IBM Consulting

Windows and SQL Server Migration to Azure

Client Presentation









- □ Why Migrate to Azure?
- □ IBM Value Propositions for Migration Journey
- □ <u>IBM Framework</u>
- Migration Tools and Accelerators
- □ Incentives for Migration

What's driving migrations to Azure?



App oriented modernization drivers

Compliance

Application innovation

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Windows Server and SQL Server RUN BEST ON AZURE



Unmatched security

- Get unified security management and advanced threat protection with <u>Microsoft</u> Defender for Cloud
- Proactively secure your server workloads with Microsoft Sentinel, a cloud-native SIEM
- Encrypt data while in use with industry leading confidential computing
- Enable secure and reliable connectivity between edge file servers and Windows Server on Azure with SMB over OUIC



Cloud on your terms

- Bring Azure security, management and governance to any infrastructure with Azure Arc
- Seamlessly migrate your onpremises VMware and Nutanix environments with Azure VMware Solution and Nutanix **Cloud Clusters on Azure**
- Extend your on-premises systems to Azure with <u>Windows</u> Admin Center in Azure, Azure File Sync, Azure Active Directory, and Extended Network for Azure

Outstanding offers and programs

- Get industry leading price

• Save up to 80% with offers such as <u>Azure Hybrid Benefit</u>, 3 years of free Extended Security Updates, and reserved instances, only on Azure Save up to 93% when you move to Azure SQL Managed Instance

performance with SQL Server on Windows Server on Azure

 Get help at every step of your migration and modernization journey with the Azure Migration and Modernization Program

Unparalleled innovation for your Windows Server workloads



Automate configuration and management of Windows Server VMs with Azure Automanage



Patch without rebooting vour Windows Server VMs with <u>Hotpatch</u>, only on Azure





Gain flexibility and consistency with native .NET support in <u>App</u> Service and Azure **Kubernetes Service**



Get leading database performance from fullymanaged, secure <u>Azure</u> SOL



Deep management of Windows Server in a familiar UI right from the Azure portal with <u>Windows</u> Admin Center in Azure

Enable secure mode work by deploying virtual desktops and apps easily with Azure Virtual Desktop

Azure is the cloud that knows SQL Server best

The family of SQL cloud to edge databases



SQL Server on Azure Virtual Machines

Best for lift and shift and/or workloads requiring OS-level access

Infrastructure-as-a-Service



Azure SQL Managed Instance

Best for modernizing existing apps



Azure SQL Database

Best for supporting modern cloud apps

Platform-as-a-Service

Azure SQL enabled by Azure Arc

Run Azure SQL on premises and in multicloud environments



Azure SQL Edge

Best for extending apps to IoT edge

Edge Computing

Which Azure SQL offering is right for you?

App Innovation



* Use Azure Arc to enable the same services in your datacenter or on the cloud of your choice, when a hybrid or multicloud approach is required

Benefits of PaaS

- Lower administrative burden
- No End of Support hassles
- Fully managed and always up to date
- Dynamic resource scaling
- Built-in high availability and automatic backups
- Multimodel capabilities

Benefits of IaaS

- Maintain OS-level control
- Easy lift-and-shift eliminates app refactoring
- Faster path to the cloud

Your business intelligence tools in Azure

Move to Azure VMs or choose managed services for data integration and analysis

SSIS Your solution for building data integration and transformation solutions	Azure Data Factory (ADF) SSIS	
SSRS Your platform for creating, deploying, and managing mobile paginated reports	Power BI (PBI)	
SSAS Your service for creating and analyzing multidimensional data models	Azure Analysis Services (AAS)	







IBM Value Propositions for Migration Journey

IBM's Cloud Migration Service offerings help our clients accelerate modernization initiatives, reduce technical debt, protect legacy investments, while minimizing business risk and improving business agility by moving their workloads to the cloud faster, cheaper, and more efficiently through a combination of:

- Automation powered by assets such as IBM Cloud Consulting Accelerator
- **Data analytics and insights** through IBM's deep expertise in AI and ML models/services
- Augmented by assets from Neudesic and IBM Research • **Dedicated** Azure Migration Factory experienced in cloud native migration tools
- Staffed with **certified** professionals Sustainability by design - Target environment is right sized, and our architecture is optimized to reduce energy consumption. Under-utilized application components are either optimized or decommissioned.



the Discovery phase

Automation and pre-defined Discovery patterns enable these savings over traditional methods



Accelerate modernization initiatives. reduce technical debt, while minimizing business risk and improving business agility

Enabled by pre-defined design patterns



delivery of migration outcomes

Enabled by 'Migration-as-a-Code' utility and 200+ pattern libraries in execution

20% reduction in

business risk

Enabled by well defined pathways to application modernization





optimizing savings and equivalent carbon credits

IBM Value Propositions for Migration Journey



40% More Cost **Effective**

With economies of scale and proven processes

60% Faster **Time to Value**

Leveraging heavy automation and established templates

Reduced **Delivery Risk**

With proven frameworks backed by 10,000+ development hours

Single Team, **Agile Delivery Model**

Disciplined delivery with a geographically aligned team to reduce errors

IBM Framework & Tooling for Windows Server Migration to Azure



IBM Consulting

Objective:

Optimize and right size the VMs to reduce carbon footprint

Tooling :

Azure Sustainability Calculator
Azure Well Architected Framework
Turbonomic
Sustainability Advisor

Sustainability



IBM Framework & Tooling for SQL Server Migration to Azure



IBM Tooling Strategy – IBM IPs

We leverage best of Azure tools and IBM IPs. We differentiate through our IBM research, consulting & acquisition tools.



Calidris

Automates rehost pattern for Windows, Linux, Hyper-V and VMware to Cloud

Arina Provides infrastructure and application management tool to provision virtual desktop.

Move2Kube

Supports Re-Platforming of Java, Cloud Foundry, Swarm, Docker to Kubernetes and Open Shift.

Execute

IBM Consulting Cloud Accelerator (ICCA)



Reduced delivery risk with Data Analytics & Insight tool backed by 10,000 dev hours & 125+ engagements

Incorporates Well architected framework

Delivered by Hyperscaler Migration Factory

Strategic partnership with hyperscalers, partners

Powered by IBM Research, IBM Security & Acquisitions (Nordcloud, Taos, Neudesic, Turbonomic)

Hyper Automation - Declarative & Continuous Automation in collaboration with **IBM** Research

Enables Sustainable & secure Migration, Modernization experience for clients

Increase in efficiency during discovery leveraging automation & proven patterns

More cost-effective leveraging pre defined design patterns

Faster migrations with proven frameworks and 200+ pattern libraries in execution

