Cloud Deployment Models

Cloud Deployment Models

- There are three different cloud deployment models:
  - Public Cloud
  - Private Cloud
  - Hybrid Cloud

- How are these different ? Which should I choose ?
  - Where is the data stored ?
  - Do I need my current on-premises infrastructure ?
  - Where will my Apps run ?

Cloud Deployment Models - Public Cloud

❑ Azure Public Cloud is owned and operated by Microsoft and computing resources (i.e. servers, storage) are delivered through internet

❑ Why Azure Public Cloud ?
   ❑ Pay-as-you-go pricing
   ❑ No hardware maintenance or updates
   ❑ Elastic, Agile, Highly scalable and Adaptable
   ❑ Start immediately and go global in minutes

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Cloud Deployment Models - Public Cloud

- ❑ Why not Azure Public Cloud ?
  - ❑ Don't have 100% flexibility over hardware
  - ❑ Legacy applications running on older/specific hw
  - ❑ Potential legal constraints related to data location
  - ❑ Potential security standards or conditions that can't be met in public cloud environments

Cloud Deployment Models - Private Cloud

❑ Also known as *"traditional on-premises"*, resources are deployed in your on-premises DC, using virtualization and resource management tools – VMware, Hyper-V, OpenStack

❑ Why Private Cloud ?
  - ❑ Full control over infrastructure (you are responsible for management and OS patching)
  - ❑ Meet strict security, compliance or legal requirements
  - ❑ Accommodate legacy apps
  - ❑ Full flexibility over desired configuration

Cloud Deployment Models - Hybrid Cloud

- ❑ Hybrid clouds combine public and private clouds, allowing data and applications to be shared between them

- ❑ Why Hybrid Cloud?
    - ❑ Greatest flexibility - run apps both in public cloud and continue to run legacy or *sensitive* apps on-prem
    - ❑ Use on-prem servers in order to meet security, compliance and strict regulations
    - ❑ Continue to run apps on out-of-date hardware or OS, until redesign is possible for running in the cloud

Cloud Deployment Models - Hybrid Cloud

❑ Why not Hybrid Cloud?
- ❑ Related to on-prem cloud deployment model: specialized IT personnel, money and pricing model – potential large upfront investment

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Thank you