Ariett on the Microsoft Azure Cloud

The Ariett Cloud is a multi-tenant Cloud Service, hosted on Microsoft Azure, with client dedicated databases on Microsoft SQL Azure. Documents and log files are stored in Microsoft Azure Storage in client specific storage accounts. The service consists of multiple, scalable on demand, load balanced instances, as part of the Microsoft Cloud Platform as a Service.

SQL databases both locally replicated and replicated to a geographically isolated data center with point in time restore. Storage data is also locally and Geo-replicated. Unlike a typical virtual machine deployment, Microsoft automatically maintains and performs required software updates to the underlying software services and operating system providing an up to date, high performance scalable platform for Ariett solutions.

What Infrastructure Does Your Organization Need to Provide to Match the Power of the Microsoft Azure Cloud Platform?

Clustered SQL Server Instance

On Premise you would need to install and configure Microsoft Cluster Service and SQL Server instances in an active/active or active/passive configuration with geo-redundant capability – there are at least three separate instances of your data on Azure.

Replication Topology

On premise create a mechanism to transfer the data from the primary site to the secondary site using log shipping, replication disk-level replication or another technique, depending on your needs.

Database Tuning

On premise in larger systems, tuning SQL Server for high performance can be very difficult and involves CPU, memory, I/O affinitization, degree of parallelism, and many other considerations.

Testing

On premise plan and execute a disaster-recovery plan once a year to make sure it's working as intended.

Web Servers

On premise purchase Dual Windows 2012 IIS servers, install and configure software

- Provide a multiple Web Server environment with automatic load balancing and fail-over service.
- On premise maintain all servers and upgrade software as it becomes available – SQL server, Windows Server, IIS server, Ariett products.
- Scale all servers on demand as transaction volume dictates.

Ariett on Microsoft Azure Cloud Platform

With Ariett's Cloud solution on the Microsoft Azure Cloud platform, Ariett and our customers gain the benefits of Microsoft's Cloud Security. Ariett Cloud solutions rely on Microsoft's security and compliance audit standards. The organization inside Microsoft that operates the global data centers is called Global Foundation Services (GFS), and as you would expect, security is at the foundation of how they design, manage and operate the Microsoft infrastructure. Microsoft provides a trustworthy cloud infrastructure through focus on three areas:

- Utilizing a risk-based information security program that assesses and prioritizes security and operational threats to the business
- Maintaining and updating a detailed set of security controls that mitigate risk
- Operating a compliance framework that ensures controls are designed appropriately and are operating effectively

GFS operates a comprehensive Control Framework and predictable audit schedule. The Control Framework has three central elements, a business continuity program, a risk management program and an audit program. Please visit [http://azure.microsoft.com/en-us/support/trust-center/] for complete documentation on the Microsoft Trust Center and Compliance.

Ariett Cloud Database Backups

Your Ariett Cloud database backups are continuous and with a primary backup in the same datacenter and a secondary backup in a geographically isolated data center – both with a 14 day point in time restore. The primary datacenter is located outside of central Illinois, and the secondary datacenter is in Texas. The time before the backup becomes available is under 30 seconds from the same data center and is under 12 hours from the isolated data center. Ariett documents are stored as BLOBs in blob storage, which have 3 zone redundant backups and 3 backups from a geographically isolated data center, available for recovery to the live data center upon a disaster outage.

Microsoft Azure SOC 1 and SOC 2 SSAE 16/ISAE 3402 Compliance

Azure has been audited against the Service Organization Control (SOC) reporting framework for both SOC 1 Type 2 and SOC 2 Type 2. Both reports are available to customers to meet a wide range of US and international auditing requirements.

The SOC 1 Type 2 audit report attests to the design and operating effectiveness of Azure controls. The SOC 2 Type 2 audit included a further examination of Azure controls related to security, availability and confidentiality. Azure is audited annually to ensure that security controls are maintained.

Audits are conducted in accordance with the Statement on Standards for Attestation Engagements (SSAE) No. 16 put forth by the Auditing Standards Board (ASB) of the American Institute of Certified Public Accountants (AICPA) and

International Standard on Assurance Engagements (ISAE) 3402 put forth by the International Auditing and Assurance Standards Board (IAASB). In addition, the SOC 2 Type 2 audit included an examination of the Cloud Controls Matrix (CCM) from the Cloud Security Alliance (CSA).

Scope: The following Azure features are in scope for the current SOC 1 Type 2 and SOC 2 Type 2 attestations: Cloud Services (inc. stateless Web, and Worker roles), Storage (Tables, Blobs, Queues), Virtual Machines (inc. persistent virtual machines for use with supported operating systems) and Virtual Network (inc. Traffic Manager). Customers should contact their Microsoft representative to request a copy of the SOC 1 Type 2 and SOC 2 Type 2 reports for Azure.