Microsoft
Cloud Solution Provider

Microsoft
Gold Partner

open source ™

CLOUD VALLEY

Modernization of Web Applications to Microsoft Azure

About Cloud Valley

Commit Group

Since the introduction of the cloud, our architects have designed creative and advanced solutions. A gold partner of Microsoft Azure, we draw up and actuate the innovative infrastructure which fits your organization's unique situation. Part of the Commit group, Israel's leading systems house and innovation powerhouse, our 500 multi-disciplinary innovation experts have been providing customers with unique and integrative solutions since 2005

- **A Partner You Can Trust -** From planning through deployment to ongoing maintenance and support, Cloud Valley's Azure experts are the perfect partner on your journey to the cloud

- **One Stop Shop -** With extensive experience in SaaS, IoT, Data & Analytics, Cyber and DevOps, Commit is the Microsoft Gold Partner who can design and deliver the perfect solution for your business

- **Perfect Delivery**- From established industry leaders to the newest start-ups, Commit will work with you from conceptualization through software development and QA to end-delivery, to ensure your solution is market-ready in the quickest and most cost-effective way possible

>> Click Here to learn more about Cloud Valley

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Our Offering & Methodology

Cloud Valley's migration process constitutes four main steps. These steps allow for a successful and organized migration, while providing full transparency to ensure client expectations are understood, shared, and fulfilled. This process creates maximum success for the process while meeting predetermined goals. The steps are:

1. **Assessment -** Analysis of requirements, analysis of the current situation, refactoring, and creation of a migration plan.

2. **Migration -** Migration of the application and the data in accordance with an orderly plan and milestones that enable customer follow-up and consistent progress, either re-Architect or re-platform on Azure Managed cloud services such as AKS, App Services, APP GW and more

3. **Hardening & Monitoring -** Monitoring and securing the environment's information in accordance with best practices, while adapting to customer's needs and the required compliance. This includes Azure LandingZone and Governance, RBAC, network segmentation, endpoint protection, Azure WAF and other applicative hardening, Infra and App logging via Azure Monitor, Log Analytics, Sentinel and more.

4. **Operations -** Operating the environment until the final transition to production, including an orderly transfer. Assist customer design CI/CD and automation utilizing Azure Devops, Arm and Terraform templates for IaaC and more.

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Case Study: Miltel
Better Data By Far…

➤ About Miltel

Miltel provides IoT-based monitoring solutions to of municipal infrastructure such as water, sewage, waste management etc. The company provides end to end solution including the sensor hardware, communication, data collection and processing software, database, as well as end user monitoring and management interface

➤ The Challenge

Miltel had a very small local data center, including virtual servers for all its applications. Miltel wished to adapt its ICT infrastructure to the company's business growth and support its penetration to global markets worldwide, as well as replacing its aging hardware. Considering the alternatives, and assisted by Cloud Valley, Miltel decided to migrate is core application (DataSense) to Microsoft Azure

➤ The Solution

The migration included modernization of the application infrastructure, transitioning some services to Microsoft Azure Platform as a Service (PaaS) solutions, as well as adding system hardening and application security to improve information security of the overall solution

Contact us to get the Design Document and Solution Architecture

➤ Business Outcomes

✓ Transitioning DataSense application into Software as a Service (SaaS)

✓ Maximizing the solution ROI, using scalable infrastructure

✓ Reducing overhead costs of infrastructure management, allowing the Miltel to focus on developing its core product, while reducing maintenance costs

✓ Adding application-layer security and compliance with information security industry standards

✓ Improving SLA-related KPIs (e.g., high availability)

✓ Supporting Miltel new and old products as one

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Case Study: TIPRANKS™

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About TipRanks

TipRanks is the most comprehensive dataset of analysts, hedge fund managers, financial bloggers, and corporate insiders. TipRanks provides answers to the most basic questions: are they reliable and accurate? What is their track record? Are there better opinions out there? And, most importantly- should I listen to this person? TipRanks stops the guessing game and shows you an updated and accurate view so you can make the most educated investment decisions. TipRanks has become the go-to tool for part-time to professional investors and everyone in the financial world.

The Challenge

TipRanks is a cloud native startup. It migrated to the Azure cloud several years ago, before many of the newer PaaS services were available for use. Even though its main application was built with Microsoft Azure web services, it was utilizing classic virtual machines and older cloud services, as is the practice for many startups. This setup had two major setbacks. Firstly, it did not match the current security practices. Secondly, it used virtual machines and cloud services that were outdated.

The Solution

The heart of the TipRanks migration process was app modernization and updating on the cloud. The TipRanks system was cloud native from the start, but as the years passed, the development methodologies and cloud components they had utilized had get laid off or outdated. New capabilities and components emerged that enable efficiency and improved performance, along with better information security. It was required that we focus on a short, efficient migration and modernization process, which also matches the existing technological knowledge and stack within the organization, while allowing the customer to continue to develop new capabilities of their product.

Contact us to get the Design Document and Solution Architecture

Business Outcomes

✓ Moving to a SaaS solution, replacing the old licensing model

✓ Improved performance and user experience

✓ High availability

✓ Reducing time-to-market by reducing the cycle time for development, release, and deployment of new features and capabilities

✓ Eliminating change-related downtime

✓ Ongoing, updated security levels for the solution.

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Accelerated App Modernization Workshop by Cloud Valley

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- Our intro level workshop is targeted towards:

- Companies building a new Application or software-as-a-service (SaaS) product.

- Companies transitioning from traditional software and technology delivery models to a Cloud Application or SaaS business model.

- Companies optimizing and modernize an existing Application solution.

<u>About the workshop:</u>

Develop your Application & SaaS strategy and roadmap and accelerate delivery of application services on Azure.

In this workshop, we use reference models coupled with our proven track record for application modernization. We present and assess best practices and methodologies, explore your business's services readiness in terms of both organizational and business model, and outline the initial required roadmap for your cloud solution.

The workshop is comprised of 5 days sessions.

Accelerated App Modernization Workshop by Cloud Valley

Workshop Content:

Subject	Details
Product	• Application components, application flow and interfaces
	• SaaS models, customer type and profile.
	• Tenant Provision flow and onboarding process
SW and application architecture	• Existing architecture review, focus on modernizing and tuning to meet SaaS requirements.
	• Multi tenancy vs. silo approaches
	• Application layer, Container platform and microservices.
	• Application Tenant - SSO and Session level security
	• Application-level logging and alerting
	• Non-Functional Requirements
	• Data and storage
Cloud concepts	• Landing Zone and governance (organization, management, security)
	• Application Service cloud platform and Multi-Tenant conceptual design
	• Performance and Auto Scaling
	• Automation Provisioning and Continuous Deployment
Business & Operations	• Compliance and Regulations
	• Cost Optimized SaaS Platforms
	• SLA (Service Level Availability)
	• Business Continuity and Disaster Recovery
	• Monitoring and ticketing systems
Cloud Best Practices	• Security
	• Reliability
	• Performance
	• Cost Optimization
	• Operational Excellence

Accelerated App Modernization Workshop by Cloud Valley

Workshop Assessment Deliverables:

At the end of the workshop, you will have actionable recommendations and a roadmap with clear definitions of the appropriate technological approach that is relevant for you, from product to operations to ensure a successful Cloud modernized application journey.

This conclusive high-level design for your SaaS solution, with SoW and cost estimations, features:

- Cloud & SW Conceptual Architecture
- Cloud resources initial cost estimation
- Conceptual Azure cloud landing Zone
- Initial SaaS Gap Analysis and modernization guidelines
- SoW and cost estimation for Cloud Platform Design & Build
- Concepts of CI/CD and Automation Deployment
- Guidelines for Service Production Readiness
- Initial cost estimation for ongoing operations

Accelerated App Modernization Workshop by Cloud Valley - Agenda

Day 1

      Required Team – Business, Product, Technical

- Introduction
- Product review
    - Application components, application flow and interfaces
    - SaaS models, customer type and profile.
    - Tenant Provision flow and onboarding process

Day2

      Required Team – SW & IT Tech team

- SW & App Architecture
    - Existing architecture review, focus on modernizing and tuning to meet SaaS requirements.
    - Multi tenancy vs. silo approaches
    - Application layer, Container platform and microservices.
    - Application Tenant - SSO and Session level security
    - Application-level logging and alerting
    - Non-Functional Requirements
    - Data and storage

Day3

Required Team – IT & Security Tech team

- Cloud Concepts
  - o Landing Zone and governance (organization, management, security)
  - o Application Service cloud platform and Multi-Tenant conceptual design
  - o Performance and Auto Scaling
  - o Automation Provisioning and Continuous Deployment

Day 4

- Business & Operations
  - o Compliance and Regulations
  - o Cost Optimized SaaS Platforms
  - o SLA (Service Level Availability)
  - o Business Continuity and Disaster Recovery
  - o Monitoring and ticketing systems

Day 5

- Present Deliveries
- Discuss and Review SOW, Resources and Cost estimations
- Summary

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