



Cloud Migration Services – Secure, Scalable, and Seamless with ClearVue Solutions

At ClearVue Solutions, we offer **custom cloud migration services** focused on **security, compliance, performance optimization, and seamless scalability**. Our **security-first approach** sets us apart, ensuring your operations meet stringent compliance standards while remaining cost-effective. With **parallel QA testing** integrated into our process, we **minimize risks, avoid disruptions, and ensure smooth transitions** for every migration.

Cloud Migration: Simplify. Accelerate. Innovate.

Modernization goes beyond just moving to the cloud—it's about transforming how you operate, deliver, and innovate. ClearVue's **cloud migration strategies** are tailored to fit your business:

Strategy	Description	Best Suited For
Rehosting ("Lift and Shift")	Moving existing applications to the cloud without modifications	Companies seeking quick cost savings with minimal disruption
Replatforming	Making slight optimizations to benefit from cloud capabilities (e.g., upgrading middleware)	Firms looking to boost performance without a full rebuild
Refactoring	Re-architecting applications to become cloud-native using microservices and serverless functions	Companies aiming for agility and long-term innovation
Hybrid Migration	Retaining sensitive workloads on-premises while moving the rest to the cloud	Organizations with compliance needs or legacy dependencies
Containerization	Migrating applications into containers for enhanced portability and scalability	Firms focusing on DevOps automation and multi-cloud strategies



Security and Compliance – Our Core Differentiator

In today’s landscape of increasing **cyber threats** and regulatory pressures, businesses need **robust BCDR strategies**. Cloud services provide **automated backups (BC)**, **redundant data storage**, and **disaster recovery (DR) capabilities** that ensure faster recovery.

Problem: Traditional **monolithic applications** suffer from significant risks, where failure in one part can bring down the entire system. Troubleshooting and debugging are time-consuming due to interdependencies.

Solution: ClearVue implements **decoupled, microservices-based architectures** that isolate failures and enhance fault tolerance. ClearVue ensures **enterprise-grade security** throughout every migration, prioritizing **compliance with global regulations** and maintaining **end-to-end data protection**.

Key Metrics to Measure:

- **Recovery Time Objective (RTO):** Time taken to restore normal operations after a disruption.
- **Recovery Point Objective (RPO):** Maximum acceptable data loss measured in time (e.g., seconds, minutes).

Key Security Features:



Zero Trust Architecture

Enforces strict identity verification with **multi-factor authentication (MFA)** and **device compliance policies**.



Encryption Everywhere

Data is encrypted **in transit and at rest** using **AES-256 encryption**, with **Azure Key Vault** for key management.



AI-Driven Threat Detection

Integrated tools like **Microsoft Defender for Cloud** detect threats early, preventing breaches before they escalate.



Role-Based Access Control (RBAC)

Implements **Azure AD, OAuth 2.0**, and granular role-based permissions to minimize access risks.



Compliance Management

Continuous monitoring ensures alignment with **GDPR, ISO 27001, SOC 2, PCI DSS**, and other frameworks, using **Azure Policy Manager**.

Deep Expertise in Cloud Providers and Service Models

ClearVue Solutions bring extensive experience with **leading cloud platforms** and services:



Microsoft Azure

Specialized in IaaS, PaaS, and SaaS service models. **Kubernetes (AKS, EKS)** for container orchestration.



Amazon Web Services

Expertise in **Azure Functions** and **AWS Lambda** for serverless computing.



Google Cloud

Knowledge of Google Cloud Platform services. Cloud-native storage and security services for scalability.

Architecture Design and Modernization

We design **scalable, reliable, and cloud-native architectures** that support business agility.



Cloud-Native Architecture

Microservices, **event-driven models**, and serverless patterns.



Hybrid and Multi-Cloud Deployments

Flexibility with hybrid systems and multi-cloud models to avoid vendor lock-in.



Application Modernization

Expertise in **re-hosting, re-platforming, and refactoring** legacy systems to enhance agility.



Automation and Workflows: Business Process Orchestration

ClearVue enables businesses to **automate and integrate processes seamlessly** with Azure's automation tools.

▼ Azure Logic Apps

Automates workflows and integrates applications, data, and services. Ideal for enterprise solutions and B2B communications.

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▼ Microsoft Power Automate

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- **Low-code/no-code automation** for business users to streamline workflows.
- Use cases: **Data synchronization, social media monitoring, and business process automation**

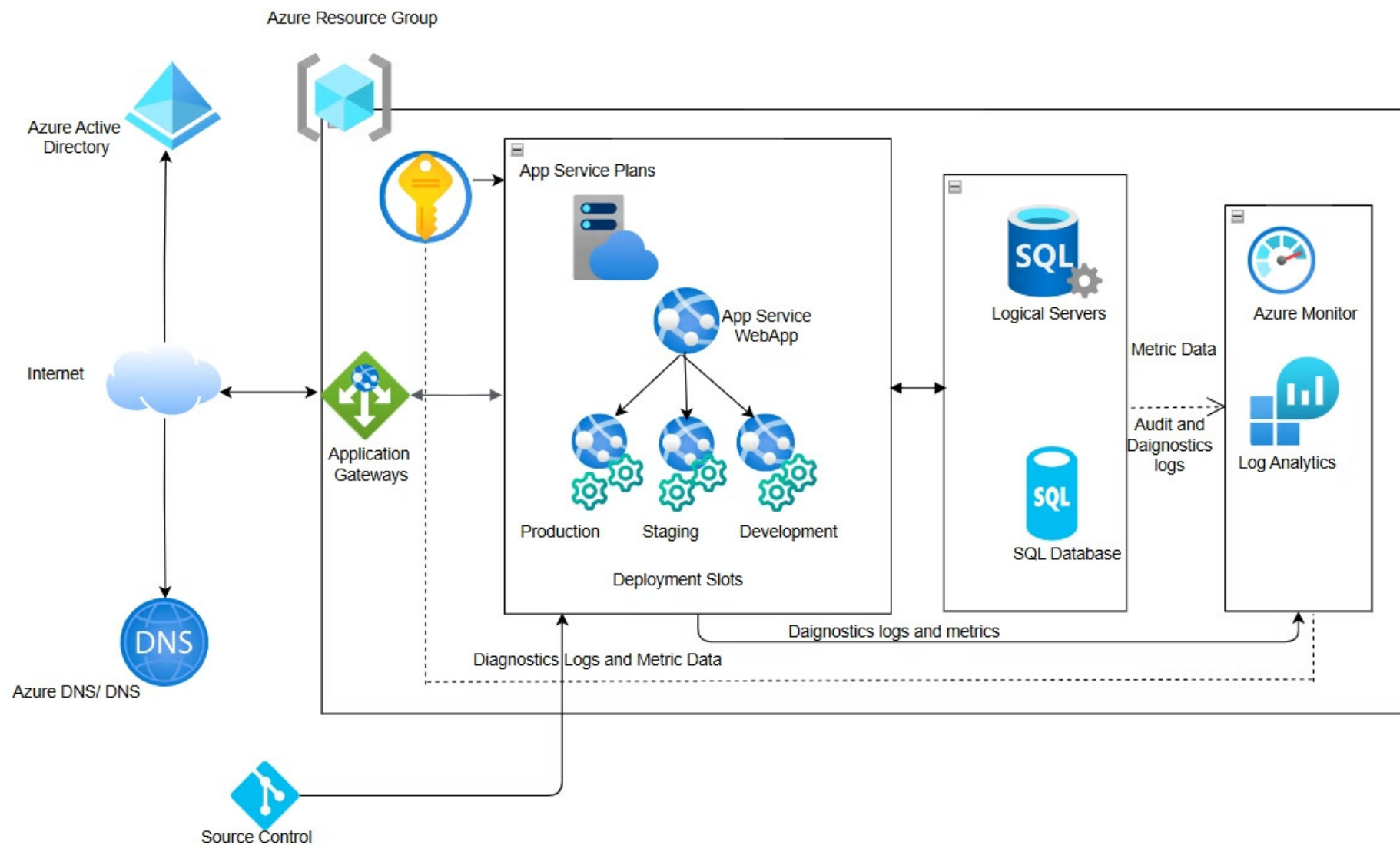
▼ Power Automate Desktop

Brings RPA capabilities to automate desktop applications and legacy systems. Used for screen scraping and data extraction.

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- Use cases: **Screen scraping, data extraction, and automating manual tasks.**

Solution Architecture

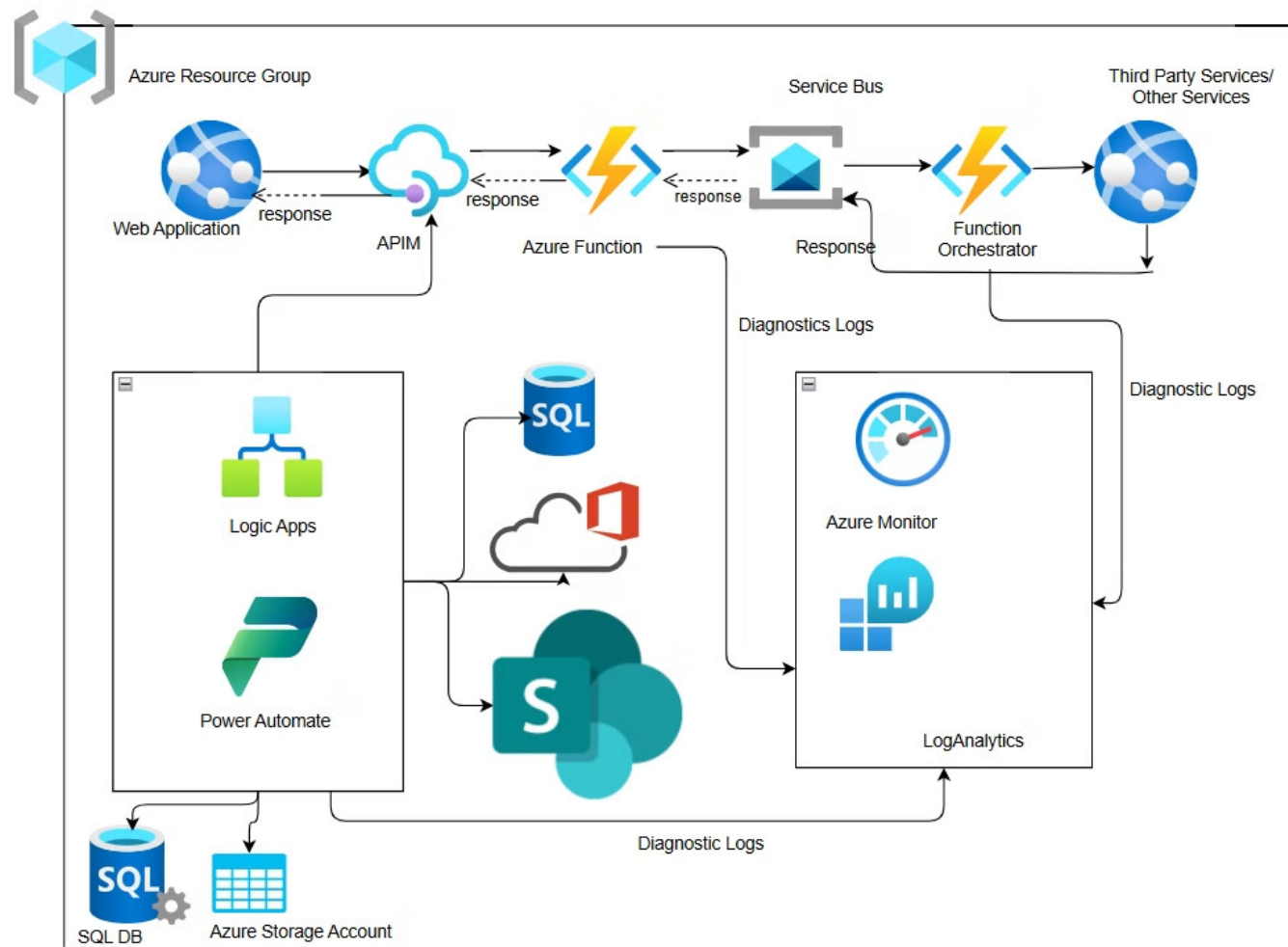
Web Application Architecture



- **Resource Group:** Logical container for Azure resources.
- **App Service App:** Fully managed platform for deploying and hosting cloud applications.
- **App Service Plan:** Manages the virtual machines (VMs) hosting the applications; all apps within the same plan share the same VM instances.
- **Deployment Slots:** Allows staging deployments before swapping them with production, ensuring smooth rollouts.
- **Azure DNS:** Maps public IPs to domain names. Supports custom domain names by configuring DNS records to link them with app services.
- **Azure SQL Database:** Cloud-based relational database service.
- **Logical Server:** Hosts multiple databases within Azure SQL.
- **Azure Storage:** Stores diagnostic logs via blob containers.
- **Azure Application Gateway:** Acts as a firewall, protecting applications from malicious attacks while routing traffic.
- **Azure Active Directory (AD):** Manages user authentication; integrates with third-party identity providers.
- **Service Configurations:** Centralizes configuration of API Management settings, database consistency levels, and other Azure resources.
- **CI/CD Pipeline:** Automates deployments using Azure DevOps or GitHub pipelines to streamline updates and releases.

Integration Architecture

The integration architecture leverages Azure's serverless capabilities to build automated workflows and facilitate communication across cloud and on-premises systems.



- **Web Application:** Exposes APIs securely through Azure API Management.
- **API Gateway:** Controls and monitors API access for external stakeholders.
- **Messaging Layer:** Azure Service Bus ensures reliable, decoupled communication between different services.
- **Business Logic:** Azure Functions provide serverless compute for executing workflows and business logic on demand.
- **Data Storage:** Azure SQL Database and Storage Accounts cater to all data storage needs.
- **Integration Workflows:** Azure Logic Apps automate and manage business processes like document extraction from emails, approval notifications, and cross-system data integration. They also enable on-premises workflows via an on-premises gateway (e.g., triggering SQL stored procedures based on cloud events).
- **Security:** Azure AD provides user authentication, while Azure Key Vault ensures secure management of secrets and keys.
- **Service Configurations:** Offers comprehensive configurations for APIs, databases, and all Azure resources involved.
- **CI/CD Pipeline:** Enables smooth deployments using Azure DevOps or GitHub, ensuring continuous delivery with defined stages.
- **Monitoring & Analytics:** Uses Azure Monitor and Application Insights to track performance, logs, and alerts.



Parallel Quality Assurance (QA) Testing for Seamless Deployment

At ClearVue Solutions, we incorporate **parallel QA testing** throughout the migration lifecycle, ensuring smooth transitions and eliminating risks. Our QA strategy ensures that all systems are thoroughly tested to **avoid disruptions** during go-live.

1 SQL Database Testing

Validates data integrity and structure within databases.

2 Automation Testing

Selenium automates repetitive tasks and streamlines testing efforts.

3 API Testing

REST API automation and manual testing with Postman.

4 Framework – BDD (Behavior-Driven Development)

Cucumber, SpecFlow, ReqnRoll – Ensure close alignment between development and business requirements.

5 API Testing

Automation: REST API automation for precise validation of endpoints.

Manual: **Postman** for exploratory and ad-hoc API testing.

Programming Language: **C#** for building robust automation frameworks.

ClearVue's Cutting-Edge Technology Stack

We leverage a **robust cloud technology stack** to enable faster, secure, and optimized migrations.



Cloud Platforms

Microsoft Azure, AWS,
Google Cloud Platform

Containerization & Orchestration

Docker, Kubernetes



Serverless Computing

Azure Functions, AWS
Lambda



Middleware & Caching

Azure Service Bus, Kafka,
Redis Cache



Data Integration & APIs

Azure Data Factory, API
Gateway, Rest API, WCF



Monitoring & Observability

Azure Monitor, Grafana,
Power BI



DevOps & Automation

Jenkins, Terraform, Ansible,
Azure DevOps



Security Tools

Defender, OAuth 2.0, Key
Vault, JWT, Microsoft



CI/CD Pipelines

TFS, GitHub Actions,
Jenkins, Azure Pipelines

Our Cloud Migration Process – Built for Precision and Efficiency

1. Assessment & Strategy Development

- Use automated tools to assess dependencies and risks.
- Develop a tailored migration plan with timelines and compliance checkpoints.

2. Architecture & Planning

- Design scalable cloud architectures with built-in security.
- Integrate microservices, APIs, and automation pipelines.

5. Post-Migration Monitoring & Support

- 24/7 monitoring through Azure Monitor and real-time dashboards.
- Provide continuous security updates and compliance auditing.

3. Migration Execution

- Conduct migrations with minimal downtime using Azure Migrate and automated scripts.
- Deploy QA-tested workloads with integrated compliance monitoring.

4. Optimization & Validation

- Rightsize resources and fine-tune performance for efficiency.
- Validate with penetration testing, automated QA, and user acceptance testing (UAT).



CAPEX and OPEX Optimization for Cost-Efficiency

At ClearVue, we recognize that financial efficiency is just as important as technical performance. Our cloud solutions are designed to **reduce both CAPEX (capital expenditure) and OPEX (operational expenditure)** for sustained business growth.

CAPEX Reduction	By migrating from legacy on-premises systems to the cloud, we eliminate the need for expensive hardware and infrastructure investments .
OPEX Savings	Through automation, dynamic workload management, and resource optimization , we significantly reduce operational costs, helping clients achieve 30-40% savings .
Pay-As-You-Go	Adopt usage-based pricing models to reduce overhead and achieve optimal ROI
Rightsizing Workloads	Use predictive analytics to scale resources dynamically , ensuring that you only pay for what you need
Proactive Monitoring for Cost Control	Use Azure Cost Management tools to track spending in real time and prevent overuse or unexpected charges .



Case Study: Optimized and Secure Migration with ClearVue Solutions

Client: A global travel services provider with a legacy infrastructure that struggled with compliance requirements.

Challenge: High infrastructure costs, frequent security breaches, and limited scalability.

Solution:

- Migrated key systems to **Microsoft Azure** with **microservices architecture** and **OAuth 2.0 security frameworks**.
- Integrated **24/7 monitoring** using **Grafana and Azure Monitor**.
- Implemented **parallel QA testing** to ensure smooth transitions and zero downtime.

Impact:

- **35% reduction in OPEX** through optimized resource allocation.
- **99.9% uptime** achieved with real-time monitoring and proactive alerts.
- **40% faster deployment cycles** using automated CI/CD pipelines.
- **Compliance achieved** with **GDPR** and **PCI DSS** standards.

Why Choose ClearVue Solutions?



Security First

We prioritize security throughout every phase, ensuring **global compliance** with frameworks like GDPR and SOC 2



Seamless Integration

Parallel QA ensures zero-disruption deployments and smooth transitions.



Cost Efficiency

Our **cost-efficient migration strategies** reduce operational overhead and improve long-term ROI.



Customized Solutions for Your Industry

With expertise in **travel, fintech, and automotive**, we build solutions tailored to your industry's needs.



Let's Migrate Securely, Efficiently, and Seamlessly

Ready to **unlock the benefits of cloud migration** with enhanced security, compliance, and cost savings? **Get in touch** with our cloud experts for a **free consultation** and discover how ClearVue can transform your business.