AZURESMART
Azure MySQL Migration

Motifworks Azure Migration services

ARE YOUR APPLICATIONS READY FOR TOMORROW?

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Today

- On premises MYSQL Databases
- This is built on VM or Physical servers
- Servers and infrastructure to manage by Infra team
- Upfront capacity planning, fixed scale

Future

- Cloud platform of Azure MySQL database to ensure 24/7 availability
- MySQL database service built on Microsoft's scalable cloud infrastructure for application developers
- Built-in features maximize performance, availability, and security
- Fly without downtime to efficiently deliver existing and new applications with reduced operational overhead

Understanding Features of Azure Mysql databases

- Built-in high availability with no additional cost.
- Predictable performance, using inclusive pay-as-you-go pricing.
- Scale as needed within seconds.
- Secured to protect sensitive data at-rest and in-motion.
- Automatic backups and point-in-time-restore for up to 35 days.
- Enterprise-grade security and compliance.


How to perform migration without downtime and how to ensure smooth migration without any issues
It looks like I need to start from scratch or rebuild for the cloud?
How do I get started, What are different options for migrations

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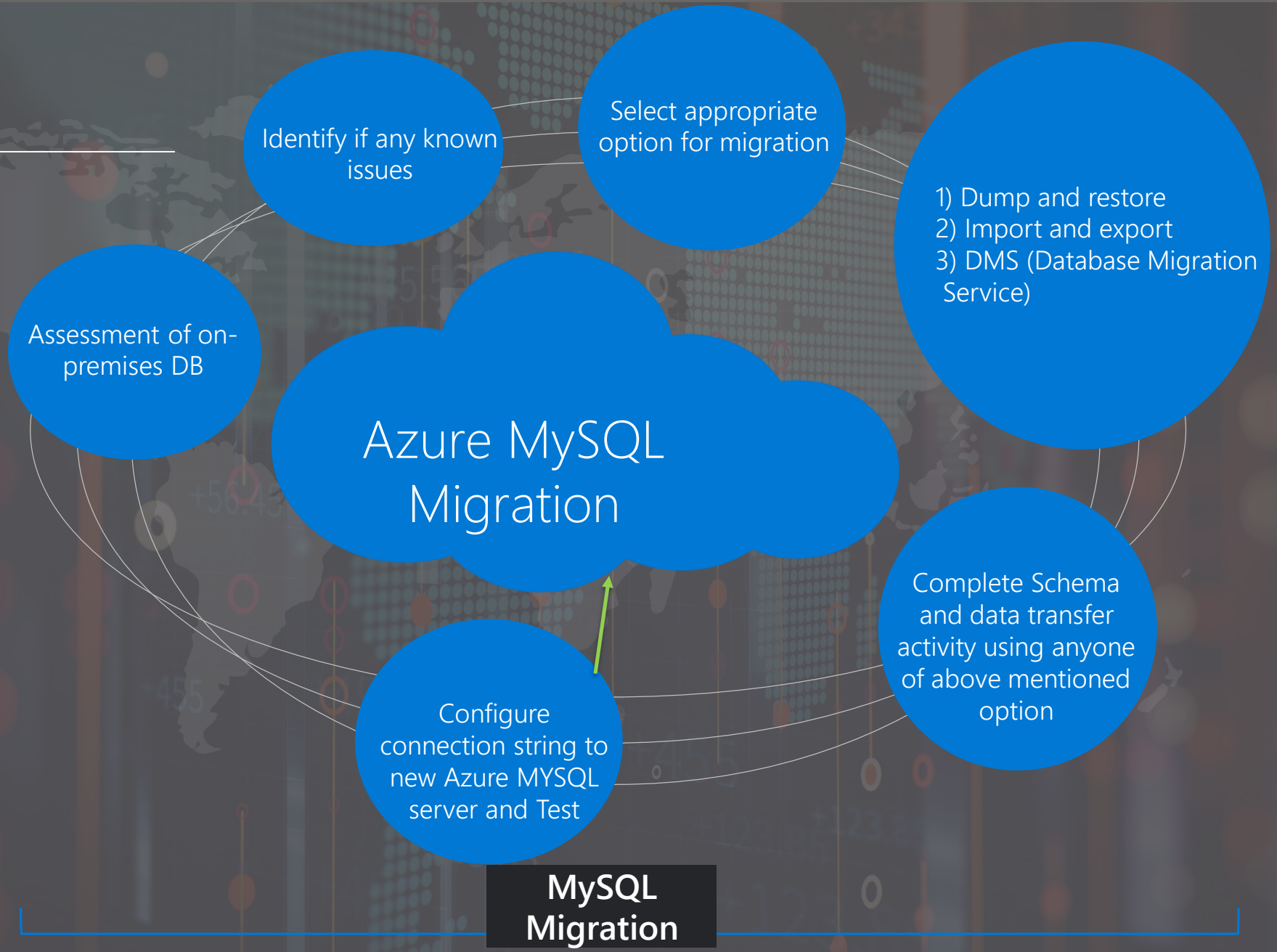
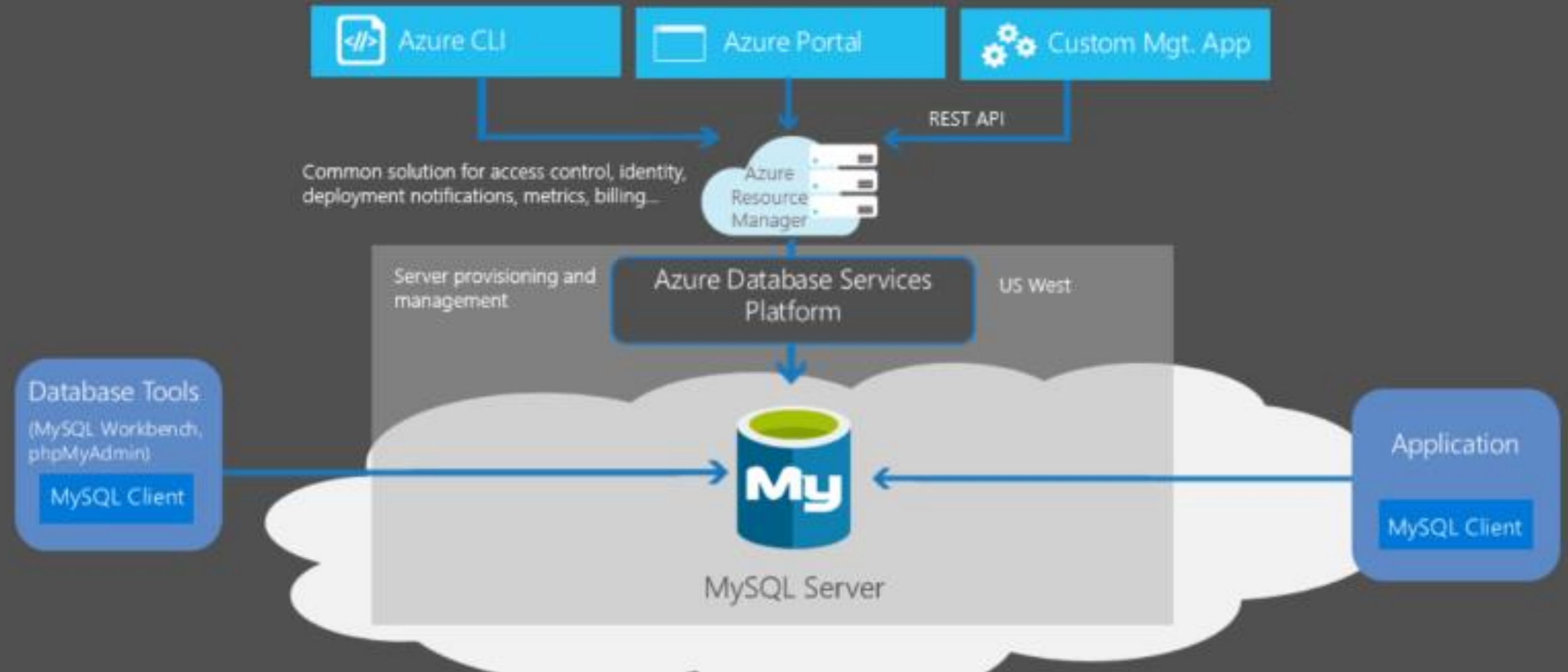
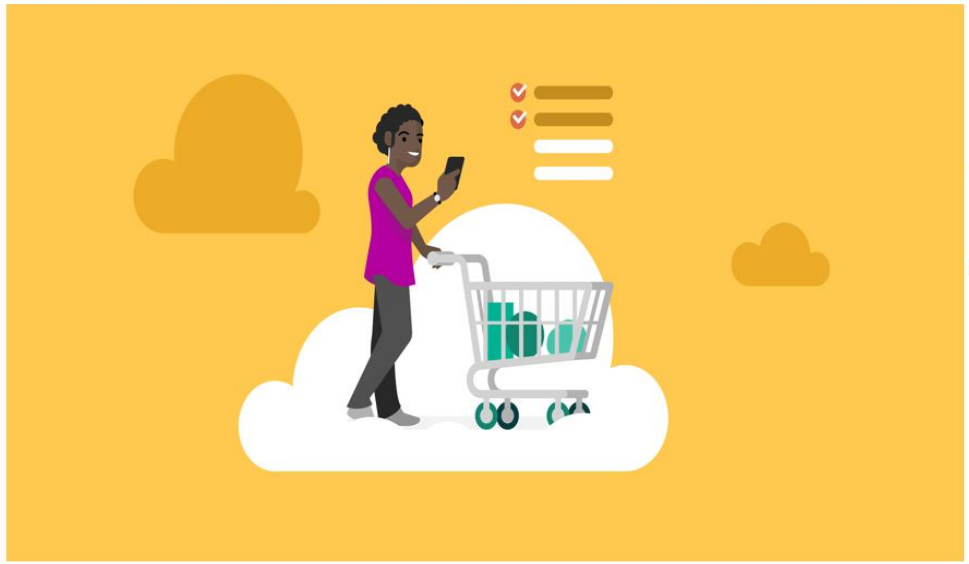
Migration options



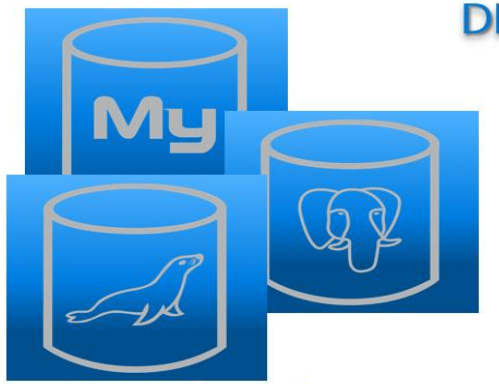
Create, Connect and Manage



On-premise MySQL to Azure MySQL Migration using DMS



DMS continuous sync



DMS continuous sync

Update connection string

DMS Continuous Sync

1. Migrate initial load
2. New transactions continue to sync to target until data catches up
3. Stop new traffic coming in
4. Wait for the data to catch up
5. Complete DB migration

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Migrate on-premises MySQL database to Azure MySQL database.

By using Azure DMS, ADF features

Migrate on-premises MySQL database to Azure MySQL database.

There are smooth ways to migrate MySQL databases from GB to TB to Azure MySQL databases using different tools available from Microsoft. We have all expertise that helps to complete pre-migration and post-migration activity smoothly.

QUESTIONS WE ANSWER

Can we migrate MySQL databases **using DMS** ?

What **changes are required** to migrate my on-premises MySQL databases to Azure MySQL?

Do I need **to arrange downtime or online migration ?**

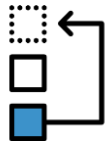
What will be my **costs in Azure MySQL database ?**

How do I **get started?**

WHAT YOU GAIN

Analysis of on premises database and database objects

Select correct option for Azure MySQL migration



Proceed with Migration, change connections in applications

Azure Cost Projections and savings analysis

Migration step by step process

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MIGRATION

PLANNING

MIGRATION PLANNING

- Finalize Migration Scope
- Define Teams and Roles
- Create Timeline and Budget
- Assessment of on- premise server and databases

ARCHITECTURE

AZURE ARCHITECTURE WORKSHOPS

Deep dive workshops:

- Azure Architecture
- Hybrid-Cloud and AAD
- Security Requirements and Architecture
- Migration Approaches
- High-Availability, Backup and DR requirements

ARCHITECTURE DESIGN

- Finalize Network and Security Architecture
- Create High-Availability and DR Architecture
- Define Azure Subscriptions, Resource Groups, Naming Conventions etc.

MIGRATION

MIGRATION AND AZURE SERVICES

- Azure Dev-Test Labs
- Create Azure MySQL server
- Create Azure MySQL databases
- Start with Migration activity
- After completion test all data
- Change connection string in applications configuration

WORKLOAD MIGRATION

- Pre-Migration Checklist
- Lift and Shift Migration
- Remediation and Migration
- Data Migration
- Post-Migration Testing and Validation

MANAGEMENT

MONITORING AND MANAGEMENT

Setup best practices monitoring for resources and cost monitoring.

- MySQL database utilization alerts
- Site Recovery and Backup
- Cost Management
- Setup of proper database monitoring alerts

AZURE MANAGEMENT AND GOVERNANCE

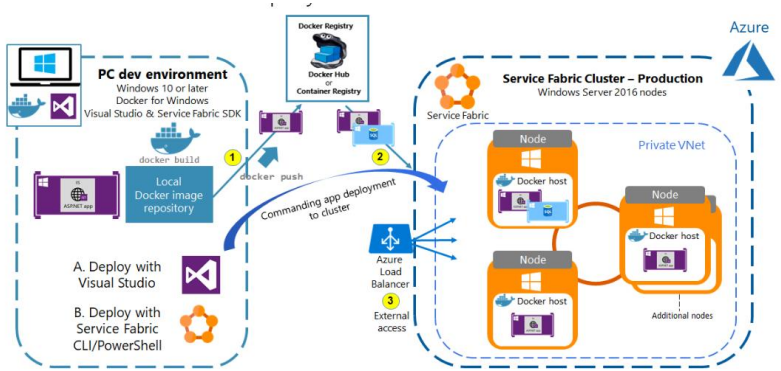
- Implement Monitoring, Security and Management Controls
- Implement DR and Backup wherever required.

3 YEAR COST SAVINGS
TOTAL COST OF OWNERSHIP

28.01%

Server Type	Azure Pricing	Windows Pricing
All	PAYG	Azure

Azure VM Costs	702.07K
Azure Storage	132.68K
Azure Backup	40.24K
Azure Networking	3.36K
TOTAL COST OF OWNERSHIP 3YR	**874.99K**



AZURE PAAS ASF ANALYSIS

PRICING TYPE: ASF | PaaS
WIN/SQL LICENSE: AHUB | Azure
CONTRACT TYPE: PAYG | 3YR RES | 1YR RES

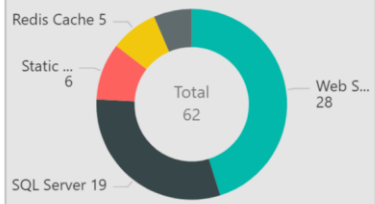
IN SCOPE: Yes | No

Linux Windows

9	53

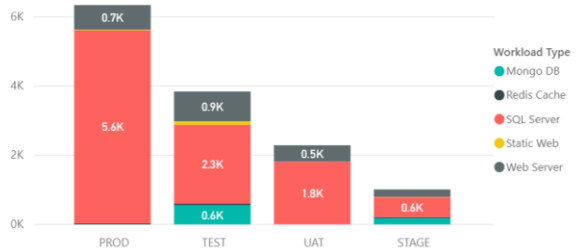
SERVER COUNT
62

WORKLOAD TYPE



Workload	Total Cost
SQL Server	10253
Web Server	2258
Mongo DB	734
Static Web	124
Redis Cache	111
Total	**13480**

Environment	Total Cost
PROD	6341
TEST	3842
UAT	2287
STAGE	1010
Total	**13480**



AZURE SERVICE BY SERVERS

Server	Azure Service	Type	Tier	Type 2	Tier 2
QAARCHSQL01	SQL Database	Single DB DTU	S4	Gen Purpose ...	3/21
STAGINGSQLEU01	SQL Database	Single DB DTU	S3	Gen Purpose ...	4/28
QAJUPITERSQL01	SQL Database	Single DB DTU	S4	Gen Purpose ...	4/28
QAMARSSQL01	SQL Database	Single DB DTU	S4	Gen Purpose ...	4/28
QANEPTUNESQL...	SQL Database	Single DB DTU	S4	Gen Purpose ...	4/28
STAGINGSQLUS01	SQL Database	Single DB DTU	S4	Gen Purpose ...	4/28
QAPERFSQL03	SQL Database	Single DB DTU	S6	Gen Purpose ...	4/28
QAPLUTOSQL01	SQL Database	Single DB DTU	S6	Gen Purpose ...	4/28
QASATURNSQL01	SQL Database	Single DB DTU	S6	Gen Purpose ...	4/28
QAVENUSSQL01	SQL Database	Single DB DTU	S6	Gen Purpose ...	4/28

Solution Assessment Output Report Prepared By:
motifworks
February 27, 2019

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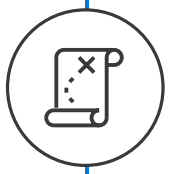
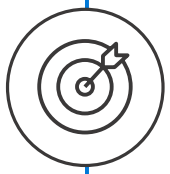
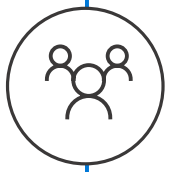
Let's Modernize Your Legacy Application For Cloud Using Azure Service Fabric And Containers



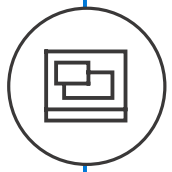
Review your **Application portfolio** inventory and identify application for pilot



Complete an **App Modernization Assessment**



Partner with Motifworks for Service Fabric Pilot



Create your **roadmap to modern apps**