SOFTEQ

Experts in Building Azure Cloud-Based IoT Solutions

Creating single-purpose functional components and end-to-end IoT solutions under one roof

Microsoft Partner | Gold Application Development
Gold Application Integration

We Start Where Others Find the Puzzle Too Complicated

The whole IoT system consists of many layers—devices, sensors, embedded software, cloud infrastructure, web, and mobile applications. Softeq makes all these parts work in sync. We build scalable IoT solutions that grow together with your business.

CHALLENGES

Each client wants to make sure all the IoT components function, exchange data, and interact with an existing digital infrastructure properly.

IDEAL SOLUTION

For every IoT solution we choose:

- Connectivity option
- Hardware platform
- Communication protocol (or develop a custom one, if required)

DESIRED OUTCOMES

We create the most cost-effective solution for our clients and ensure reliable communication between IoT devices.

SOFTEQ

We Provide **Full-Range** Cloud Services

Our certified experts will assist you at any point during your cloud journey—building a SaaS app, creating a cloud infrastructure, or upgrading your legacy IT system.

Cloud Optimization

We review the cloud environment to help reduce its total cost of ownership. Also, we optimize the cloud architecture and enhance the solution uptime to maximize ROI.

Cloud Integration

We create a hybrid environment where on-premise and Azure-based software systems work in sync, thus ensuring their data integrity, as well as faster and safer operations.

Migration to the Cloud

We perform solution inventory, code analysis, and risk assessments. We also elaborate a thorough migration plan that guarantees minimal or zero migration downtime.

Our **Microsoft Azure** Expertise

SOFTEQ

- **Gateways**
  - Azure API Management

- **Media**
  - Azure Content Delivery Network
  - Azure Media Services

- **Compute**
  - Azure Web Apps
  - Azure Kubernetes Service
  - Azure Functions
  - Azure VMs
  - Azure Service Fabric

- **Containers**
  - Azure Container Registry

- **IoT**
  - Azure Device Provisioning Service
  - Azure IoT Hub

- **Storage**
  - Azure SQL Database
  - Azure Cosmos DB
  - Azure Storage Account
  - Azure Cache

- **Push Notifications**
  - Azure Notifications Hub

- **Security**
  - Azure Active Directory
  - Azure Key Vault

- **Integrations**
  - Azure Service Bus
  - Azure Event Grid
  - Azure SignalR

- **AI**
  - Azure Cognitive Services

We Build Scalable, Cost-Effective, and Secure Cloud Solutions

Agility, Flexibility, and Scalability

Our Azure-based solutions are customizable according to your business processes. They can also be scaled up and down to meet your current budget.

Efficiency and Cost Reduction

We provide a fully-fledged cloud solution that will allow you to:

- Save on purchasing and maintaining expensive hardware, utilities, and facilities

- Build and operate your own data centers

Ultimate Security

Our expert team ensures all your data is properly encrypted and secured in real-time, anywhere in the cloud and across all your cloud apps, services, and systems.

Azure Project **Lifecycle**

Needs Assessment/ Requirements Acquisition

- Problem Statement
- Current and Future State Requirements
- Technical Requirements
- Project Roadmap

1

Solution Discovery

- Scope and Vision
- Solution Architecture Outline
- Technology & Solution Recommendations
- Technical Requirements Outline & Guidelines

2

Prototyping

- PoC Report
- PoV Analysis
- Proven Solution Architecture
- Technical Requirements
- Sizing Report
- Estimations

3

Business Analysis

- Requirements Specification
- Flows and diagrams
- UI Mockups
- Sizing Report
- Estimations

4

Development & Testing

- Hardware
- Firmware
- Mobile Apps
- Back End + Front End
- Developer Kit (incl. Design Documentation)

5

Production Activities

- Contract Manufacturing (HW)
- GTM (Platform Launch)
- O&M
- Support

6

Depending on the client's needs, we adjust required activities to meet project goals.

Our Projects Based on Azure Services

Softeq builds all types of Asure-based solutions: cloud-native apps, hybrid apps, custom software as a service (SaaS), and platform as a service (PaaS) components.

We use Azure Cloud services to develop IoT solutions with fast and secure communication between their components.

Azure-based Back End for an IoT Collar

Azure IoT Hub and Service Bus ensures reliable communication between the collar and the mobile app.
Azure Redis Cache provides relevant telemetry data for the back end.
Using Azure Notification Hubs, the solution sends notifications about zone changes (pet left a safe zone, pet returned, etc.) and other events to the user's smartphone.

Media Labeling Web App

We integrated Azure services to:

- Redesign our client's solution architecture

- Migrate media storages from the on-premises servers into the cloud

This allowed the customer to automate their media labeling operations, thus processing more data.

Azure SignalR for AR-Glasses Stable Calls

We used Azure SignalR Service to solve the problem of the client's AR-glasses back end failure. The system crashed with the increasing number of data requests.
Azure SignalR helped reduce the load on the back end. The service allowed us to forward the signal from the AR-glasses directly to the right addressee with no data syncing and no cache.

We Provide Cloud-Related Services

CLOUD CONSULTING

We can assist at any point of your cloud project:

- Consulting on cloud microservices integration or upgrading your cloud system
- Preparing a detailed roadmap for custom cloud service development
- Transitioning to a cloud environment
- Building a cloud infrastructure

DEVOPS AND CLOUD MANAGEMENT

Our DevOps team can make your system native to the cloud with their experience in:

- Cloud automation
- High-load distribution
- Fault tolerance design
- Cloud environment configuration

Our maintenance and support services ensure well-balanced distribution of cloud resources and continuous cloud integration/delivery.

CLOUD DEPLOYMENTS

We ensure your cloud overhaul does not disrupt your existing business processes. To this end we will assess, plan, and carry out:

- Cloud application development
- Integration and deployment of cloud-based applications
- Migration of your IT infrastructure to the cloud

Softeq at a Glance

SOFTEQ

FAST FACTS

ESTABLISHED

With the goal to deliver technical software

1997

CUSTOMERS

Innovative startups and companies from Fortune

100

MANPOWER

Highly qualified engineers, managers, and analysts

350+

NET PROMOTER SCORE

On par with a world-class score

75

Microsoft Gold Partner

Microsoft Azure Partner

Xamarin Partner

ISO 9001
Quality Management Systems

ISO 27001
Information Security

Inc. 5000 2021 LIST
Fourth consecutive year Inc.5000 honoree

Flexible Engagement Models

SOFTEQ

Time & Materials

Best for R&D and exploration

- Short-term development tasks

- Total cost is determined by the amount of time and effort spent

Dedicated Team

Best for long-term stability

- A stable team with the relevant skill set

- Monthly payments depending on the team's size

Fixed Price

Best for cost control when SoW is firm

- Low-risk approach

- Pre-defined deliverables

- A set timeline

SOFTEQ

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