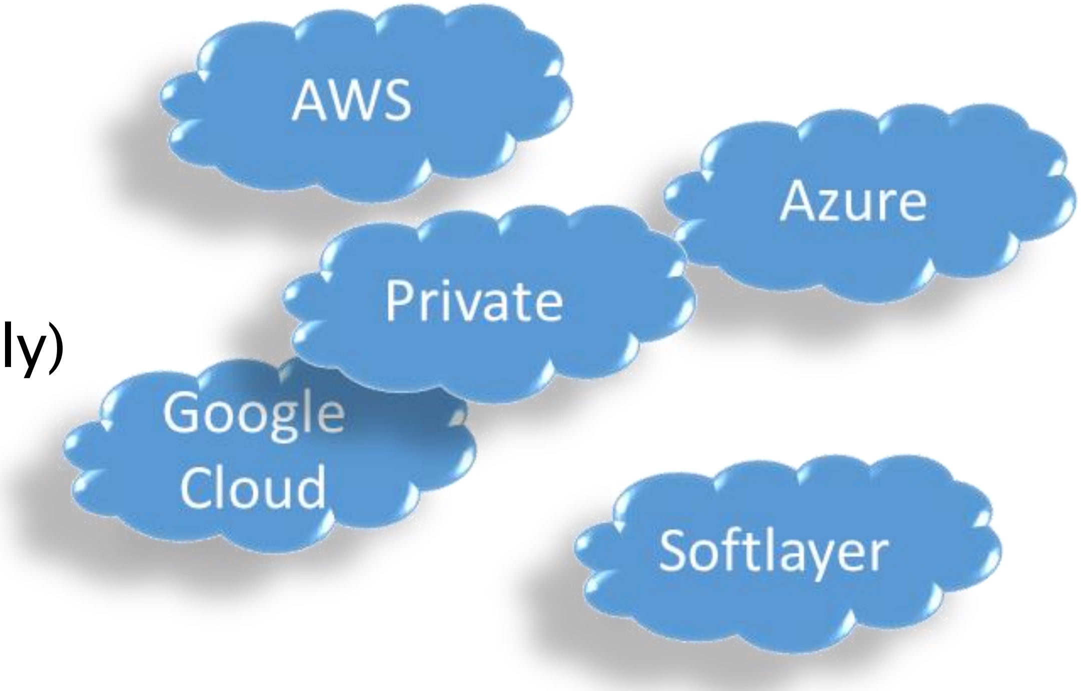
The onward creep of cloud

- Pre-cloud utilisation rates
  - One workload per physical server rates <10%
  - HA brings this down to <5% or even <2.5%
  - Virtualisation helps – but not by as much as hoped
  - Cloud offers 'elastic resource sharing'

- Business flexibility
  - Rapid time to capability
  - Shared elastic resources
  - More predictable cost model (generally)
  - No need to pay for full-time technical skills



Different technical models

- On-prem
  - Everything owned, run and managed by the end-user organisation
- Co-location
  - Facility run by third party; some aspects of networking
  - All IT equipment and software stack run by end-user organisation
- IaaS
  - Facility, IT equipment run by third party
  - Software provisioned, managed by end-user organisation
- PaaS
  - Facility, IT equipment, part of IT stack run by third party
  - Part of software stack managed by end-user organisation
- SaaS
  - Facility, IT equipment, software stack run by third party
  - End-user organisation uses service

Different operating models

- Private cloud
  - Everything within an IT environment implemented, operated and managed by an end-user organisation
- Public cloud
  - Everything within an IT environment implemented and operated by a third party provider
- Mixed cloud
  - Different workloads being run in either private or public clouds
- Hybrid cloud
  - Workloads being run across an integrated private/public cloud platform
- Hybrid IT
  - Brings in ‘legacy’ systems – e.g. one application per server; clusters, mainframes…

Who owns/runs what?