

# DB Migration to Azure

Migrate your SQL Database to Azure



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# DB Migration to Azure

Azure offers a choice of fully managed relational, NoSQL, and in-memory databases, spanning proprietary and open-source engines, to fit the needs of modern app developers. Infrastructure management—including scalability, availability, and security—is automated, saving you time and money. Focus on building applications while Azure managed databases make your job simpler by surfacing performance insights through embedded intelligence, scaling without limits, and managing security threats.

If you want to	Use this
Build modern cloud applications with an always up-to-date relational database service that includes serverless compute, hyperscale storage, and AI-powered and automated features to optimize performance and durability	<a href="#">Azure SQL Database</a>
Migrate your SQL workloads to Azure while maintaining complete SQL Server compatibility, with all the benefits of a fully managed and evergreen platform as a service	<a href="#">Azure SQL Managed Instance</a>
Migrate your SQL workloads to Azure while maintaining complete SQL Server compatibility and operating system-level access	<a href="#">Virtual Machines<sup>9</sup>   SQL Server</a>
Build scalable, secure, and fully managed enterprise-ready apps on open-source PostgreSQL, scale out single-node PostgreSQL with high performance, or migrate PostgreSQL and Oracle workloads to the cloud	<a href="#">Azure Database for PostgreSQL</a>
Deliver high availability and elastic scaling to open-source mobile and web apps with a managed community MySQL database service, or migrate MySQL workloads to the cloud	<a href="#">Azure Database for MySQL</a>
Deliver high availability and elastic scaling to open-source mobile and web apps with a managed community MariaDB database service	<a href="#">Azure Database for MariaDB</a>
Build applications with guaranteed low latency and high availability anywhere, at any scale, or migrate Cassandra, MongoDB, and other NoSQL workloads to the cloud	<a href="#">Azure Cosmos DB</a>
Power fast, scalable applications with an open-source-compatible in-memory data store	<a href="#">Azure Cache for Redis</a>

# DB Migration Process Overview

Cloocus DBA team analyzes the customer's business requirements and purpose, and designs the database optimized for the customer environment by considering the strengths and weakness of IaaS and PaaS. We design and provide all areas according to the database to suit the customer's environment from database operating environment selection to installation, operation, optimization.



# Cloocus Offer – Migration Assessment

The Cloocus ATS (Account Technical Support) team thoroughly analyzes the customer`s environment and system prior to cloud migration to support your company`s safe and efficient cloud transition.

Pre-diagnostic service	Assessment Roadmap		
 <p><b>Quick TCO (1weeks)</b> Estimated TCO through IT Infra information</p>		<p><b>Pre-Meeting</b></p> <ul style="list-style-type: none"> <li>• Discussion of progress schedule and scope of work</li> </ul>	 <p><b>Analysis and checkup</b></p> <ul style="list-style-type: none"> <li>• Performing a diagnosis using a tool</li> <li>• Professional Customer Customized detailed diagnosis</li> </ul>
 <p><b>In-depth (3weeks)</b> Estimated Lift&amp;Shift TCO through IT Infra check-up</p>		<p><b>Preparation of Assessment environment</b></p> <ul style="list-style-type: none"> <li>• Inventory investigation</li> <li>• Azure Migrate Configuration</li> <li>• Data Collection Server Configuration</li> <li>• Tool (CloudRecon, Cloud Pilot) Environment configuration</li> </ul>	 <p><b>Result Report</b></p> <ul style="list-style-type: none"> <li>• Request Unify Cloud Report</li> <li>• Diagnostic result</li> <li>• Implementation plan</li> </ul>
 <p><b>App / DB Analysis (2weeks)</b> Present modernization plan through App/DB check-up</p>		<p><b>Data Collection</b></p> <ul style="list-style-type: none"> <li>• Data Collection using tools</li> </ul>	 <p><b>Report Sharing / Adoption Suggestions</b></p> <ul style="list-style-type: none"> <li>• Provide diagnostic results and implementation plan</li> <li>• App / DB Modernization proposal</li> </ul>

# Cloocus Offers – Quick TCO

By using the Azure Migrate tool, the data collection tool suitable for the customer's environment is used, and the collected data is automatically analyzed, and the result of TCO analysis and Consolidation, SQL Managed Instance, and AHUB(Azure Hybrid User Benefit) and applied. We present a cost saving plan.

**Define your workloads**

Enter the details of your on-premises workloads. This includes:

- Servers:** Workload 1, Environment: Windows/Linux Server, Physical Servers. Details: Core(s) per proc, RAM (GB).

Process:	1	2	3	4	5	6
	Visit Azure TCO on your favorite browser	Download the template from Azure TCO	Edit the template to add your workload (server, database, storage and network requirements)	Save and upload the file on Azure TCO	Workload in the file will be added to the workload section of Azure TCO, upon validation.	Proceed on Azure TCO to accept or update assumptions and get an estimate

**Instructions**

**How to add Servers**  
As you make selections, certain cells will be grayed out. The grayed out values are not needed for the workload you have selected. Template will not prevent input in these cells, but will not process values in it. If you are unsure of an input, leave it blank, system will apply a default value that can be changed later.

**How to add Databases**  
Choose the type of database you have on your premise and enter all relevant information. If a cell appears grayed out, it is not relevant for your workload. Next, select which Azure database would you prefer to migrate to. Certain Azure options will be grayed out.

How to use this template | Servers | Databases | Datawarehouse | Storage | Networking

**Adjust assumptions**

The following assumptions in the TCO model are industry averages accredited by Nucleus Research. To get a more accurate TCO report, update and customize these values to reflect your situation, which can vary by industry and location.

Currency: Korean Won (₩)

**Software Assurance coverage (provides Azure Hybrid Benefit)**  
Enable this if you have purchased this benefit for your on-premise licenses — get more value from your on-premise licenses — save up to 40%.

Windows Server Software Assurance coverage

SQL Server Software Assurance coverage

**Geo-redundant storage (GRS)**  
GRS replicates your data to a secondary region that is hundreds of miles away from your primary region.

Learn more about GRS >

**Total Cost of Ownership (TCO) Calculator**

Estimate the cost savings you can realize by migrating your workloads to Azure

Define your workloads | Adjust assumptions | View report

Over 5 year(s) with Microsoft Azure, your estimated cost savings could be as much as **₩44,935,063,477**

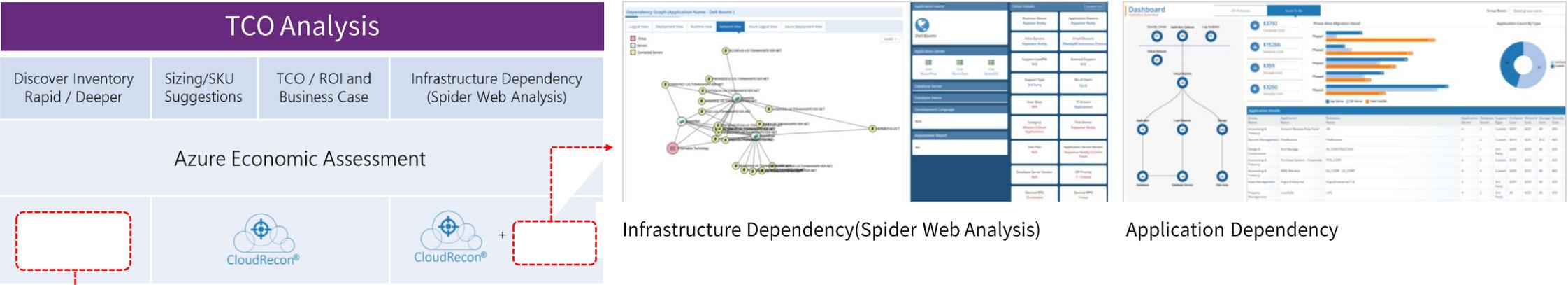
Total on-premises cost vs. Azure cost over time  
Savings from running workloads in Azure accrue over time. The following shows how those savings add up over years.



TCO Report

# Cloocus Offers – In-depth Analysis

Leverage Azure Migrate tools to automatically analyze data collection for your environment and provide additional cost savings with Consolidation, SQL Management Instances, and Azure Hybrid User Benefit (Ahub) applications.



Infrastructure Dependency(Spider Web Analysis)

Application Dependency

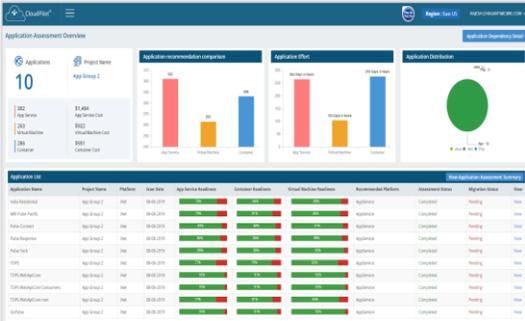
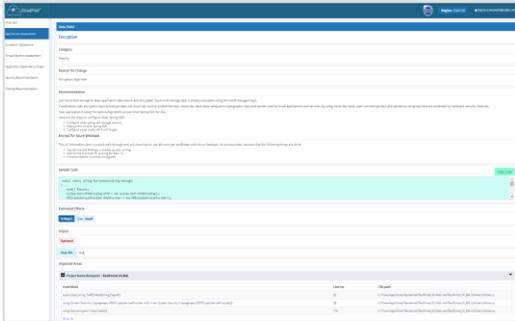
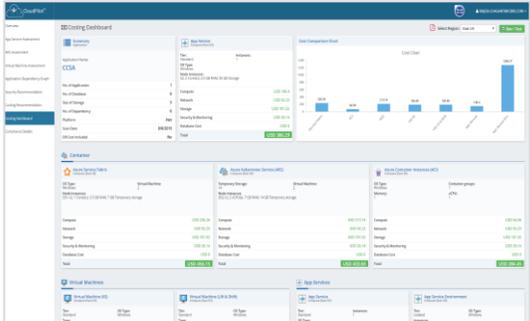
Different Scanning Tool	Detail Description about data getting from different tools										DataStat				
	Device_Info	Device_Perf	SQLServer_Info	SQLServer DB _Perf_Level_Info	AppDependency	InstalledSoftwares	Services	Netstat	Oracle DB	DB2	MySQL	Maria DB	Mongo DB		
MAP	✓	✓	✓		✓	✓	✓		✓						
Azure Migrate+OMS	✓	✓			✓			✓							
Movere	✓	✓	✓	✓		✓	✓	✓	✓						
Universal Inventory	✓	✓	✓		✓	✓	✓		✓						
RV Tool(v-center)	✓	✓				✓	✓								
Lansweeper	✓		✓			✓	✓		✓						
Snow	✓					✓	✓		✓						
SCCM	✓				✓	✓	✓		✓						
Sam Live	✓		✓			✓	✓		✓						
Solar wind	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		

# Cloocus Offers – App/DB Analysis

Based on data collected through Code/Config Files scans, the Azure MIGRATE diagnostic tool 'CloudPilot' provides additional preparations for customer application and SQL DB analysis for migration to Azure PaaS Readiness and application migration.

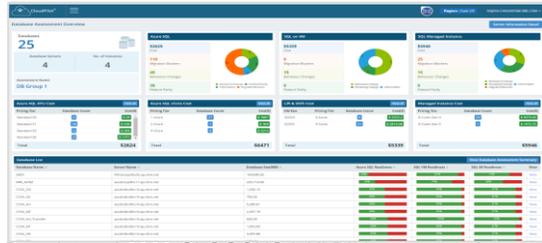
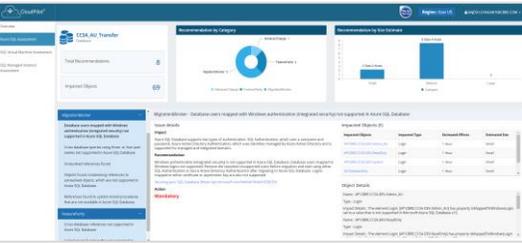
**Applications**

**Modernization Option: 1) VM, 2) Container, 3) App Service** 활용 방식에 대해 클라우드 적합도, 필요 코드 변경사항, 비용 분석

**Database**

**DB Modernization Option: 1) Oracle DB To AzurePostgre, 2) SQL DB to 3 Cases (Azure SQL, SQL VM, SQL Managed Instance), 3) MySQL to AzureMySQL** 활용 방식에 대해 클라우드 적합도, 필요 코드 변경사항, 비용 분석




클라우드 적합도  
코드변경사항  
비용

# Thank you!



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We are Azure Expert MSP

**Cloocus**

Gold  
Microsoft  
Partner  
Microsoft

Azure  
Expert  
MSP