

# Modernize .NET Apps with App Service, Azure SQL DB

Assessment Program



---

Cloud Navigator, Cloocus

Cloocus

Gold  
Microsoft  
Partner  
Microsoft

Azure  
Expert  
MSP

# Modernize .NET Apps with App Service, Azure SQL DB

Azure App Service and Azure SQL Database take care of the availability, scale, security and infrastructure management of your apps, allowing you to spend more time growing your business and empowering employees. It handles the availability, scale, security and infrastructure management of applications. Migrating your ASP.NET applications to Azure can save you 54% versus on-premises and up to 30% versus AWS.

## Azure App Service

Azure App Service is specifically designed to host and manage web applications, websites, APIs and other web services with high availability and SLA backed uptime 99.95%. It's a fully managed platform with built-in web app security controls for network, data, identity and logging, allowing you to scale with confidence.



Fully managed platform with built-in infrastructure Maintenance, security patching and scaling



Built-in CI/CD integration and zero-downtime deployments



Integration with virtual networks and ability to run In an isolated and dedicated [App Service Environment](#)



Rigorous security and compliance, including SOC and PCI, for seamless deployments across public cloud, Azure Government and on-premises environments

## Azure SQL Database

Azure SQL Database is always up to date, with AI-powered and automated features that optimize performance and durability for you. Serverless compute and Hyperscale storage options automatically scale resources on demand, so you can focus on building new applications without worrying about storage size or resource management.



[Fully-managed](#) SQL database automates updates, provisioning, and backups so you can focus on application development



Flexible and responsive [serverless](#) computing and [Hyperscale](#) storage rapidly adapt to your changing requirements



[Layers of protection](#), built-in controls and [intelligent threat detection](#) keep your data secure

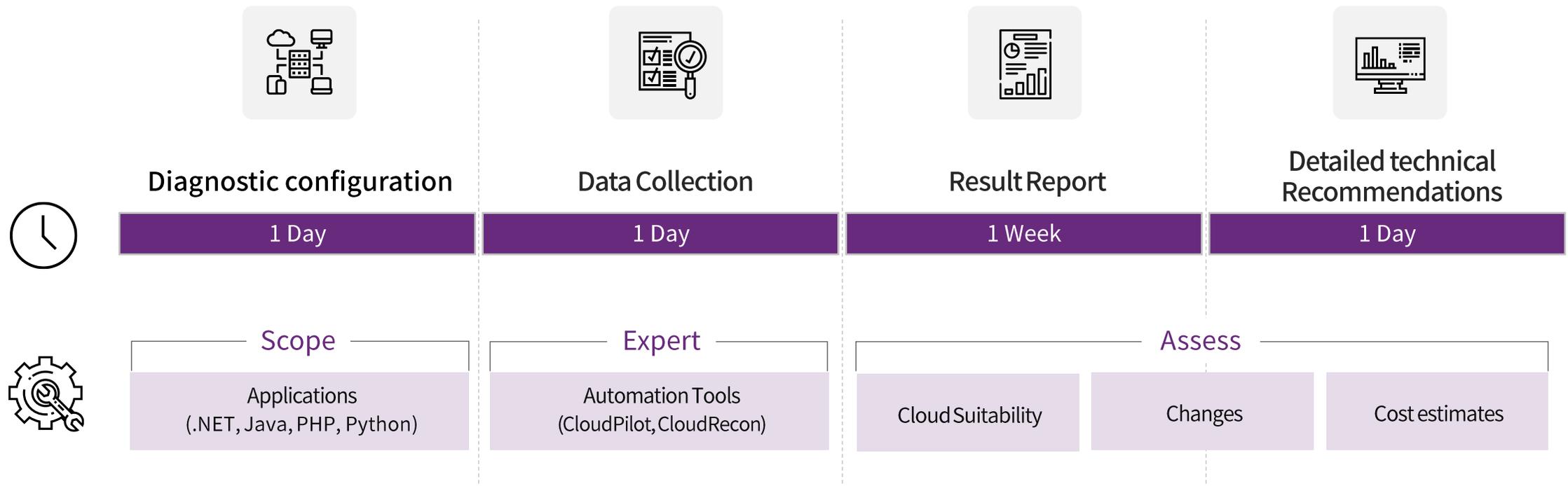


[Built-in AI](#) and [built-in high availability](#) maintain peak performance and durability with an SLA of [up to 99.995 %](#)

# Assessment Roadmap

The Azure Migration diagnosis is flexible according to the schedule of the customer but it takes a minimum of 2 weeks to a maximum of 3 weeks from the start of diagnosis until report sharing and recommendations.

## App Analysis



# Cloud Assessment in details

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 data-bbox="303 843 614 918">Application Analysis (2 weeks)</p> <p data-bbox="338 951 583 1019">App Modernization Recommendations</p>		<p data-bbox="963 536 1128 572"><b>Pre-Meeting</b></p> <ul data-bbox="963 582 1442 665" style="list-style-type: none"> <li>• Discussion of progress schedule and scope of work</li> </ul>		<p data-bbox="1811 522 2104 558"><b>Analysis and checkup</b></p> <ul data-bbox="1811 568 2277 694" style="list-style-type: none"> <li>• Performing a diagnosis using a tool</li> <li>• Professional Customer Customized detailed diagnosis</li> </ul>
		<p data-bbox="963 739 1498 775"><b>Preparation of Assessment environment</b></p> <ul data-bbox="963 785 1454 972" 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 data-bbox="1811 758 1995 793"><b>Result Report</b></p> <ul data-bbox="1811 803 2249 915" style="list-style-type: none"> <li>• Request Unify Cloud Report</li> <li>• Diagnostic result</li> <li>• Implementation plan</li> </ul>
		<p data-bbox="963 1093 1166 1129"><b>Data Collection</b></p> <ul data-bbox="963 1139 1322 1175" style="list-style-type: none"> <li>• Data Collection using tools</li> </ul>		<p data-bbox="1811 1043 2283 1079"><b>Final Report / Adoption Suggestions</b></p> <ul data-bbox="1811 1100 2257 1232" style="list-style-type: none"> <li>• Provide diagnostic results and implementation plan</li> <li>• App / DB Modernization proposal</li> </ul>

# 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) Cloud Suitability for how App Service is leveraged, Code changes, Cost Evaluation

The screenshot displays the CloudPilot interface with the following components:

- Application Assessment Overview:** Shows 10 applications, 302 App Service instances, 263 Virtual Machine instances, and 286 Containers. It includes bar charts for Application Recommendation Comparison (App Service: 302, VM: 263, Container: 286) and Application Effort (App Service: 264 Days 4 Hours, VM: 103 Days 0 Hours, Container: 271 Days 3 Hours).
- Application List Table:**

Application Name	Project Name	Platform	Scan Date	App Service Readiness	Container Readiness	Virtual Machine Readiness	Recommended Platform	Assessment Status	Migration Status	View
India Residential	App Group 2	.Net	08-08-2019	75%	81%	81%	AppService	Completed	Pending	View
MIR Pulse Pacific	App Group 2	.Net	08-08-2019	75%	81%	81%	AppService	Completed	Pending	View
Pulse Connect	App Group 2	.Net	08-08-2019	81%	81%	81%	AppService	Completed	Pending	View
Pulse Response	App Group 2	.Net	08-08-2019	81%	81%	81%	AppService	Completed	Pending	View
Pulse Tech	App Group 2	.Net	08-08-2019	81%	81%	81%	AppService	Completed	Pending	View
TOPS	App Group 2	.Net	08-08-2019	75%	81%	81%	AppService	Completed	Pending	View
TOPS WebAppCore	App Group 2	.Net	08-08-2019	81%	81%	81%	AppService	Completed	Pending	View
TOPS WebAppCore Consumers	App Group 2	.Net	08-08-2019	81%	81%	81%	AppService	Completed	Pending	View
TOPS WebAppCore root	App Group 2	.Net	08-08-2019	75%	81%	81%	AppService	Completed	Pending	View
GoPulse	App Group 2	.Net	08-08-2019	81%	81%	81%	AppService	Completed	Pending	View
- DD Costing Dashboard:** Provides a detailed cost breakdown for App Service, showing a total cost of USD 1056.78. It includes a cost comparison chart and a detailed cost breakdown table.
- Container Section:** Shows the cost breakdown for Azure Container Instances (ACI) and Azure Container Instances (ACI) for the application, with a total cost of USD 456.15.
- Virtual Machines Section:** Shows the cost breakdown for Virtual Machines (VM) and Virtual Machines (VM) for the application, with a total cost of USD 456.15.
- App Services Section:** Shows the cost breakdown for App Services and App Services Environment, with a total cost of USD 284.43.
- Application Dependency Detail:** Provides a detailed view of the application's dependencies, including a dependency graph and a list of dependencies.
- Security Recommendations:** Lists security recommendations for the application, such as enabling Azure Active Directory authentication and configuring Azure Key Vault.
- Code Changes:** Shows a list of code changes that need to be implemented for the application to be migrated to Azure PaaS.



CloudSuitability  
CodeChanges  
Cost

# Azure Migrate Sample Report – App/DB Analysis

## The Azure readiness of your applications vary.

CloudPilot® 솔루션을 사용하여 식별한 (27)개의 애플리케이션을 스캔 한 후 Azure에서 실행할 수 있는 애플리케이션의 준비 상태에 차이가 있음을 발견했습니다. (1)App(ClaimStatusService) 이외의 AppService를 사용한 현대화를 위한 나머지 (26) App 의 준비도는 단순한 “Lift & Shift” 접근 방식보다 크게 중요하지 않습니다.

Application	Container	App Service	VM
AMIRestfulService	86%	86%	88%
AMIService	79%	77%	81%
ClaimStatusPortalService	79%	77%	81%
ClaimStatusService	81%	0%	82%
ClientCompanyRules	81%	82%	82%
CMS-AppealCaseFile	82%	81%	84%
CMS-ESMD	70%	63%	72%
CMS-ProviderPortal	77%	70%	79%
CMS-Scraper	81%	79%	82%
DocEdit	74%	70%	75%
EncoderService	82%	84%	84%
FileMove	79%	79%	81%
HBA	79%	79%	81%

Application	Container	App Service	VM
MAT	72%	67%	74%
MDS	63%	60%	65%
MERE	53%	35%	54%
OCR	86%	88%	88%
OPALS	60%	42%	61%
PJ	79%	77%	81%
ProviderManagement	81%	75%	82%
QTS	72%	70%	74%
Recoup	67%	56%	68%
REDOX	75%	72%	77%
Result360	75%	74%	77%
ResultsList	81%	79%	82%
Review360	84%	84%	86%
SNF30	79%	74%	82%

## Application Remediation and Effort

(27) 애플리케이션에 대한 업데이트 권장 사항 및 예상 완료 시간이 여기에 요약되어 있습니다.

총 개선 시간은 다음과 같습니다.

AppService: 1,075 hours

Containers: 738 hours

VMs: 736 hours

가능하면 AppService 전략을 활용하는 것을 추천 드립니다.

Application Name	App Service		Container		Virtual Machine	
	Chg Count	Effort	Chg Count	Effort	Chg Count	Effort
AMIRestfulService	8	3 Days 1 Hour	8	5 Days 6 Hours	7	2 Days 2 Hours
AMIService	13	4 Days 6 Hours	12	6 Days 6 Hours	11	3 Days 2 Hours
ClaimStatusPortalService	13	7 Days	12	8 Days 4 Hours	11	3 Days 2 Hours
ClaimStatusService	0	0 Days	11	8 Days 2 Hours	10	3 Days
ClientCompanyRules	10	4 Days 2 Hours	11	6 Days 4 Hours	10	3 Days
CMS-AppealCaseFile	11	4 Days 2 Hours	10	6 Days 2 Hours	9	2 Days 6 Hours
CMS-ESMD	21	13 Days 1 Hour	17	13 Days	16	7 Days 6 Hours
CMS-ProviderPortal	17	6 Days 1 Hour	13	7 Days	12	3 Days 4 Hours
CMS-Scraper	12	7 Days 7 Hours	11	10 Days	10	3 Days
DocEdit	17	6 Days 7 Hours	15	8 Days 2 Hours	14	4 Days 6 Hours
EncoderService	9	4 Days	10	6 Days 2 Hours	9	2 Days 6 Hours
FileMove	12	4 Days 5 Hours	12	7 Days 2 Hours	11	3 Days 6 Hours
HBA	12	6 Days 3 Hours	12	8 Days 4 Hours	11	3 Days 2 Hours
MAT	19	12 Days 2 Hours	16	13 Days	15	4 Days 2 Hours
MDS	23	8 Days 7 Hours	21	9 Days 2 Hours	20	5 Days 6 Hours
MERE	37	20 Days 7 Hours	27	17 Days 6 Hours	26	10 Days 4 Hours
OCR	7	3 Days	8	5 Days 6 Hours	7	2 Days 2 Hours
OPALS	33	21 Days 7 hours	23	20 Days 4 Hours	22	17 Days
PJ	13	5 Days 2 Hours	12	6 Days 6 Hours	11	3 Days 2 Hours
ProviderManagement	14	5 Days 2 Hours	11	6 Days 4 Hours	10	3 Days
QTS	24	13 Days 5 Hours	23	14 Days 4 Hours	22	6 Days
Recoup	25	11 Days 1 Hour	19	10 Days 2 Hours	18	5 Days
REDOX	16	8 Days 7 Hours	14	10 Days 2 Hours	13	6 Days 6 Hours
Result360	15	5 Days 6 Hours	14	7 Days 2 Hours	13	3 Days 6 Hours
ResultsList	12	5 Days	11	6 Days 4 Hours	10	3 Days
Review360	9	3 Days 7 Hours	9	6 Days	8	2 Days 4 Hours
SNF30	20	10 Days 5 Hours	17	11 Days 4 Hours	15	7 Days 0 Hours

## Estimated Azure Application Cost

우리에게 제공된 인프라 데이터를 기반으로 각 애플리케이션 전략을 지원하는 기본 Azure 서비스 비용을 추정했습니다. 아래의 예상 비용은 특정 시점을 반영하며 서비스를 제대로 크기 조정해야 할 필요성을 나타내는 것으로 가정합니다.

Azure App Service Baseline Costs				
Compute	Network	Storage	Security	Total Cost
\$146.00	\$51.10	\$11.50	\$14.64	\$223.24

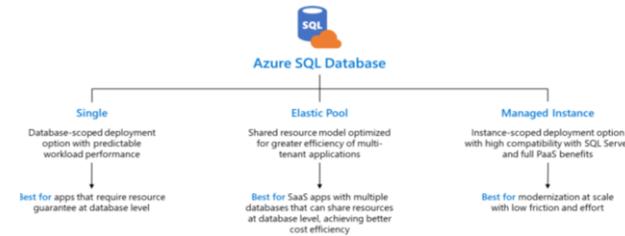
Strategy	Monthly Cost
(26) App Service + (1)VM	\$6,058.19
(27) Containers	\$2,697.84
(27) VMs	\$6,856.65

Azure Container Instance Baseline Costs				
Compute	Network	Storage	Security	Total Cost
\$73.78	\$0.00	\$11.50	\$14.64	\$99.92

Virtual Machine Baseline Costs				
Compute	Network	Storage	Security	Total Cost
\$183.96	\$43.85	\$11.50	\$14.64	\$253.95

## We have looked at your data estate migration opportunities as well

응용 프로그램 마이그레이션 전략 외에도 최상의 접근 방식을 권장하기 위해 (2) SQL Server 인스턴스에서 이러한 앱과 관련된 (63) 데이터베이스를 살펴 보았습니다. 가능한 경우 Azure PaaS Data estate 대안 (DTU, vCore), Azure SQL Database Elastic Pool, Azure SQL Database Managed Instance) 및 필요한 경우 Azure의 VM (IaaS)에서 실행되는 SQL을 찾습니다.



CloudPilot® 솔루션을 사용한 이 분석을 기반으로 Azure에서 실행할 데이터베이스 (63개)의 준비 상태 및 수정 노력(시간)이 아래에 요약되어 있습니다.

Service	% Ready	Remediation
Azure SQL	71.03	3,812 hours
SQL VM	92.78	690 hours
SQL MI	81.38	2,492 hours

# Azure Migrate Sample Report – App/DB Analysis

## Diagnosis Summary

**진단범위**  
본 보고서는 두 가지 주요 온-프레미스 IT 환경과 Azure로 마이그레이션 할 수 있는 가능성을 진단해

**진단결과 요약**  
Migration 로드맵 요약  
Azure Migration Tool을 사용하여 Windows Server 2008/R2를 평가하여 Azure로 마이그레이션할 수 있는지를 평가하고 결과에 따라 POC(Proof of Concept), 리프트 앤 쉬프트(Shift) 및 리프트 앤 쉬프트(Shift)를 위한 Azure 환경을 구성합니다.

**비교분석 요약**  
Azure Migration Tool을 사용하여 Windows Server 2008/R2를 평가하여 Azure로 마이그레이션할 수 있는지를 평가하고 결과에 따라 POC(Proof of Concept), 리프트 앤 쉬프트(Shift) 및 리프트 앤 쉬프트(Shift)를 위한 Azure 환경을 구성합니다.

**비용분석 요약**  
Azure Migration Tool을 사용하여 Windows Server 2008/R2를 평가하여 Azure로 마이그레이션할 수 있는지를 평가하고 결과에 따라 POC(Proof of Concept), 리프트 앤 쉬프트(Shift) 및 리프트 앤 쉬프트(Shift)를 위한 Azure 환경을 구성합니다.

**IT 환경 분석 | Windows 서버**  
총 6개의 Windows Server가 확인되었습니다. 총 6개의 데이터 서버를 20%가:

**IT 환경 분석 | ASP(Active Server Page)**  
ASP 웹 서버는 Lift and Shift(이동)를 통해 Azure로 마이그레이션할 수 있는 것으로 확인되었습니다.

**IT 환경 분석 | SQL 서버**  
SQL 서버는 Azure로 마이그레이션할 수 있는 것으로 확인되었습니다.

## Detailed Analysis Results

**IT 환경 분석 | Windows 서버**  
총 6개의 Windows Server가 확인되었습니다. 총 6개의 데이터 서버를 20%가:

**IT 환경 분석 | ASP(Active Server Page)**  
ASP 웹 서버는 Lift and Shift(이동)를 통해 Azure로 마이그레이션할 수 있는 것으로 확인되었습니다.

**IT 환경 분석 | SQL 서버**  
SQL 서버는 Azure로 마이그레이션할 수 있는 것으로 확인되었습니다.

**비용분석 상세**  
사실상의 대안(On-Premise)을 분석하고 이를 통해 Azure로 마이그레이션할 수 있는지를 평가합니다. 해당 데이터를 근거로 일부 항목에 대해 비용을 기반으로 TCO를 산출합니다.

## Modernization Roadmap

**Migration strategies – Rehost(i.e., lift & shift)**  
Rehost (lift and shift)  
Refactor  
Rearchitect  
Rebuild

**Migration strategies – Refactor**  
Rehost (lift and shift)  
Refactor  
Rearchitect  
Rebuild

**마이그레이션 계획**  
3주간의 POC 진행 후 To-Be Architecture 수립과 Migration까지 2개월 이내에 수행이 가능합니다.

**마이그레이션 전략**  
SQL 서버 마이그레이션 및 사용 가능

## To-Be Proposal

**Azure Landing Zone – Service baseline**  
Azure Landing Zone을 기반으로 서비스 베이스를 구축하여 CAI(Cloud Adoption Framework)의 Best Practices, 보안, 거버넌스, 인증, 네트워킹이 준비된 환경을 제공합니다.

**Performance Efficiency**  
시스템 성능 최적화 및 비용 및 운영 효율성  
클라우드 최적화를 통해 효율적인 자원 활용 - Scalability

**네트워킹 Service Architecture**  
Azure Application Centers를 위한 서비스의 다양한 대체제 기반의 안정적이고 유연한 구조를 제공합니다.

**DevOps**  
Azure DevOps를 사용하여 CI/CD 프로세스를 구축하여 하는 시나리오

**사용자 교육**  
Azure의 인프라/Apps/Infra와 데이터 및 인공지능(Data & AI) 두 분야에 대한 기초(Fundamentals)부터 역할 기반(Role-Based), 전문 과정(Specialty)까지 필요한 교육과정 제공

# Thank you!



---

We are Azure Expert MSP

Cloocus

Gold  
Microsoft  
Partner  
Microsoft

Azure  
Expert  
MSP