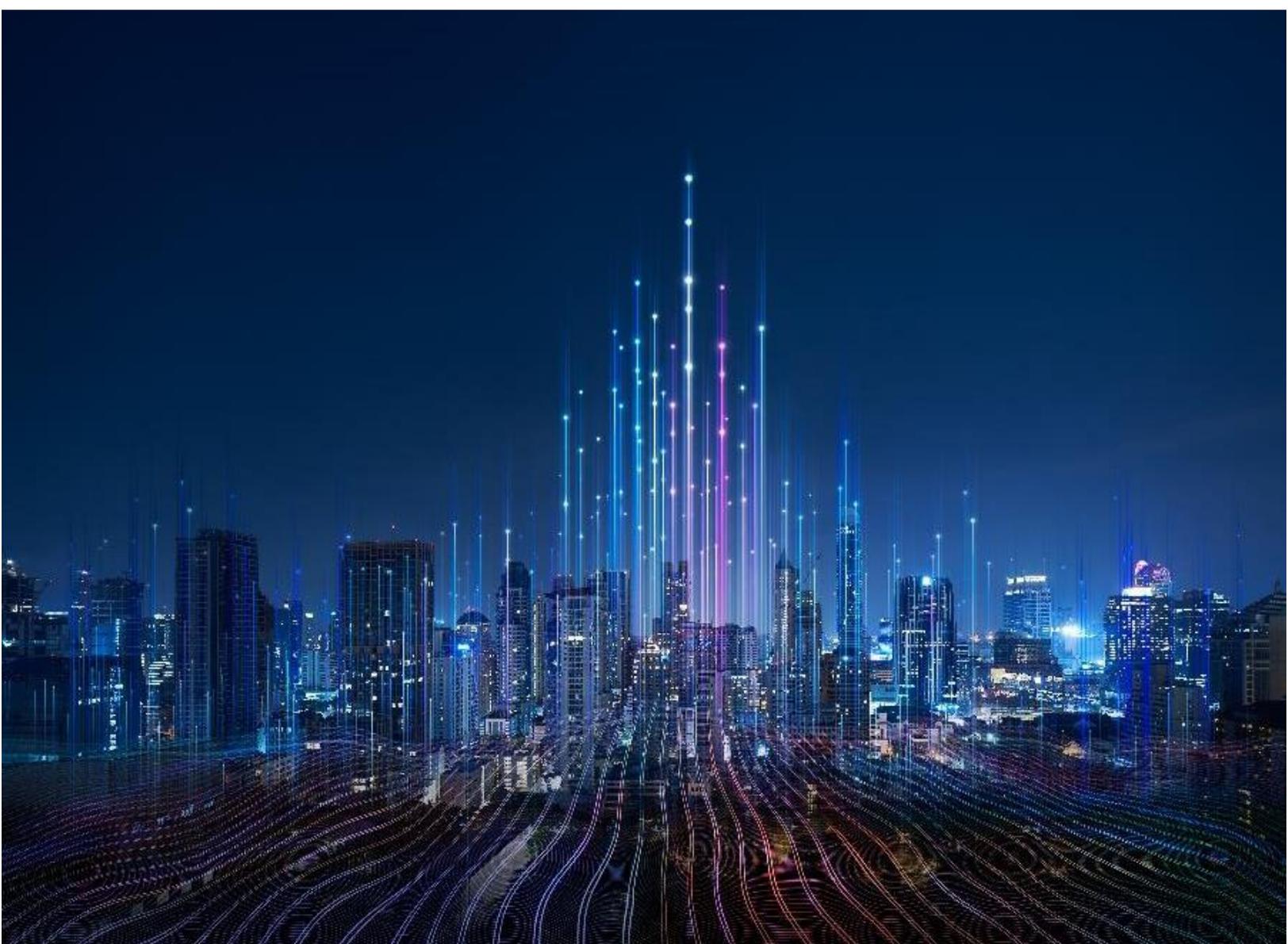# Azure Cloud Assessment and Migration Service

Assessment of migration possibilities, preparation of a plan, cost estimation.

Introduction

As organisations look to address rising costs and growing demands on the data centre, the need for resources that can help them develop and implement cloud strategies are becoming a must have to achieve greater IT agility. From assessing current on premise and cloud environments, to building and executing a clear migration plan, this service offering enables customers to acquire and utilize the appropriate cost effective services best fitting their needs.

Solution introduction

The Cloud Assessment and Migration Service is designed to help develop an effective strategy toward fully integrating Cloud and hybrid IT whilst providing a lower risk and reduced complexity.

Cloud Assessments and migrations vary on scale, duration, cost and complexity and can be tailored to fit your needs. R Systems works hand-in-hand with customer's IT team to provide the necessary level of expertise required.

Our service is relevant for all sizes of migration; from the single server workload to large enterprise scale challenges.

Solution

R Systems can help you become cloud ready. The first step to migrate your IT solutions to the cloud is to see if the infrastructure and business is ready to make the move. Our cloud assessment and migration service gives you a clear understanding of your customer's infrastructure. This enables us to quickly and easily produce a Statement of Work with a final price for a guaranteed outcome (workloads assessed, migrated and tested)

Our certified and experienced consultants analyse the current infrastructure, understand your business goals and requirements, and then create an appropriate plan for cloud migration and deployment.

Once the assessment is complete, business applications are migrated to the cloud following a tested and highly automated process with minimal down time.

Our Migration Service for cloud uses best practice methodologies to assess the infrastructure and applications, plan and design the migration, and implement a consolidated, flexible, and resilient server environment.

Once your migration is complete, R Systems can offer a fully managed IT service, depending on your in-house resources, skills and requirements.

1.   The Cloud Assessment Process:

Our assessment services are carried out in the following phases:

Assess and analyse – In this phase we gather all the information about the customer's infrastructure (e.g. servers, storage, network, backup and applications) using our platform tools (Microsoft Assessment Planning and Azure Site Recovery). We collect data and work with customer to analyse business impact. Our experts will analyse the data for readiness of the customer's infrastructure for cloud migration. Based on the analysis, adoption roadmap scenarios are created for the client.

Adoption Roadmap – In the adoption roadmap phase we map the on premise infrastructure and applications to suitable cloud workloads. We clearly outline what will be moved in each phase of the migration or adoption plan.

Best Practices – Our migration roadmap recommendations are based on best practices to keep the risks and migration failures to a minimum. We work in close collaboration with Microsoft.

Deliverables:

- Assessment plan (Starting Date & Estimated Completion Date)

- Road-map for Azure migration

- Business impact

- Migration Plan (Pre- & Post Migration Phase)

- User Acceptance Testing (UAT) Instructions

- Post migration support – mitigate risk with 2 weeks post migration support

- Project Closure

2. Migration cost calculation

To make the cost of migration more predictable our cost calculation process is based on the number of VMs. We clearly define 3 levels of VM complexity and total migration cost is calculated based on the number of each level of VMs summarized. The complexity level definition is clearly connected with migration tools usage possibility.

Virtual Machines (VMs) Complexity Definitions

VM complexity is **Simple** if **all** the criteria described in the below "Simple" column is applicable to the VM.

VM complexity is **Medium** if **one or more** of the criteria described in the below "Medium" column is applicable to the VM.

VM complexity is **Complex** if one or more of the criteria described in the below "Complex" column is applicable to the VM.

Definition		Simple	Medium	Complex
ASR compatible	**Operating Disk Size**	Up to 1024 GB	1024 GB - 2048 GB	More than 2048 GB
	Data Disk Size	Up to 4095 GB	Up to 4095 GB	More than 4095 GB
	Compatible Operating Systems*	Windows Server (2008 SP1, 2012, 2016 64-bit or newer) Linux (listed or newer): Red Hat (5.x, 6.x, 7.x) CentOS (5.x, 6.x, 7.x) SUSE Enterprise (11,12)	Windows Server (2008 SP1, 2012, 2016 64-bit or newer) Linux (listed or newer): Red Hat (5.x, 6.x, 7.x) CentOS (5.x, 6.x, 7.x) SUSE Enterprise (11,12)	Not Compatible
	Virtualized Supported Platforms	VMware, Hyper-V and Physical Server	VMware, Hyper-V and Physical Server	Citrix Platform
Supported Standalone Server		Single domain controller	Multiple domain controllers (2+)	Multiple domain controllers from multiple sites
File Shares		Standalone server	Multiple file share servers	Clustered file share servers
Database Server		Standalone SQL or Oracle Server with databases size <100Gb	Multiple SQL Server, Oracle Server with databases size between 100 and 250 GB	Multiple SQL Server or Oracle with databases size > 250 GB
Application Server		.NET or Java, WordPress or other Standalone application	2 –Tier Application Architecture, Front end and back end server.	3 – Tier Architecture or Distributed Topology application

Integration Services	No Third-Party Integration	Integrated with Third Party Application	Integrated with Third Party Applications
Backup & Disaster Recovery	Server Level backups	Application Level or Databases Level Granular Backups using third party tools e.g. Symantec, Veeam etc.	Site Recovery Orchestration for whole Infrastructure with RPO and RTO
Network	There is no firewall appliance, but servers are behind some kind of firewall (Software or a router-based firewall)	Servers are behind a firewall appliance and behind load balancer (Simple load balancing strategy)	Servers are behind a firewall appliance, load balancer (with Active/Active or Active/Passive), with S2S VPN (single or multi-site) connection
Storage	No NAS or SAN Dedicated Storage	Dedicated SAN or NAS Storage Appliance e.g. Net App, Dell etc.	Multiple SAN or NAS Storage Appliances
Clustering	No Clustered Servers, Applications	No Clustered servers, Applications	Clustered Servers, Applications, Storage

Reference Link for ASR Supported Operating Systems
https://docs.microsoft.com/en-us/azure/site-recovery/vmware-physical-azure-support-matrix

TCO (Total Cost of Ownership) Calculator:
https://azure.microsoft.com/en-us/pricing/tco/calculator/

Key differentiators

- Ensure better cost and performance efficiency with simplified and automated migration techniques.

- Reduce Complexity: Rely on proven experts for guidance and technical skills to address complex requirements.

- Portfolio Expansion: Capitalise on fast-growing market opportunity for hybrid cloud solutions.

- Instant Expertise: Leverage our experience with hundreds cloud projects successfully completed to date.

About R Systems

R Systems provides detailed information to help you identify, deliver, and expand the capabilities of your IT teams. With the best technology and extensive knowledge of cloud development and integration, we work with our customers to provide the right mix of public, private and hybrid cloud capabilities to accelerate business growth.

R Systems is a global leader fulfilling the promise of digital transformation through services based on the latest technologies in the areas of analytics, cloud computing, Internet of Things (IoT), machine learning, as well as automation and robotization of business processes.

We are a comprehensive digital transformation partner for our customers in industries such as telecommunications and digital media, healthcare, finance and banking, manufacturing and logistics, and independent software vendors.

We create value for our customers' businesses and have been strengthening the organization's position for over 27 years with 16 technology centers, 25 offices around the world and 3,000 professionals.

For more information about our services, please contact your local sales team.

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