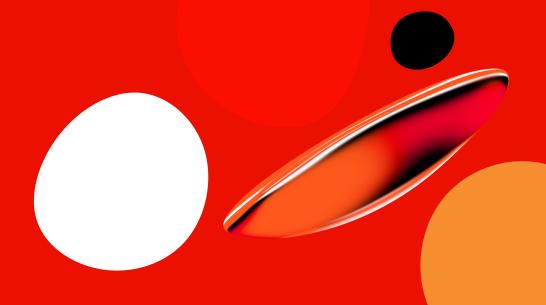
DEVELOPERS LIVE



Content & Commerce with Adobe Experience Manager as a Cloud Service

Markus Haack

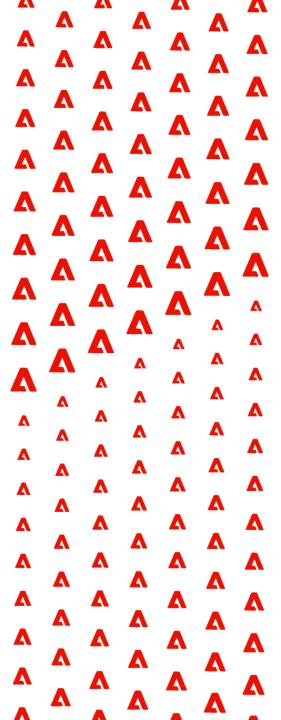


About Me



Markus Haack Tech Lead AEM Commerce









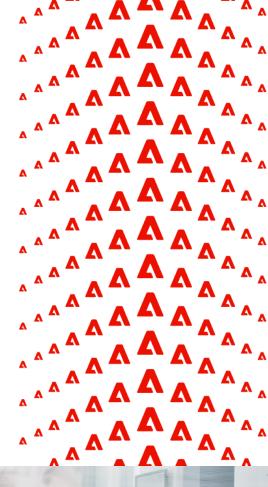
Intro to AEM Content & Commerce



AEM Commerce as a Cloud Service

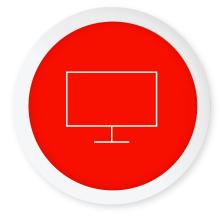


AEM Commerce Local Development





Adobe Experience Manager Content and Commerce



Adobe Experience Manager

A powerhouse combo of Content and Digital Asset Management for exceptional commerce experience creation and delivery



Adobe Commerce Integration Framework (CIF)

Connecting commerce engines with AEM to provide a seamless content and commerce authoring experience with live product context



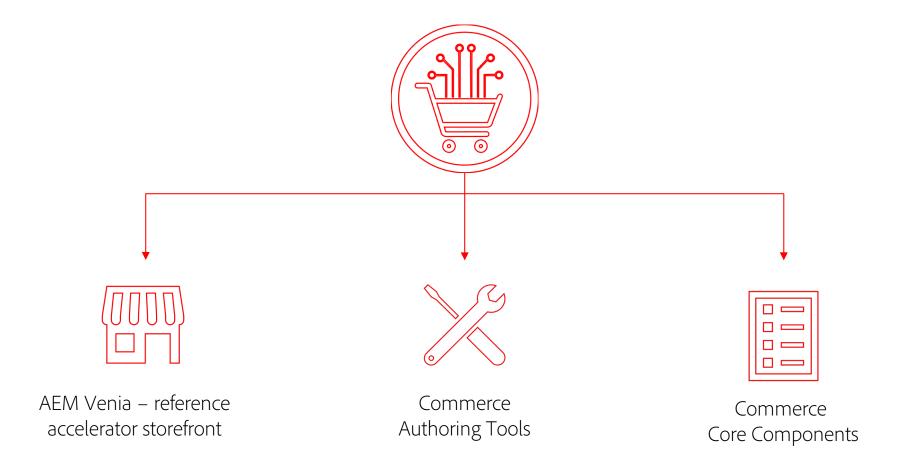
Commerce Engines

Supporting commerce engine integration from Magento Commerce to any commerce engine(s)

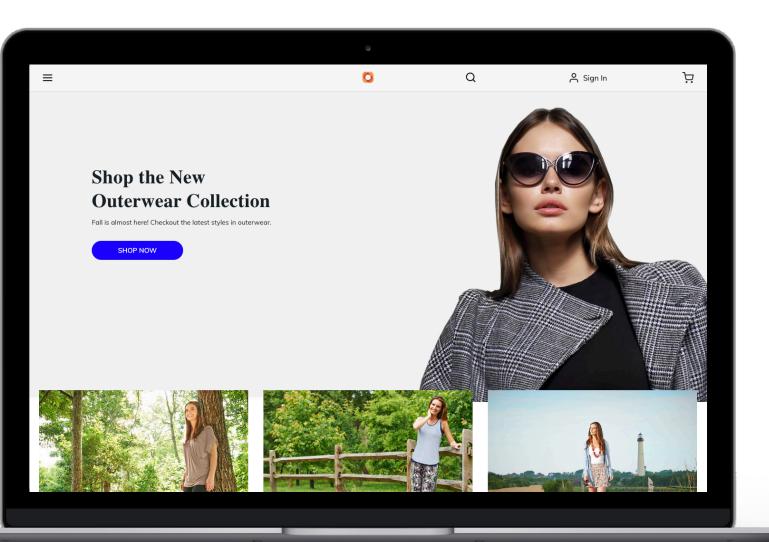




Commerce Integration Framework building blocks

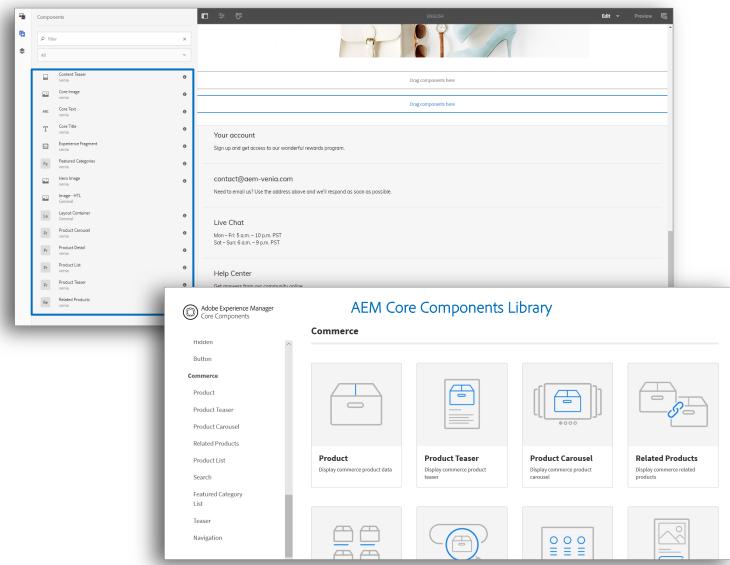


Production-ready AEM Venia Reference Storefront



- Accelerate storefront development on AEM
- Visualize typical B2C experience
- Achieved with CIF Core Components
- Open-source: https://github.com/adobe/aem-cif-guidesvenia

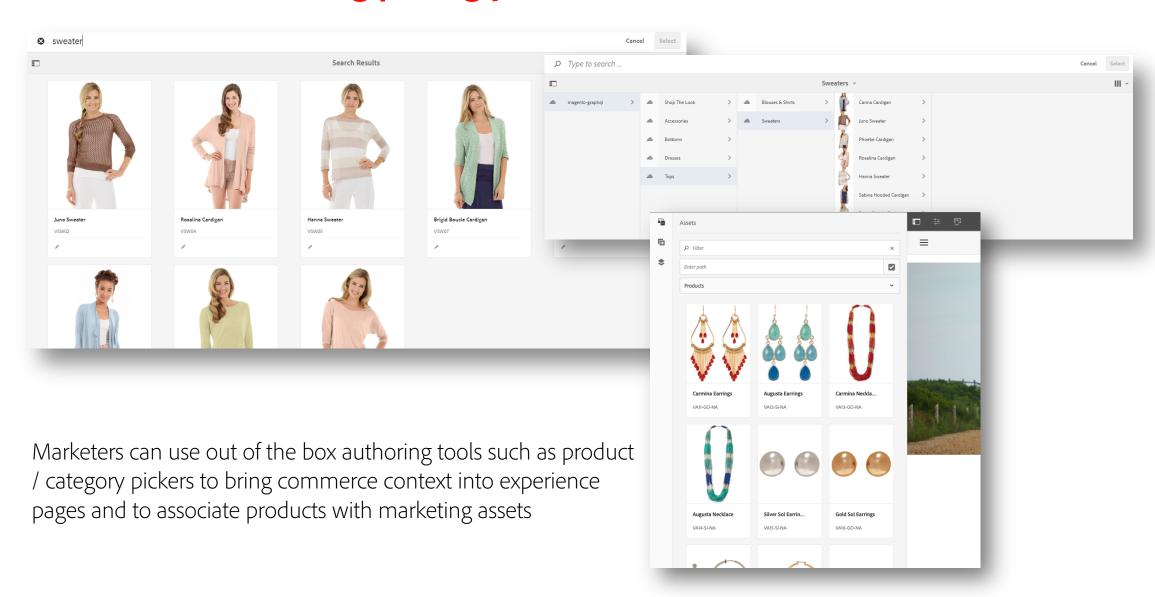
Commerce Core Components



- Commerce Core Components are part of AEM Components Library
- Reduce the need for custom code and help accelerate time to market
- Building blocks that can be easily extended by developers to build a flexible foundation for future optimizations
- Configurable with easy drag & drop functionality for marketers to create experience pages with content and commerce
- Internationalization support for all components

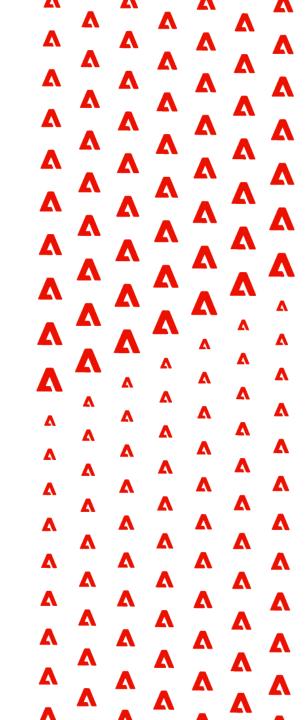


Commerce Authoring | Bring product context into AEM

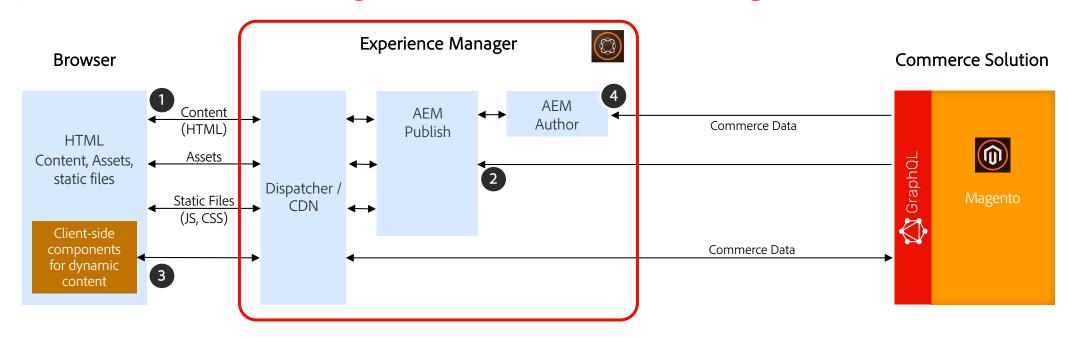


AEM Commerce as a Cloud Service

Architecture

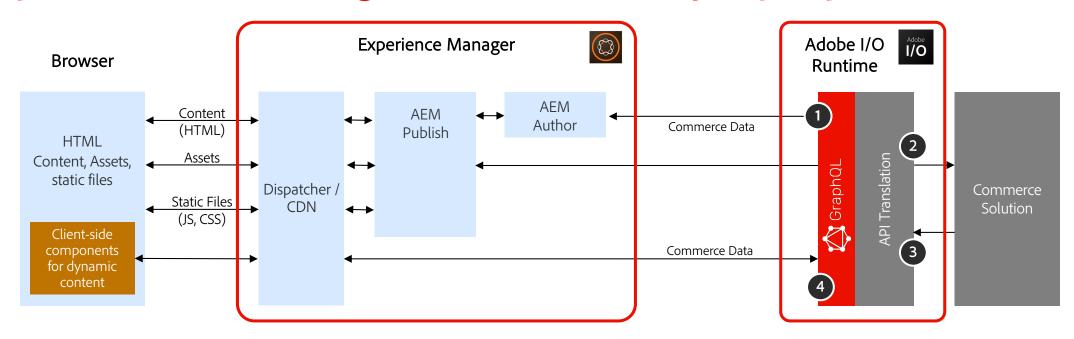


Today's AEM commerce high level architecture | Magento



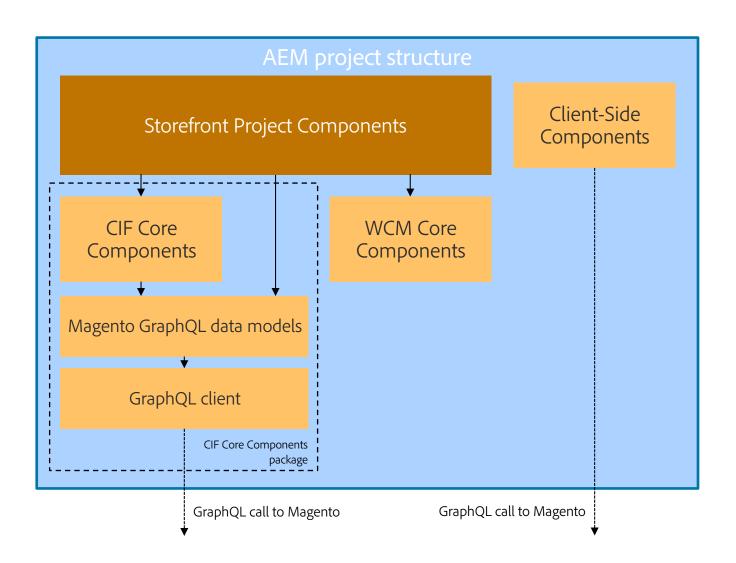
- Browser requests page, assets and static files from AEM Publish via Dispatcher / CDN
- 2 AEM Publish requests commerce data to render shopping experiences
- 3 Client-side components exchange non-cacheable data and render experience with Magento
- 4 AEM Author integrates staged and live product data for authoring tools

Today's AEM commerce high level architecture | 3rd party commerce



- GraphQL API endpoint provided via on Adobe I/O Runtime or custom alternative
- 2 GraphQL resolver will invoke I/O Runtime actions for request mapping
- 3 API response from commerce will be transformed into common GraphQL schema
- 4 GraphQL object hierarchy aggregated and send back to client

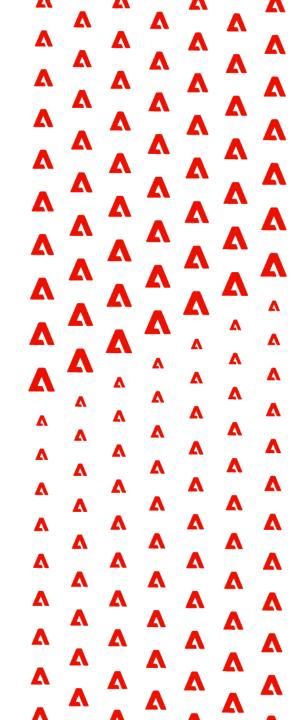
Commerce Core Components



- CIF Core Components are used as part of the customer project
- Embedded in our production-ready
 AEM Venia Reference Storefront
- Customer components will overlay CIF
 Core Components, similar like AEM
 WCM Core Components
- Core Components have data layer support build in
- Magento GraphQL models and GraphQL client are OSGI bundles, embedded in the CIF Core Components package

AEM Commerce as a Cloud Service

Start your engines



AEM & Commerce – Ready to start the project?

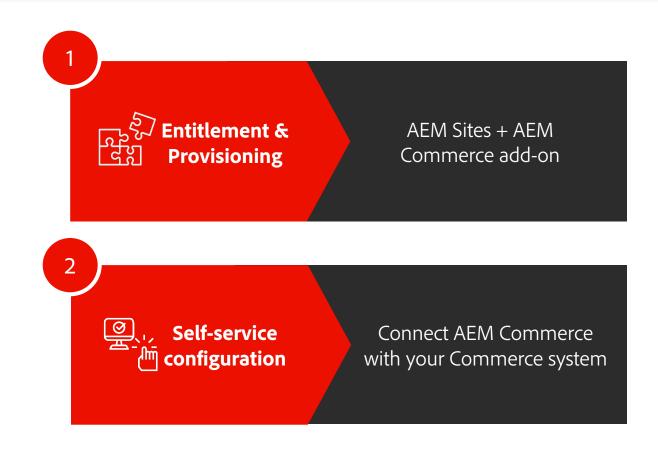
1 Onboarding to AEM Commerce

2 Connect to Commerce Solution

Deploy project code via Cloud Manager

Onboarding

Onboarding for AEM Commerce as a Cloud Service in two steps only



Connect AEM & Commerce

- Connect AEM to commerce system using AEM Cloud Service environment variables*
- Manage via Cloud Manager CLI tool
 - Adobe I/O CLI + Cloud Manger CLI plugin
 - Follow readme to setup authentication with Adobe I/O
- For AEM Commerce > only 1 environment variable COMMERCE_ENDPOINT required
- Optional Magento API token for preview and staged data access (requires Magento >= 2.4.2)

```
mhaack@mhaack-macbook-2: ~

Last login: Mon Jan 25 10:52:06 on ttys007

alo cloudmanager:list-environment-variables 12345

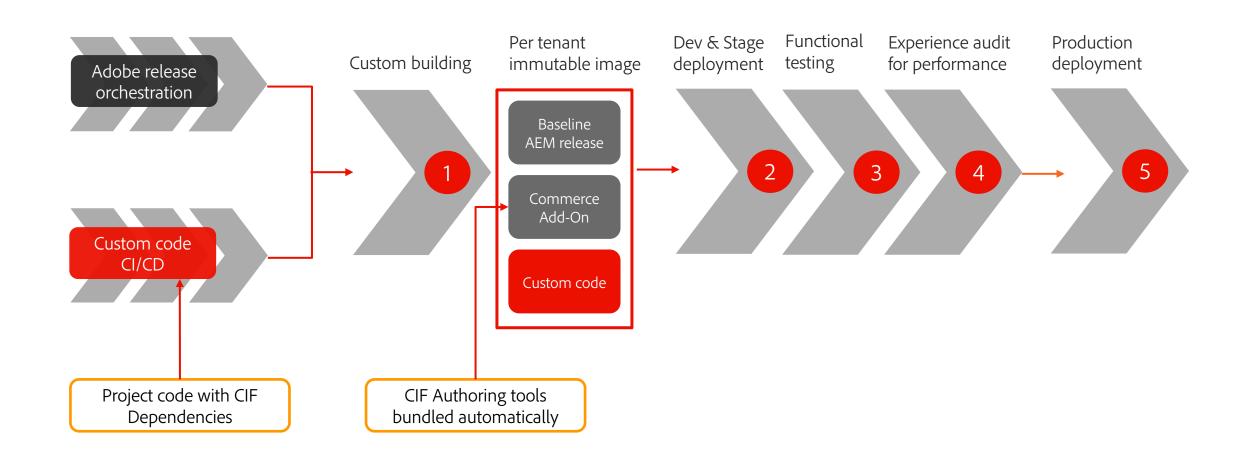
Name Type Value

COMMERCE_ENDPOINT string https://host.magentocloud.cloud/graphql
```

^{*} See https://experienceleague.adobe.com/docs/experience-manager-cloud-service/commerce/getting-started.html



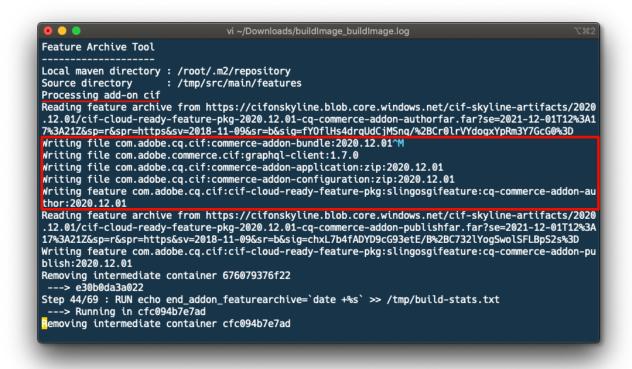
One CI/CD pipeline for delivering exceptional experiences

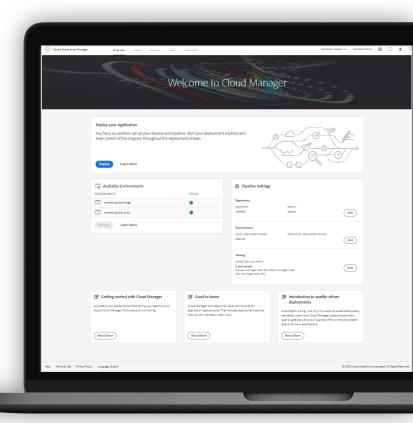




Get you project ready

- 3 ways to start: AEM Archetype or Venia Reference or manually add CIF dependencies
- Push to Cloud Manager Git repo and trigger manually or on git push
- Check CM image build logs for "Feature Archive Tool" and "CIF" messages

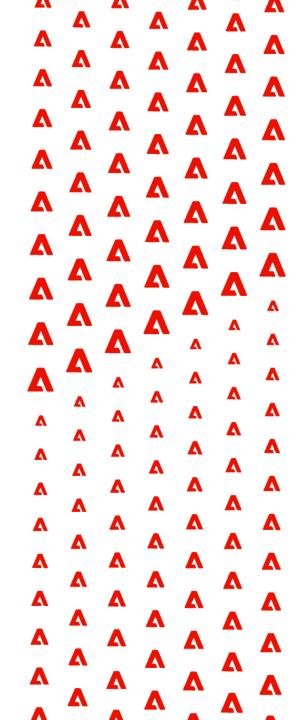






AEM Commerce as a Cloud Service

Local development setup



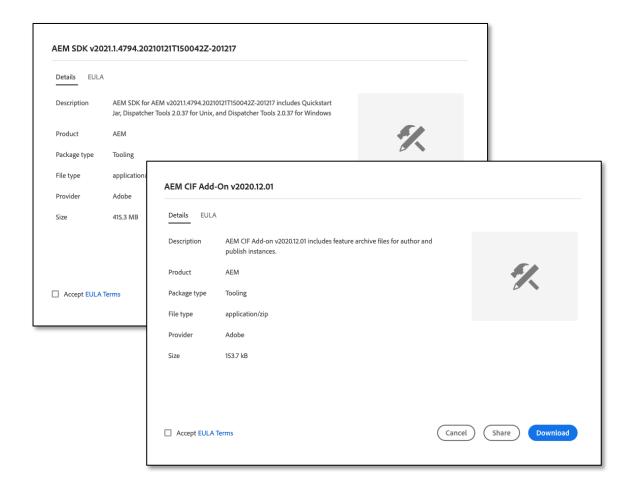
AEM & Commerce – Ready to start the project?

1 Get AEM Cloud SDK & CIF Add-On

2 Connect to Magento 2.3.5 or Magento 2.4

Deploy Venia reference project or start from AEM Archetype

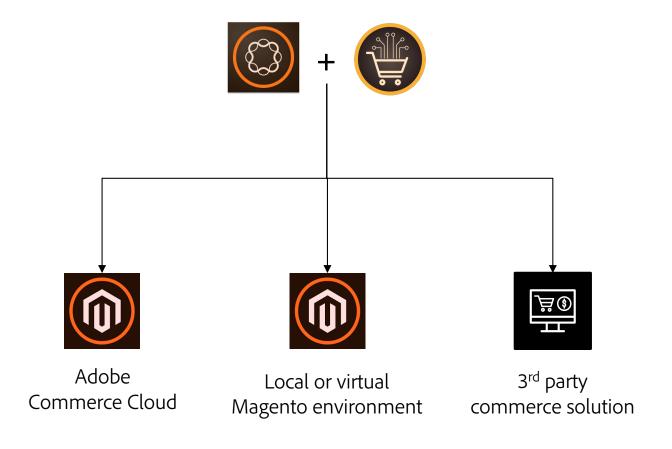




Adobe Software Download: https://experience.adobe.com/#/downloads/content/software-distribution/en/aemcloud.html







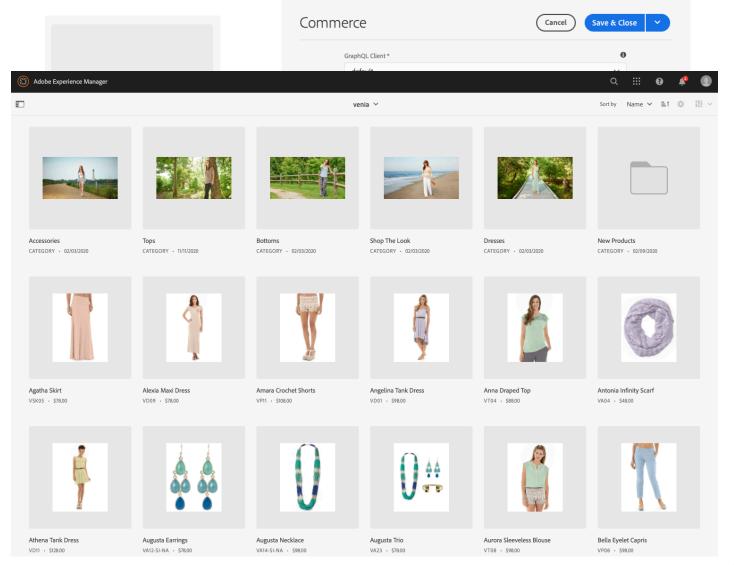


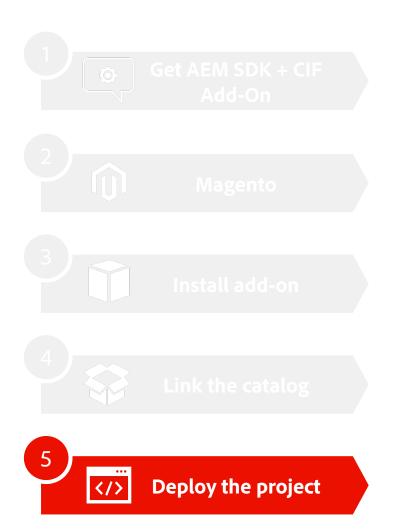
- Unpack the AEM .jar java -jar <jar name> -unpack
- Unpack the CIF add-on .zip
- Copy feature archive .far file to crx-quickstart/install
 - Use the correct one for AEM Author or AEM Publish
- Create a local OS environment variable named COMMERCE_ENDPOINT

```
Mac OSX: export COMMERCE_ENDPOINT=https://demo.magentosite.cloud/graphql Windows: set COMMERCE_ENDPOINT=https://demo.magentosite.cloud/graphql
```

Start the AEM SDK







- Project setup
 - Get AEM Venia reference project from GitHub
 - Alternative build new empty project from AEM Archetype
 - Existing project: add CIF dependencies

Install via Maven, like any other AEM project

mvn clean install -PautoInstallSinglePackage

Resources

Documentation

- AEM Commerce as a Cloud Service docs: https://experienceleague.adobe.com/docs/experience-manager-cloud-service/commerce/home.html
- Getting started with AEM Commerce as a Cloud Service: https://experienceleague.adobe.com/docs/experience-manager-cloud-service/commerce/getting-started.html
- Core Components Library: https://www.aemcomponents.dev/

GitHub Repositories:

- Commerce Core Components: https://github.com/adobe/aem-core-cif-components
- AEM Venia Reference Storefront: https://github.com/adobe/aem-cif-guides-venia
- AEM Project Archetype: https://docs.adobe.com/content/help/en/experience-manager-core-components/using/developing/archetype/overview.html

Support forum

• Experience League Community: https://experienceleaguecommunities.adobe.com/t5/adobe-experience-manager/ct-p/adobe-experience-manager-community

