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Cloud Migration Maximize with Architecture, Services & Security Orchestration?

Jan Seffinga, Partner, Deloitte | 27.08.2019

Why go into the cloud? Key drivers and characteristics





Increased Business Agility

Gain greater flexibility on architecture and sourcing, scale up and down as needed, maximize efficiency, accelerate time to value, reduce time to start up and complete projects



Reduce IT capital spending

Use of "pav-as-vou-go" model instead purchase/lease Move IT costs from CAPEX to OPEX



Innovation

Shift from asset ownership to service consumption Tap into private sector innovation Encourages entrepreneurial culture Better linked to emerging technologies



Reallocation of resources

As routine processes are automated through Cloud, resources can be re-positioned to higher value-add activities



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Scalable

React quickly to increased business demand, acquisitions, or new business models without large CapEx expenditures and increased long run-off periods

Self-Service

Creating environments, enhancing capabilities, adding capacity with less labor and reduced lead times

Multi-Business

Cloud computing delivers shared capacity across business lines, reducing duplicate environments

Security



Platform security, tenant segregation and security-aware maintenance processes as key principles

Characteristics



Dynamic

On-Demand Provisioning. The ability to add capability and capacity as rapidly as business requires

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Flexible Pricing

Recapture capacity and spend for use in other areas as business demands fluctuates



Digital-Based Architecture

Cloud architectures are based on virtualized environments defined by their use not by hardware

Cloud Strategy - Serve as the initial entry point helping you set the tone, pace, and direction for your Cloud transformation journey



Success factors for a secure and compliant cloud environment

Protecting and monitoring data in a manner that complies with security and applicable regulatory mandates without specific requirements and implementing effective security controls remain top challenges for many organizations

Data Protection

- Securing data as it is moved, processed and Determining compliance requirements and stored in cloud is critical for organizations reputation and financial as well as compliance plan requirements Identifying applicable data protection Adhere to the principles of cyber risk mechanism (encryption, tokenization, masking data loss prevention (DLP), etc.) and of outsourcing arrangements understanding specific management aspects will be critical to implement data security Organizations should evaluate data residency issues Security Monitoring in the cloud Address new visibility and detection the security posture requirements and implement security monitoring that is "cloud aware"
- · Decide whether to use on-premise enterprise Security Information and Event Monitoring (SIEM) o host in the cloud
- Enhanced procedures and SOC (Security) Operations Center) for cloud monitoring are needed to provide the organization with visibility to cloud activity

Clear asset ownership

 Organizations should have defined asset owners and consistent tagging within their cloud implementations

Regulatory Compliance

- factoring impacts as part of the solution delivery
- management for public cloud as with other forms

Automating Security in the cloud

- Leverage the DevSecOps model to automate security in cloud (security as code) and enhancing
- Organizations need to consider the target model for a cloud security team (DevSecOps) and what are the roles and outputs of this group

In the digital age, the Technology Operating Model will be affected by nine big shifts





Cloud Migration Considerations



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Speed of Migration

The most suitable migration approach is defined by a comprehensible, transparent decision framework



A suitable Cloud Migration Methodology helps running a successful cloud migration*



For mass migrations, Deloitte recommends setting up an Application Migration COE to benefit from economies of scale and efficiencies * Deloitte Methodology To become "Cloud Native" and release better quality in less time, business, development and operations need to be closely aligned throughout the service lifecycle



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