Continuous Everything

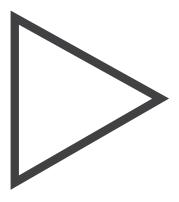
Mobile Apps im Griff mit dem Visual Studio App Center

Andreas Richter

Continuous what?

- Everything in App Development
 - Build
 - Distribute
 - Crash Reporting
 - Analytics
 - Test

Continuous Build



Was kann das App Center bauen?

- Android
 - Java
 - React Native
 - Cordova (preview)
 - Xamarin
- iOS
 - Objectiv-C / Swift
 - React Native
 - Cordova (preview)
 - Xamarin
- Windows
 - UWP
- macOS (preview)
 - Objective-C / Swift

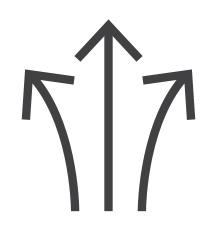
Voraussetzungen

- git
 - Branches (optional)
- git Hosting
 - GitHub
 - BitBucket
 - Visual Studio Team Services

Demo

- git (git flow)
- Build Configuration pro Branch
- Automatic Version Code
 - Build Number
 - Timestamp
- Build Scripts
 - Post-Clone
 - Pre-Build
 - Post-Build
- Environment Variables
- Build Status Badge

Continuous Distribute



Wie verteilt das App Center meine App?

- Distribution Groups (Contributors, QS, Beta-Tester)
 - automatisch (nach jedem Build)
 - manuell (Build oder Upload)
- In App-Update
- Stores
 - Google Play, iTunes, Intune



- Build Configuration (Release, Ad-Hoc)
- Sign builds
- Distribute Builds

Continuous Crash Reporting



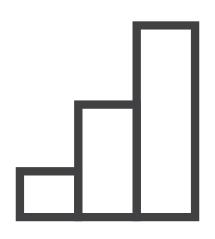
Wie hilft das App Center bei der Fehlersuche?

- Crashes
- Errors
- Logging & Reporting
- Issue Tracker
 - GitHub
 - Visual Studio Team Services
 - Jira

Demo

- App Center SDK einbinden
 - Microsoft.AppCenter
 - Microsoft.Crashes
- App Center starten
 - AppCenter.Start("...", typeof(Crashes))
- Error Tracking
 - Crashes.TrackError()
- Services Issue Tracker
 - Auto create Tickets

Continuous Analytics



Wie hilft das App Center beim analysieren?

- Usage Statistics
 - Active Users
 - Engagement
 - Devices and OS
 - Countries and Languages
 - per Version
- Event Logging
- Reporting

Demo

- App Center SDK einbinden
 - Microsoft.AppCenter
 - Microsoft.Analytics
- App Center starten
 - AppCenter.Start("...", typeof(Analytics))
- Events tracken
 - Analytics.TrackEvent("...");

Continuous Test



Was kann das App Center testen?

- Launch Test (Single Random Device)
- UI Tests (Device Set Hardware / Software)
 - Appium
 - Calabash
 - Espresso
 - Xamarin.UITest
 - XCUITest

Demo

• Test on a real device

Was gibt es noch über das AppCenter zu wissen?

Wissenswertes über das App Center

- Push Messages
- Webhooks (Slack / Microsoft Teams)
- Continuous Export
- Kein Alles oder Nichts
- App Center CLI
- App Center VSTS Steps
- 200+ Public APIs
- ...

Vielen Dank!

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