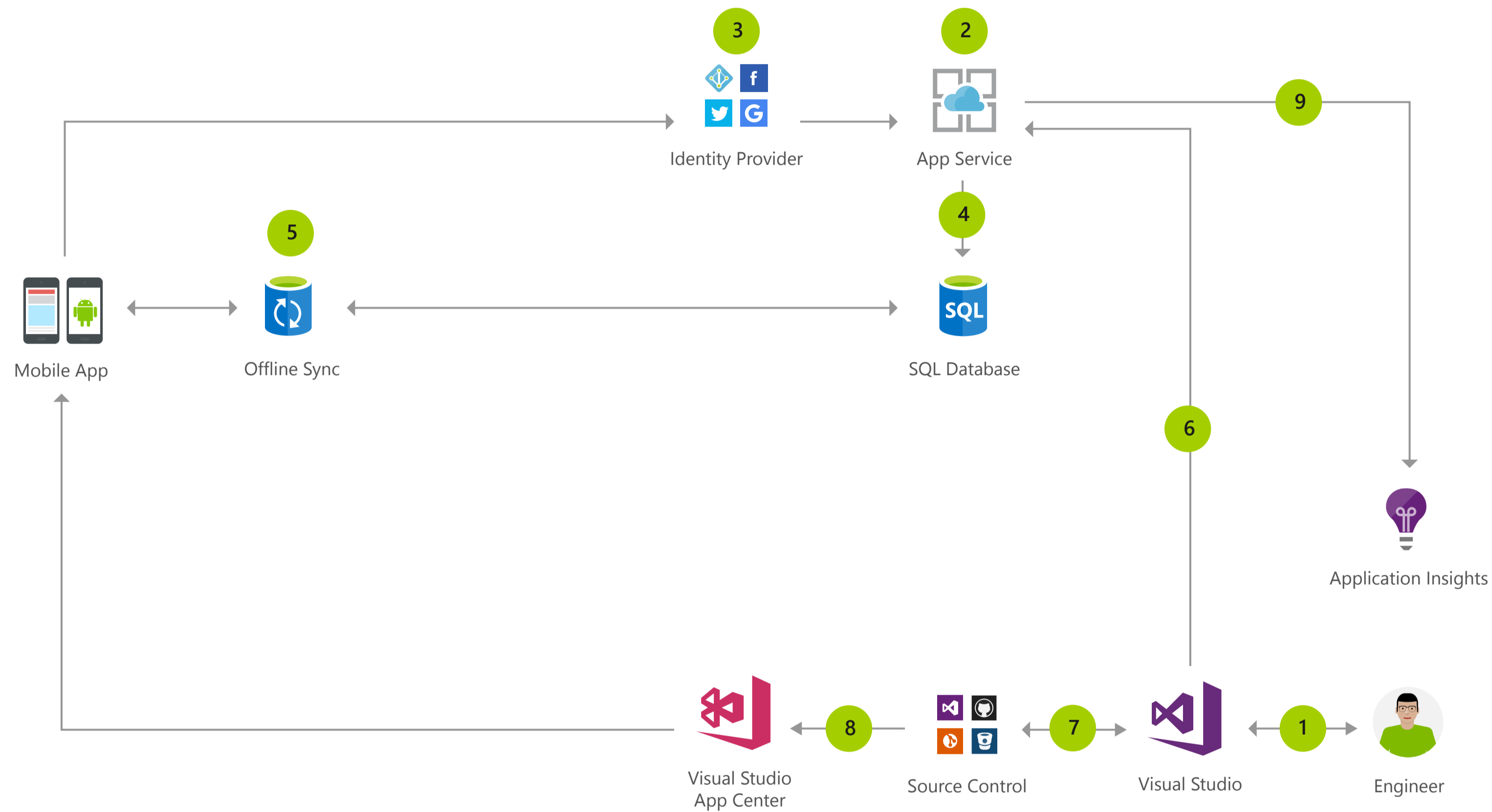


# Task-based consumer mobile app








## Architecture overview

This consumer mobile app architecture uses Azure App Service Mobile Apps to simplify authentication with multiple social identity providers, store data and sync it for offline access, and send push notifications. The app is built with Visual Studio (PC or Mac) and Xamarin, sharing C# code across Android, iOS, and Windows without compromising user experience. Visual Studio App Center is used to automate builds and tests, and distribute to beta testers or app stores, while also providing usage monitoring and analytics in conjunction with App Insights.

- 1 Create the mobile app using Visual Studio and Xamarin.
- 2 Add a Mobile Apps back-end in Visual Studio and configure the app to use it.
- 3 Implement authentication through social identity providers.
- 4 Create a model-driven data structure through the App Service APIs and SDK.
- 5 Implement offline sync to make the mobile app functional without a network connection.
- 6 Publish the App Service directly from Visual Studio (PC or Mac).
- 7 Store the solution source code with your source control provider of choice.
- 8 Build and test the app through Visual Studio App Center and publish it.
- 9 Use Application Insights to monitor the App Service.

## Products

-  Visual Studio
-  Visual Studio Team Services
-  Visual Studio App Center
-  Application Insights
-  App Service Mobile Apps