

EUROPE'S LEADING AEM DEVELOPER CONFERENCE 27th – 29th SEPTEMBER 2021

How to develop an Adobe Launch Extension Chris Haider, diva-e NEXT GmbH



About me



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What is this about

- Provide a general understanding regarding Launch and its Extensions
- Required tools and items
- Creating the setup to develop a Launch Extension
- Overall: Provide the most important information



Launch and its Extensions

- Successor of Adobe DTM
- Tag Management System
- Rule based
 - Events
 - Conditions
 - Actions
- Catalog === App Store / Google Play Store
- Extensions === Apps





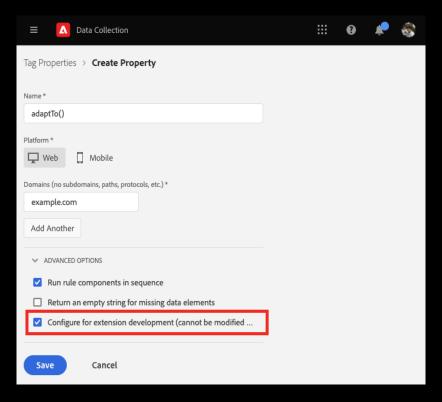


Tools & Requirements

- Node.js (https://nodejs.org/en/)
- Know-How (JavaScript, HTML, CSS)
- Access to Launch
- Dummy website



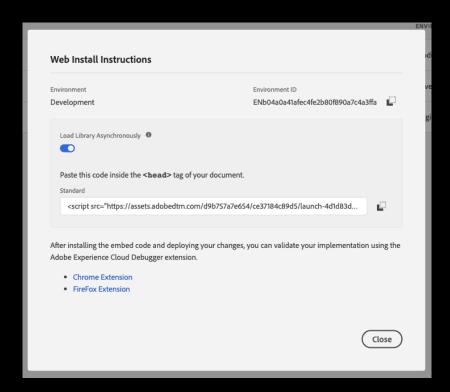
Preparing the Environment



- Create a new Launch Property
- Be sure to check the "Configure for extension development" checkbox within the "Advanced Options"



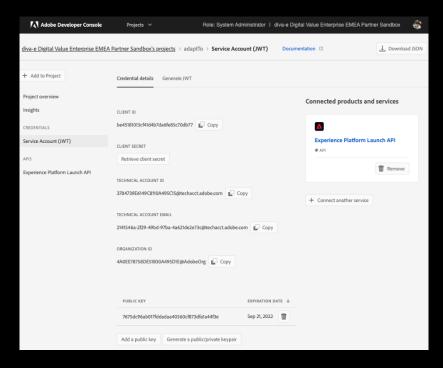
Preparing the Environment



 Integrate the Launch "Development Environment"-Script on Dummy Website



Preparing the Environment



- Create a Service Account (JWT) via the Adobe I/O console (adobe.io/console)
- The following information will be required to publish and share the extension
 - Private Key
 - Organization ID
 - Technical Account ID
 - Client ID / API Key
 - Client Secret



Setup

Scaffold

- npx @adobe/reactor-scaffold
- "The scaffold tool allows extension developers to quickly and easily build out the initial file structure of a Launch extension"
 - Rule types: Event / Condition / Action
 - Data elements
 - Shared modules
 - Exchange URL
 - Icon path



Coding

- "VIEW" Scripts
 - Used to get input / data from users
 - Provide "extensionBridge" functions

```
init()
getSettings()
validate()
```

- "LIB" Script
 - Used for the actual functions
- Styling (Optional)
 - Hint: Adobe Spectrum (https://spectrum.adobe.com/)



Debugging

Sandbox

- npx @adobe/reactor-sandbox
- "Provides a sandbox in which you can manually test your Launch extension. You can test both your views that will eventually appear in the Launch application and your library logic that will eventually run on the user's website"
- Available under http://localhost:3000 (HTTP)
 or https://localhost:4000 (HTTPS)



Private Publish

Packager

- npx @adobe/reactor-packager
- "The extension packager is a command-line utility for packaging a Launch extension into a zip file suitable to be uploaded to Launch"

Uploader

- npx @adobe/reactor-uploader"
- "The uploader tool allows extension developers to easily upload their Launch extension to the Launch extension marketplace. It can be used for uploading brand new extension packages or new versions of existing extension packages"



Public Publish

Releaser

- npx @adobe/reactor-releaser
- "The releaser tool allows extension developers to easily change the availability of their Launch extension. It can be used to change the availability from development to private"
- Use the Public Release Request Form to get it released to the Adobe Launch Catalog
 - https://adobe.allegiancetech.com/cgi-bin/qwebcorporate.dll?idx=7DRB5U



References & Links

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 - https://webanalyticsfordevelopers.com/2018/01/23/launch-make-an-extension-coding/
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- Jeff Chasin's "Extension Intro" Series
 - https://www.youtube.com/playlist?list=PLOdw8u2F8ClgynzKrPEwCPuDxzHW1WP5m
- MisterPhilip's "Awesome Adobe Launch" Guide
 - https://github.com/MisterPhilip/awesome-adobe-launch
- Datanalyst's "Creating Adobe Launch Extension" Series
 - https://www.datanalyst.info/web_analytics/adobe-launch/creating-adobe-launch-extension-introduction/



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- Adobe's "Extension Development" Documentation
 - https://experienceleague.adobe.com/docs/experience-platform/tags/extension-dev/overview.html?lang=en
- Adobe's Launch Extension NPM Packages
 - https://www.npmjs.com/package/@adobe/reactor-scaffold
 - https://www.npmjs.com/package/@adobe/reactor-sandbox
 - https://www.npmjs.com/package/@adobe/reactor-packager
 - https://www.npmjs.com/package/@adobe/reactor-validator
 - https://www.npmjs.com/package/@adobe/reactor-uploader
 - https://www.npmjs.com/package/@adobe/reactor-releaser



References & Links

- Adobe Spectrum (Component Library)
 - https://spectrum.adobe.com/
- Adobe Launch (Tags Documentation)
 - https://experienceleague.adobe.com/docs/launch.html?lang=en
- Open Source & Example Extensions
 - Facebook Pixel (React) (https://github.com/facebookincubator/reactor-extension-facebook-pixel)
 - Adobe Alloy (https://github.com/adobe/reactor-extension-alloy)
 - Adobe's Core Extension (https://github.com/adobe/reactor-extension-core)
 - Pinterest (https://github.com/jeffchasin/extension-pinterest)
 - PitchMuc's Extension (https://github.com/pitchmuc/launch_extension)