DB Migration to Azure

## Migrate your SQL Database to Azure

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	Azure SQL Database
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	Azure SQL Managed Instance
Migrate your SQL workloads to Azure while maintaining complete SQL Server compatibility and operating system-level access	Virtual Machines의 SQL Server
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	Azure Database for PostgreSQL
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	Azure Database for MySQL
Deliver high availability and elastic scaling to open-source mobile and web apps with a managed community MariaDB database service	Azure Database for MariaDB
Build applications with guaranteed low latency and high availability anywhere, at any scale, or migrate Cassandra, MongoDB, and other NoSQL workloads to the cloud	Azure Cosmos DB
Power fast, scalable applications with an open-source-compatible in-memory data store	Azure Cache for Redis

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.

Cloud Consulting

· Discovery Workshop
· AS-IS Assessment
· Migration Plan

PoC

· Test Plan / Environment Build
· Test Exceution
· Architecture Optimization
· DB Migration Methodology

Migration Strategy

· Data Migration Plan
· Prioritize Application
· Propose the Best Solution

Cloud Migration

· workload Capture / Distribute
· Sync. Workload
· Buiild Monitoring System
· Stress Test *

Operation & Optimization

· Final Test
· Final Sync & Cutover
· Operation Team Handover
· Start Managed Service

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			
Quick TCO (1weeks) Estimated TCO through IT Infra information	**Pre-Meeting** • Discussion of progress schedule and scope of work		**Analysis and checkup** • Performing a diagnosis using a tool • Professional Customer Customized detailed diagnosis	
In-depth (3weeks) Estimated Lift&Shift TCO through IT Infra check-up	**Preparation of Assessment environment** • Inventory investigation • Azure Migrate Configuration • Data Collection Server Configuration • Tool (CloudRecon, Cloud Pilot) Environment configuration		**Result Report** • Request Unify Cloud Report • Diagnostic result • Implementation plan	
App / DB Analysis (2weeks) Present modernization plan through App/DB check-up	**Data Collection** • Data Collection using tools		**Report Sharing / Adoption Suggestions** • Provide diagnostic results and implementation plan • App / DB Modernization proposal	

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.

Quick TCO

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.
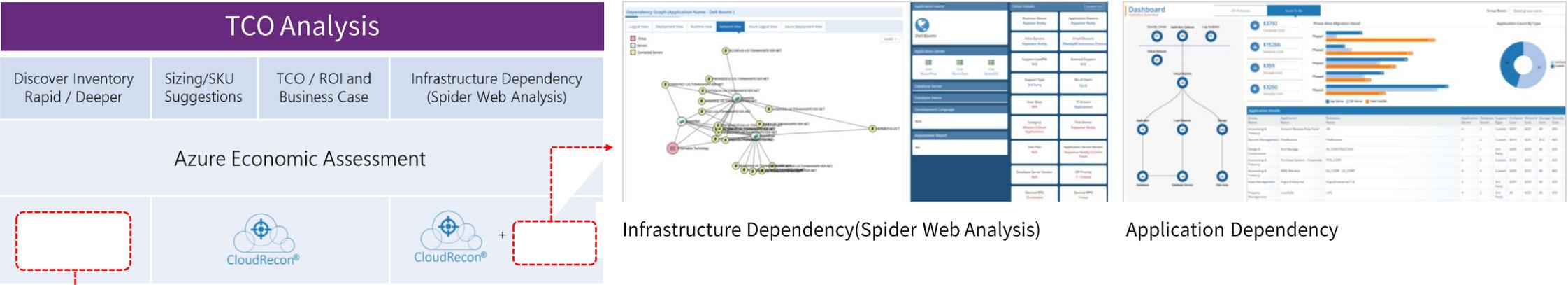
Infrastructure Dependency(Spider Web Analysis)

Application Dependency

Detail Description about data getting from different tools

Different Scanning Tool	Device_Info	Device_Perf	SQLServer_Info	SQLServer DB_Perf_Level_Info	AppDependency	InstalledSoftwares	Services	Netstat	DataStat				
									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
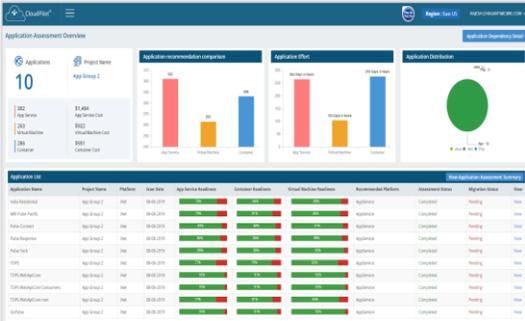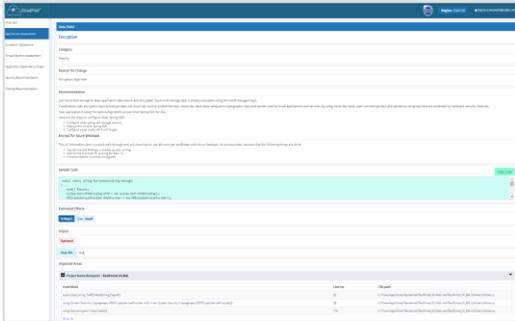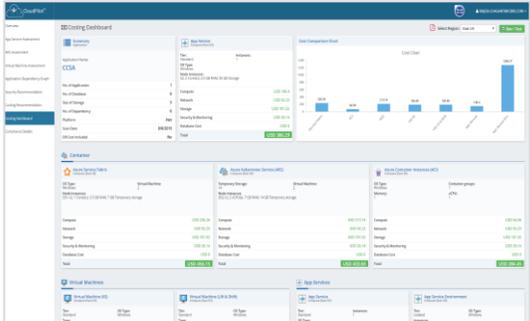
Database

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
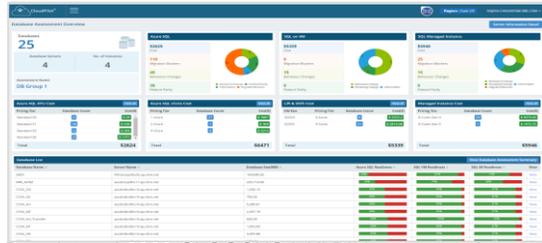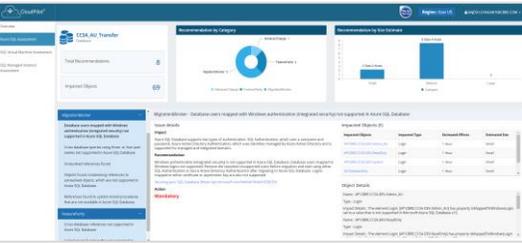
클라우드 적합도
코드변경사항
비용

Thank you!