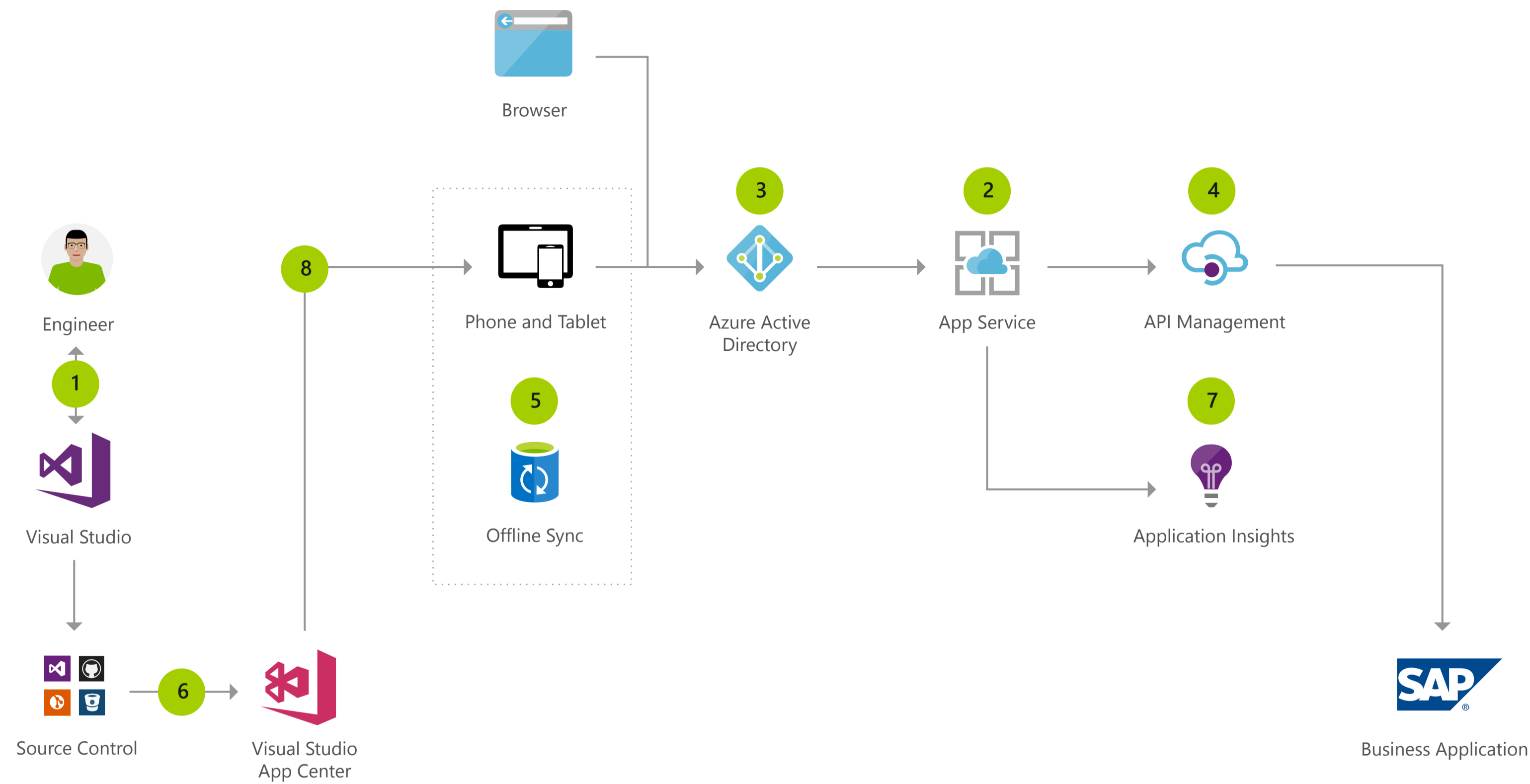


Custom mobile workforce app



Architecture overview

This mobile workforce app architecture uses Active Directory to secure corporate data from an SAP back-end, delivered to devices via Azure App Service API Management.

A Xamarin.Forms client app, with support for iOS, Android, and Windows, works offline and allows field engineers to view and edit the jobs assigned to them.

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 app using Visual Studio and Xamarin.
- 2 Add the Azure App Service Mobile Apps back-end to the app solution.
- 3 Implement authentication through Azure Active Directory.
- 4 Connect to business data in external systems like SAP using Azure API Management.
- 5 Implement offline sync to make the mobile app functional without a network connection.
- 6 Build and test the app through Visual Studio App Center and publish it.
- 7 Deploy the app to devices using App Center.
- 8 Use Application Insights to monitor the App Service.

Products

