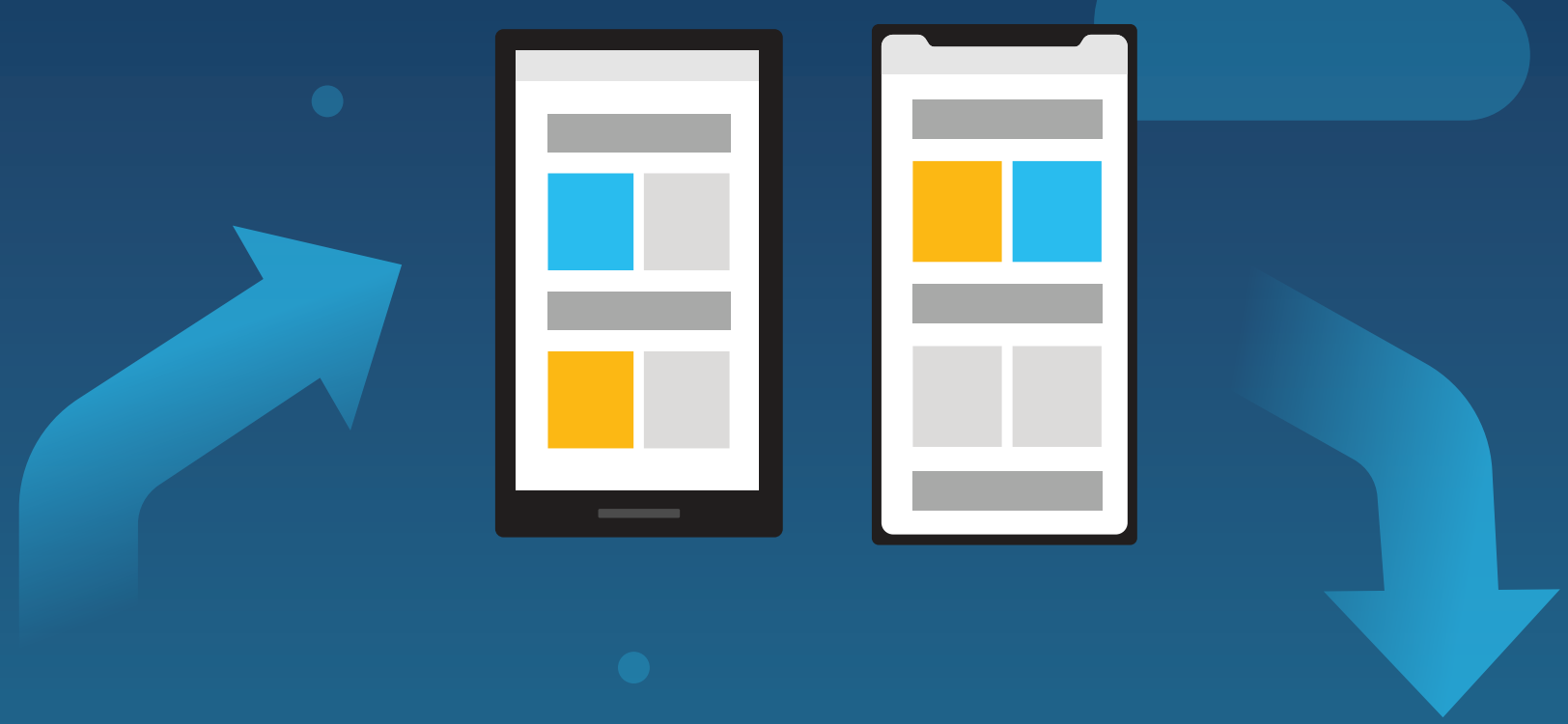


Mobile apps using Xamarin + Azure



Visual Studio

Quickly build, test, deploy, and manage mobile apps with Visual Studio 2017, Visual Studio for Mac, and cloud-powered services.

aka.ms/vs/xamarin

Visual Studio App Center

Automate the lifecycle of your apps built with Xamarin. Ship apps more frequently, at higher-quality, and with greater confidence. Connect your repo to build in the cloud, test on thousands of real devices, distribute to beta testers, and monitor real-world usage with crash and analytics data.

aka.ms/vs/app-center

Deliver quality mobile apps

With advanced debugging, profiling tools, unit tests, and UI test generation features, it's faster and easier than ever for you to design, build, and tune native mobile apps for Android, iOS, and Windows.

Collaborate efficiently

Manage your code in Git repos, hosted by any provider, including GitHub and Visual Studio Team Services.

Share projects seamlessly with developers using Visual Studio across Windows and Mac.

Create intelligent services

Visual Studio 2017 and Visual Studio for Mac enable the creation of .NET Core solutions, providing the services that power your apps. Code, debug, and test these cloud services simultaneously with your apps for increased productivity.

Build in the cloud

Build Swift, Objective-C, Java, React Native, Xamarin, and UWP apps with every commit or on demand, without the headache of managing build agents.

Monitor your app health

Get real-time crash reports, notifications, detailed stack traces, and easy-to-read logs to quickly diagnose and fix problems in beta or production apps.

Test on real devices

Test your app on thousands of real devices and hundreds of configurations in the cloud. Automate UI tests for your apps with popular testing frameworks.

Analyze and learn faster

Understand your customers' app usage with analytics about your core audience—devices, locations, session info, language, and more.

Distribute apps instantly

Put apps in the hands of your beta testers and users on multiple device platforms—send different builds to different groups of testers and notify them via in-app updates.

Engage users with push notifications

Integrate push notifications into your apps in a few easy steps. Segment your audience and engage them with targeted messaging at the right time.



Data

Store structured and unstructured data in cloud services that are highly available, secure, durable, and scalable.



Azure Cosmos DB

Build extremely low latency and massively scalable databases that can be transparently replicated worldwide, to always be near your users.

aka.ms/vs/xamarin/cosmos-db



Azure SQL Database

Build high-performance, reliable, and secure relational databases for data-driven apps, without needing to manage infrastructure.

aka.ms/vs/xamarin/azure-sql-db



Azure Storage

Securely store blobs, unstructured data, and files that can be accessed from anywhere in the world, publicly and privately.

aka.ms/vs/xamarin/azure-storage



Search

Enterprise-grade search solution for all types of internal data, with fast querying and advanced search options.



Azure Search

Add powerful and sophisticated search capabilities to your app.

aka.ms/vs/xamarin/azure-search



Artificial Intelligence

Use Artificial Intelligence to infuse your apps with algorithms to see, hear, speak, understand, and interpret your users' needs through natural communication.



Azure Machine Learning

Use existing data to forecast future behaviors, outcomes, and trends, such as estimating product demand, predicting sales figures, and analyzing marketing returns.

aka.ms/vs/xamarin/azure-ml



Azure Cognitive Services

Use computer vision to identify, caption, and moderate photos and video.

Convert spoken audio into text, add speech recognition to your app, and enable your apps to process natural language.

aka.ms/vs/xamarin/cognitive



Communication

Absorb unexpected traffic bursts, which prevent servers from being overwhelmed by a sudden flood of requests.



Azure Storage Queue

Integrate application components using simple, durable messaging.

aka.ms/vs/xamarin/azure-queue



Azure Service Bus

Integrate application components that span multiple communication protocols, data contracts, trust domains, and network environments, while using structured FIFO messaging and publish/subscribe capabilities.

aka.ms/vs/xamarin/service-bus



Mobile Back-end as a Service (MBaaS)

Quickly build powerful back-end services with high reliability, security, and scalability.



Azure Functions

Run code in response to a variety of events, without having to provision or manage infrastructure, in your development language of choice. Build rich serverless scenarios by integrating multiple Azure offerings.

aka.ms/vs/xamarin/azure-functions



Azure App Service Mobile Apps

Store data in a mobile-friendly data source and provide secure access through Azure AD, social network sign-in, or OAuth.

Make data available offline and sync when online.

Engage your customers with push notifications.

aka.ms/vs/xamarin/app-service-mobile



Azure App Service API Apps

Move your API to production and redirect traffic to the new version without any downtime.

Connect your API to your corporate or local network using on-premises connections with enterprise-grade security.

aka.ms/vs/xamarin/azure-api



Identity

Secure and powerful customer identity and access management.



Azure Active Directory B2C

Enable your app to authenticate with social accounts, enterprise accounts, local accounts, and custom identity providers.

aka.ms/vs/xamarin/azure-ad