Building SaaS Applications on Microsoft Azure

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Configuration / Quick scale-out Personalization Normally a single code set

Business

What is SaaS

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the Software is

Hosted centrally

Accessed through internet

Normally accessed using thin client (browser)

- Subscription based rather than Purchasing
- Normally pay-per-use • payment models

Operations

Software as a Service (SaaS) – Various Dimensions

Easy Deployment and upgrades

SaaS is a Software Delivery Model ("As a Service" as against "Licensed") where

Technology

- Multi-tenancy ٠
- Data segregation

SaaS – Different Levels





Source: MSDN Article 2006 <u>http://msdn.microsoft.com/en-us/library/aa479069.aspx</u> www.zensar.com | © Zensar Technologies 2011

SaaS Characteristics





SaaS Application on Microsoft Azure Combining the power of SaaS and Cloud

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- Scaling:
 - SaaS application requires Scaling Azure makes it very easy not only to scale-up but also to scale-down
 - Application can be divided into multiple web / worker roles to be scaled according to requirement
- Application can be deployed to specific geography
- Pay-per-use model of SaaS application is backed up by the same model at the platform level
- Use of Content Delivery Network for large BLOB content
- Other inherent Cloud advantages
 - No upfront infrastructure cost
 - No upfront licensing cost

Case Study – ZenAutoPro



ZenAutoPro is a cloud hosted (Microsoft Azure) application for Automation Test Scripts generation that can be used by multiple customers / internal testing teams on "As A Service" basis.



- Possible reduction in licensing cost
- Reduced Infrastructure and Software maintenance cost
- Easier deployment , maintenance and support
- Dynamic scalability (easy scale up and scale down)



SaaS Framework System Architecture





Mapping a typical SaaS application to Azure



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Summary

Benefits of Framework based approach on Azure



- Flexibility of starting-small still maintaining the scalability
- SQL Azure allowed Multi-tenancy to be achieved different schema level in the same database
- Very small learning curve for team members
- Tenant Management and Metering/Billing became highly configurable
 - Tenant name and fields, UDFs, Subscription types, User defined transactions, Billing cycles
- Configurability
 - At SaaS provider level
 - At Tenant level

Thank you



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