

WE HELP YOU MIGRATE TO  
**AZURE SQL**  
**AND LAUNCH YOUR**  
DATABASE PERFORMANCE **TO A NEW LEVEL**

**MIGRATION SERVICES  
BY PERFORMANCE**

**EXTEND WINDOWS 2008 R2  
SUPPORT UNTIL JANUARY 2023**



**SQL Server on Virtual Machines**

“Lift and shift” your existing MS SQL and Microsoft Windows\* workloads to Azure, and get the performance, security, and more, with 100% code compatibility, with the simplest migration path possible.

*\* Includes migration paths from (EOL) on-premise Windows Server 2008 and relevant MS SQL versions*



**Migrate to Azure SQL Managed Instance or Azure Database PaaS options**

Get started on your replatforming journey with the ease of “lift and shift”, all while allowing your DBAs to better focus on automation, visibility, and tuning for performance and governance.

Open yourself up to opportunities offered by Cloud features and by modern engineering practices, such as IT automation, DevOps pipelines and tools, elastic resource scaling, and hyperscale deployments.

**No matter the path** –from simple to intricate– **Performance Technologies** is here to help you make the transition safely, within specifications, and along the budgetary lines you set.



# FIRST THINGS FIRST

Migrating your on-premises SQL database to Azure SQL can offer exciting opportunities for modernizing your existing applications and services, and for creating new ones. However it requires considerable forethought, time, work and resources, so it is important to clearly spell out the objectives we are trying to achieve, and to understand the choices and benefits available to us.



This is the “phase” where we explore these options and navigate through potential scenarios together,

## NAVIGATE & EXPLORE OPTIONS




### SERVICE / DEPLOYMENT MODEL

IaaS		① SQL Server on Azure Virtual Machines
PaaS		② Azure SQL Managed Instance ③ Azure SQL Database

### SERVICE TIER PURCHASING OPTIONS\*

DTU		① “Fixed” amount of resources (CPUs · I/O · RAM · Storage)
vCore		② A more “flexible” option to choose compute and storage resources

### CLOUD OPPORTUNITIES — TYPICAL EXAMPLES

IT Ops		Azure bundles powerful and easy to use IT automation functionality
Elastic		Azure SQL can automatically scale up and down for workloads that need it
DevOps		Migrating to Azure SQL offers many opportunities to adopt DevOps & CI/CD



**CLOUD  
SERVICES**



# EVALUATE



## DISCOVER, CATALOG AND PRIORITIZE WORKLOADS

*key phrases: uncover, locate, map, catalog, rank, dependencies*

During this step we will locate and map all SQL Server instances, as well as the features being used, in your organization. This is also where we start discussing the workloads that depend each of the instances, as well as dependencies and priorities.



## DETECT LIMITATIONS AND CREATE MIGRATION PATHS

*key phrases: blockers, limitations, unknowns, paths, scenarios, choices*

Once we “map” and prioritize workloads, we will search for possible incompatibilities and limitations, and discuss alternative migration paths and scenarios, based on factors you set such as performance, TCO and operations, the need for specific features, migration speed per se, and more.



## VALIDATE VIA SCENARIO TESTING, AND FINE TUNING

*validate: testing, scenarios, POC / MVP, iterate, reduce risk*

For more complex situations we can also run more intricate testing scenarios and even opt for a POC or MVP from which we can derive better feedback with which to fine-tune our full-scale migration plan.



# MIGRATE



## PRE-MIGRATION PLAN AND PREPARATION

*key phrases: choose and adapt methodology to spec, carry out pre-migration preparation*

Assuming we have found and prepared for possible issues in the previous steps we are now ready to choose a migration methodology and the accompanying toolset. At this point it is also important to discuss and get sign-off from application teams and the other major stakeholders before proceeding.



## RUNNING & MONITORING THE ACTUAL MIGRATION

*key phrases: exact process steps, quick reaction times, monitoring, communication*

We treat every migration with the utmost care and we set up a process where:

- Project objectives are well defined
- The exact steps are known and planned for
- Monitoring and feedback are constant
- Swift remediation is thought of and prepared
- Stakeholders communicate clearly



## POST-MIGRATION TESTING, TUNING, AND IMPROVING

*key: functionality, performance, security, availability, privacy, and other governance*

Once the migration has finished, we begin a series of validation and performance tests, at the workload level, to be certain that our apps are running within spec. Cooperation with application teams is crucial in this phase, in order to catch and remediate potential issues early. Post-migration is also a **good time to implement and fine-tune extra security**, and other compliance –related features.



# OPERATE



## SHIFT TO HIGHER EFFICIENCY & NEW OPPORTUNITIES

*key phrases: exact process steps, quick reaction times, monitoring, communication*

With Azure SQL, and related services, you can take your databases and applications to a new level of **operational efficiency** (i.e. automation), significantly improve **IT continuity**, and **manage costs** to an unprecedented degree.

Perhaps more importantly, you can experiment with, and adopt, modern engineering practices such as DevOps, “serverless”, Infrastructure as Code, and more.

After all, being able to do what you are already doing—but better—while also opening up new frontiers and opportunities thanks to Cloud technologies, is what Azure is all about.



## DEPLOY & CUTOFF

SHIFT!  
TO A NEW LEVEL  
WITH AZURE SQL  
& PERFORMANCE  
TECHNOLOGIES





**CLOUD COMPUTING  
FOR TRANSFORMATION**

# AZURE SQL

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210 99 47 100



info@performance.gr



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