

1. What is DAM and Why Do We Use It?

DAM stands for **Digital Asset Management**. It's a central repository within AEM where digital content like images, videos, audio files, PDFs, and other types of media are stored, organized, and managed.

Why Use DAM?

- **Centralized Storage:** It provides a central location for all digital assets, making it easier to organize and retrieve them.
- **Reusability:** Assets stored in the DAM can be reused across multiple pages and components without needing to upload them repeatedly.
- **Metadata Management:** You can add metadata (e.g., title, description, keywords) to assets for better searchability and management.
- **Renditions:** DAM allows the creation of multiple renditions (different formats or sizes) of the same asset for various uses (e.g., thumbnails, web-optimized images).
- **Versioning:** It allows version control of assets, so you can track changes over time and revert to previous versions if needed.

2. Create a Folder Inside the Project Folder and Upload 2 Images

In this step, we will create a folder under the DAM section and upload two images to it. Then, we'll use those images in a page through the AEM Image Component.

Steps:

1. **Log in to AEM Author:** Go to <http://localhost:4502> to access the AEM Author instance.
2. **Navigate to DAM:** In AEM, go to the **DAM** console:
 - Go to **Assets > Files** (under the AEM navigation).

3. Create a Folder:

- In the **DAM** interface, click the **Create** button on the top left, and choose **Folder**.
- In the folder creation dialog, provide the following structure:
 - **Folder Name:** myTraining/us/en-us
 - This will create a folder under /content/dam/myTraining/us/en-us.

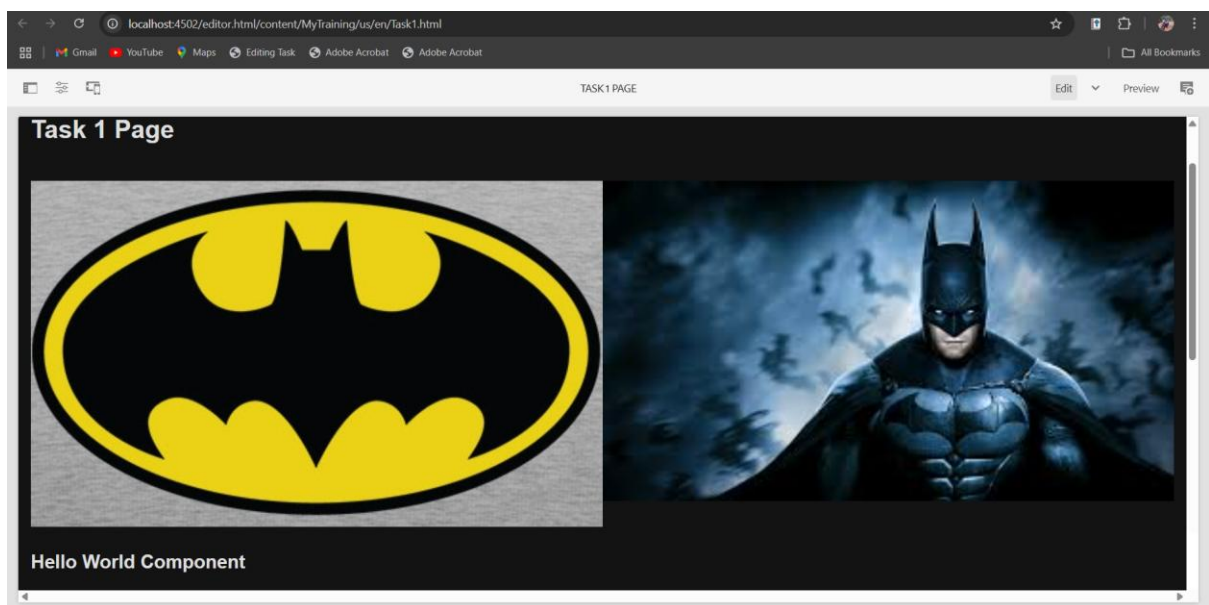
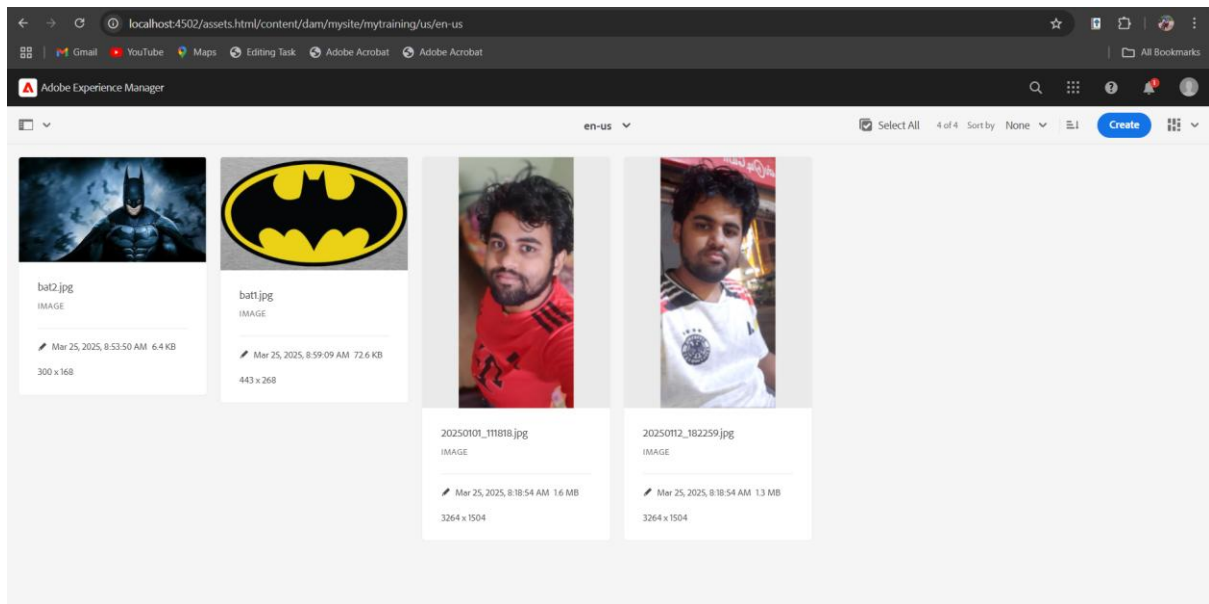
4. Upload Images:

- Inside the /content/dam/myTraining/us/en-us folder, click **Upload** and choose the 2 image files you want to upload.
- Once uploaded, you will see the images in this folder.

Add these Images to a Page:

To display the images on a page using the **Image Component**, follow these steps:

1. **Navigate to Pages:** Go to **Sites > Your Site** (the site where you want to display these images).
2. **Edit a Page:**
 - Select a page, and click **Edit** to enter page authoring mode.
3. **Add Image Component:**
 - In the page editor, drag and drop the **Image** component from the side panel (if available).
 - Select **Insert Image** and browse to /content/dam/myTraining/us/en-us, where your images are stored.
 - Select one of the images, and it will appear on the page.
 - Repeat this for the second image if needed.



3. What are Renditions? Check Renditions for the 2 Images

Renditions are different versions of the same digital asset. They are created automatically or manually and are often used to optimize the asset for specific purposes (e.g., web usage, mobile view, high-resolution prints).

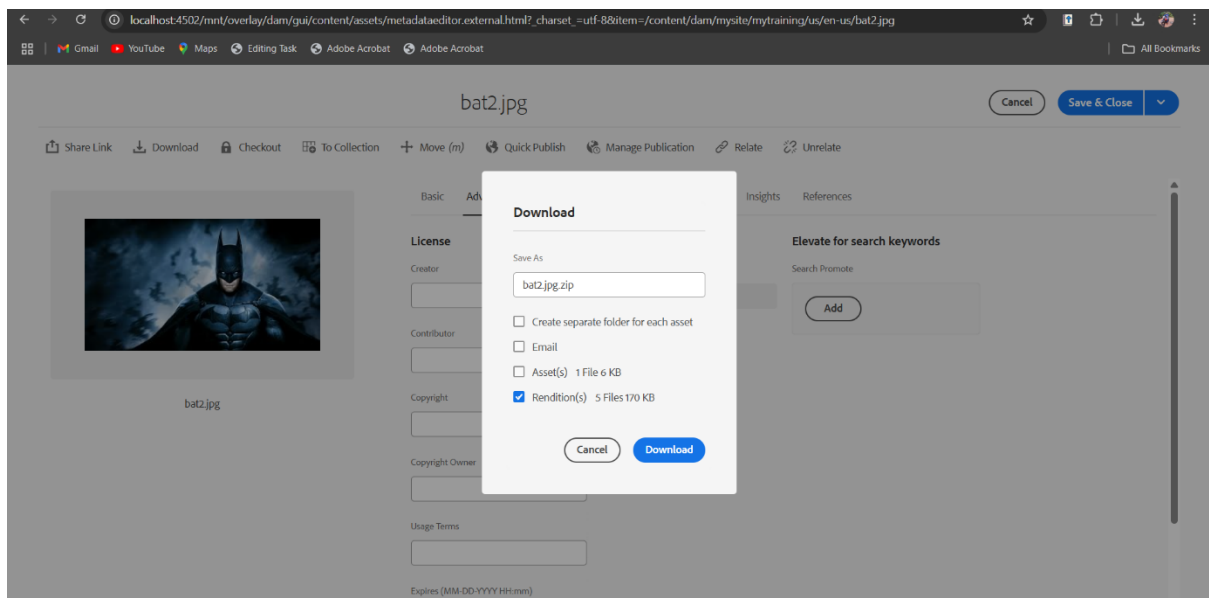
For example:

- You upload a high-resolution image (let's say 3000x2000 pixels) into AEM. AEM can automatically generate several renditions:

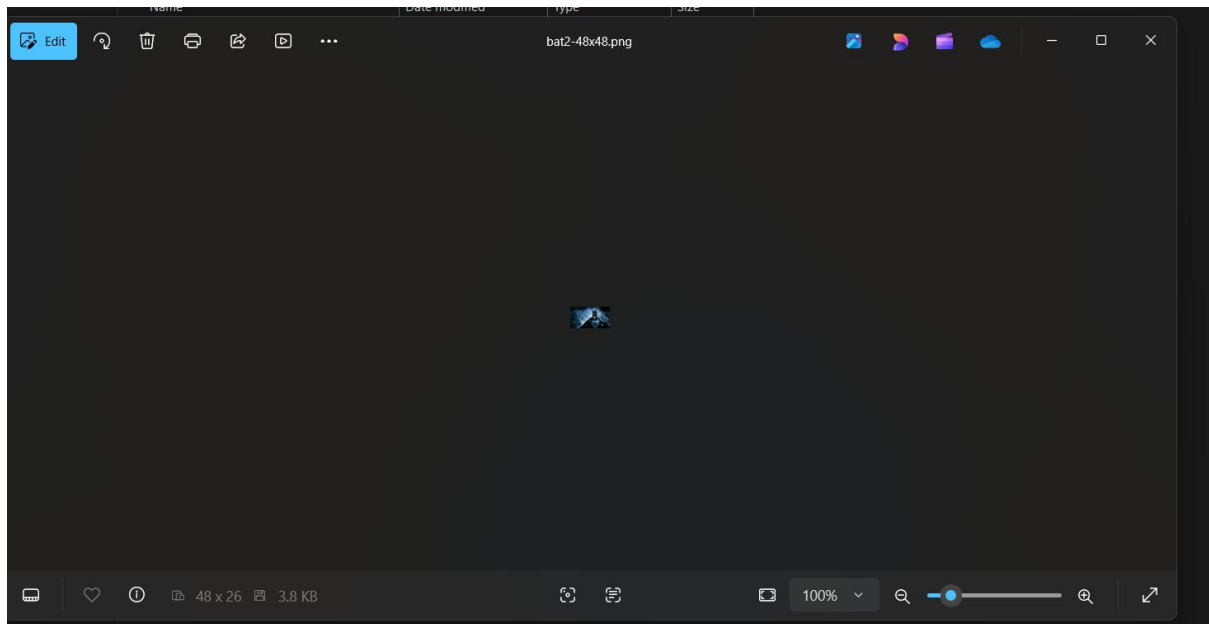
- A thumbnail (e.g., 100x100 pixels).
- A medium-sized image (e.g., 800x600 pixels).
- A full-size high-resolution image.

Steps to Check Renditions:

1. **Navigate to DAM:** Go to /content/dam/myTraining/us/en-us where your images are stored.
2. **Right-click on an Image:** Select one of the images you uploaded.
3. **View Renditions:** In the **properties** panel for the image, look for an option like **Renditions**. You should see different versions of your image, such as thumbnails or other resized versions.



Name	Date modified	Type	Size
bat2.211521104007	03-04-2025 18:37	JPG File	25 KB
bat2.jpg	03-04-2025 18:37	Compressed (zipp...	172 KB
bat2-48x48	03-04-2025 18:37	PNG File	4 KB
bat2-140x100	03-04-2025 18:37	PNG File	29 KB
bat2-319x319	03-04-2025 18:37	PNG File	103 KB
bat2-1280x1280	03-04-2025 18:37	JPEG File	12 KB

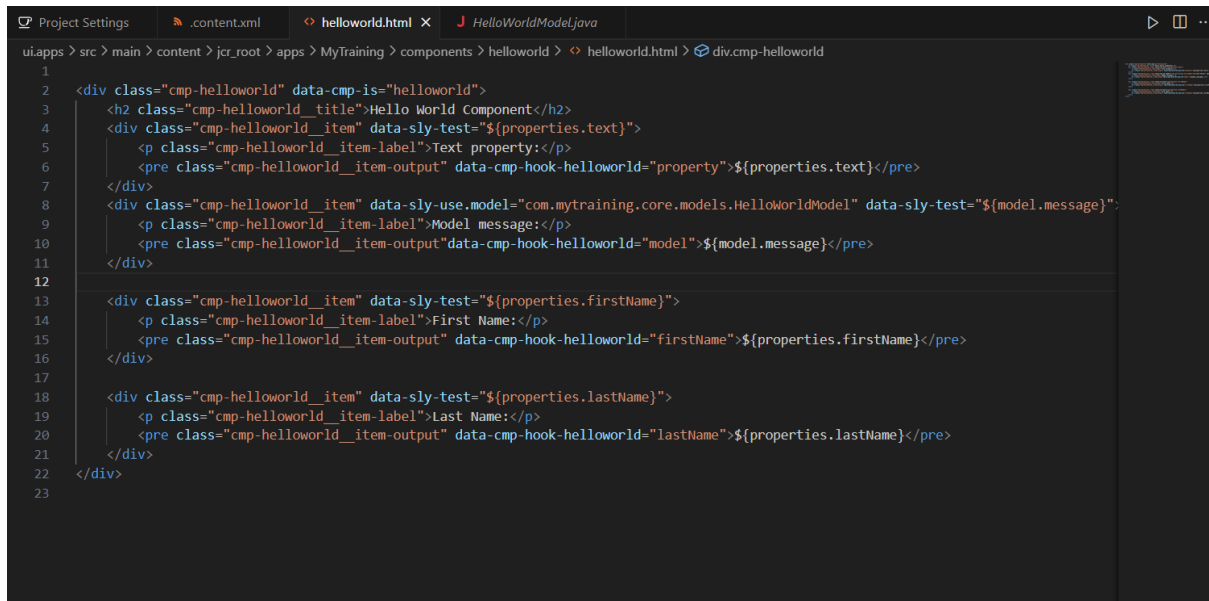


4. Add Two Fields (First Name and Last Name) to the HelloWorld Component

Changes in CQ dialog

```
Project Settings | .content.xml | helloworld.html | HelloWorldModel.java | ...
ui.apps > src > main > content > jcr_root > apps > MyTraining > components > helloworld > _cq_dialog > .content.xml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <jcr:root xmlns:sling="http://sling.apache.org/jcr/sling/1.0" xmlns:cq="http://www.day.com/jcr/cq/1.0" xmlns:jcr="http://www.jcp.org/jcr/1.0">
3   jcr:primaryType="nt:unstructured"
4   jcr:title="Properties"
5   sling:resourceType="cq/gui/components/authoring/dialog">
6     <content
7       jcr:primaryType="nt:unstructured"
8       sling:resourceType="granite/ui/components/coral/foundation/fixedcolumns">
9       <items jcr:primaryType="nt:unstructured">
10         <column
11           jcr:primaryType="nt:unstructured"
12           sling:resourceType="granite/ui/components/coral/foundation/container">
13           <items jcr:primaryType="nt:unstructured">
14             <firstName
15               jcr:primaryType="nt:unstructured"
16               sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
17               fieldLabel="First Name"
18               name="./firstName"/>
19             <lastName
20               jcr:primaryType="nt:unstructured"
21               sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
22               fieldLabel="Last Name"
23               name="./lastName"/>
24             <text
25               jcr:primaryType="nt:unstructured"
26               sling:resourceType="granite/ui/components/coral/foundation/form/textfield"
27               fieldLabel="Text"
28               name="./text"/>
29           </items>
30         </column>
31       </items>
32     </content>
33   </jcr:root>
```

Changes in helloworld.html



```
1 <div class="cmp-helloworld" data-cmp-is="helloworld">
2   <h2 class="cmp-helloworld_title">Hello World Component</h2>
3   <div class="cmp-helloworld_item" data-sly-test="${properties.text}">
4     <p class="cmp-helloworld_item-label">Text property:</p>
5     <pre class="cmp-helloworld_item-output" data-cmp-hook-helloworld="property">${properties.text}</pre>
6   </div>
7   <div class="cmp-helloworld_item" data-sly-use.model="com.mytraining.core.models.HelloWorldModel" data-sly-test="${model.message}">
8     <p class="cmp-helloworld_item-label">Model message:</p>
9     <pre class="cmp-helloworld_item-output" data-cmp-hook-helloworld="model">${model.message}</pre>
10  </div>
11
12   <div class="cmp-helloworld_item" data-sly-test="${properties.firstName}">
13     <p class="cmp-helloworld_item-label">First Name:</p>
14     <pre class="cmp-helloworld_item-output" data-cmp-hook-helloworld="firstName">${properties.firstName}</pre>
15   </div>
16
17   <div class="cmp-helloworld_item" data-sly-test="${properties.lastName}">
18     <p class="cmp-helloworld_item-label">Last Name:</p>
19     <pre class="cmp-helloworld_item-output" data-cmp-hook-helloworld="lastName">${properties.lastName}</pre>
20   </div>
21 </div>
22
23
```

6. Why Use Package Manager and Create JAR Packages?

The **Package Manager** in AEM helps in creating, managing, and deploying packages (like ZIP files) that contain your content, components, and configurations. It is used for:

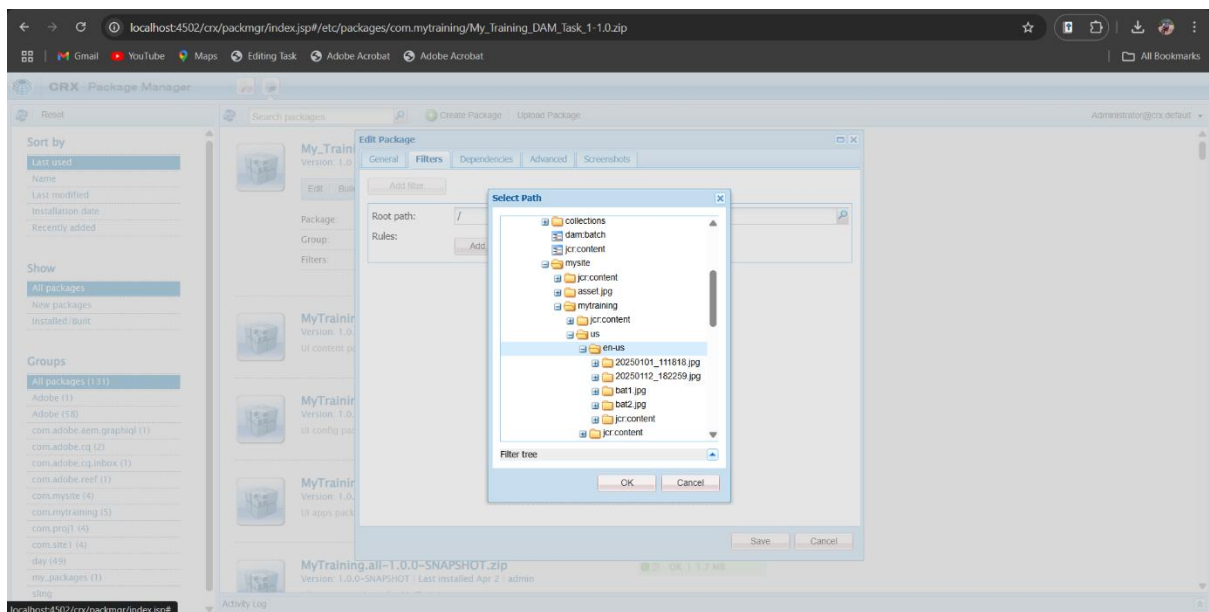
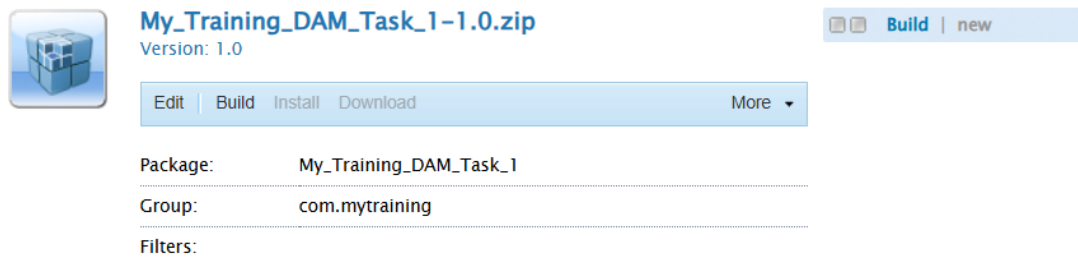
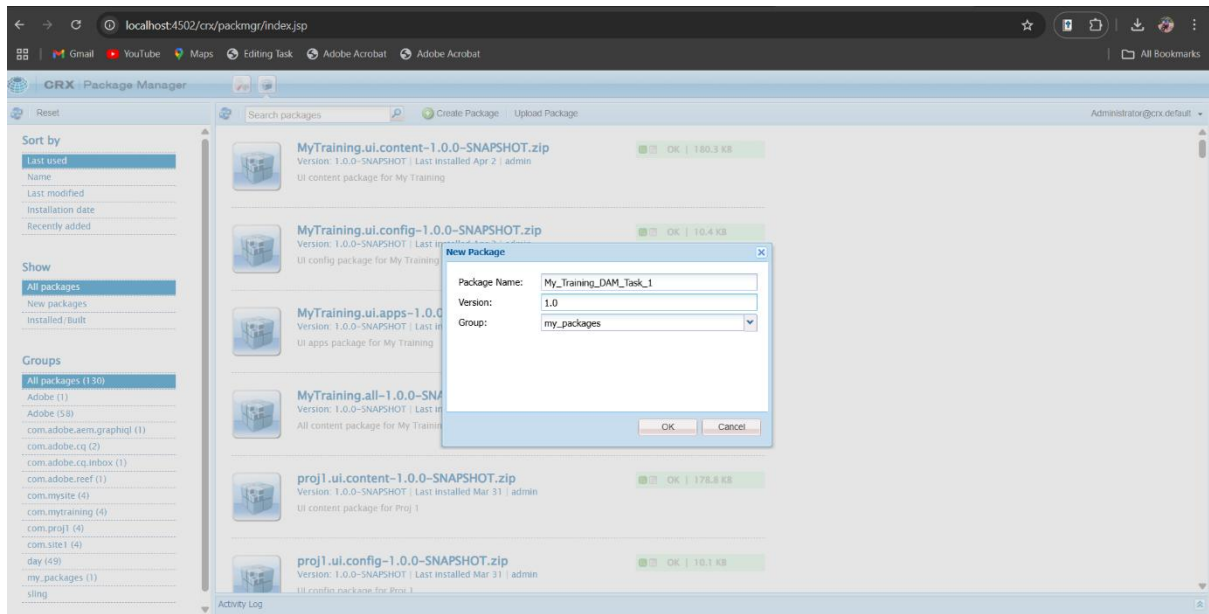
- Exporting content from one AEM instance to another (e.g., from author to publish).
- Backing up important parts of your AEM instance.
- Ensuring that all necessary assets (like images and components) are included together.

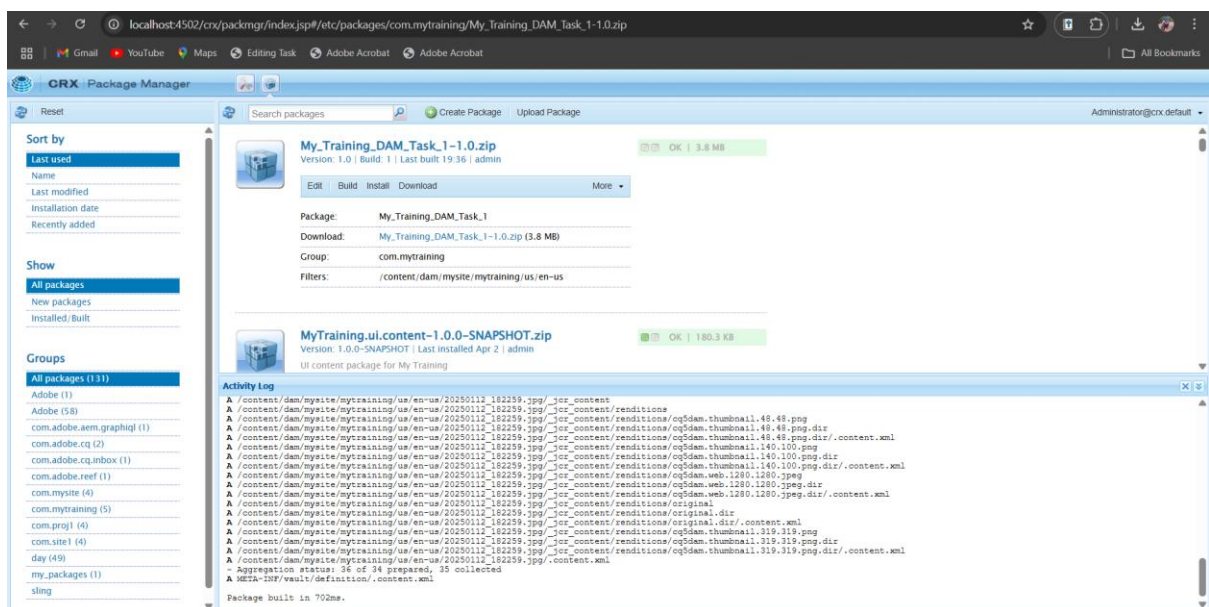
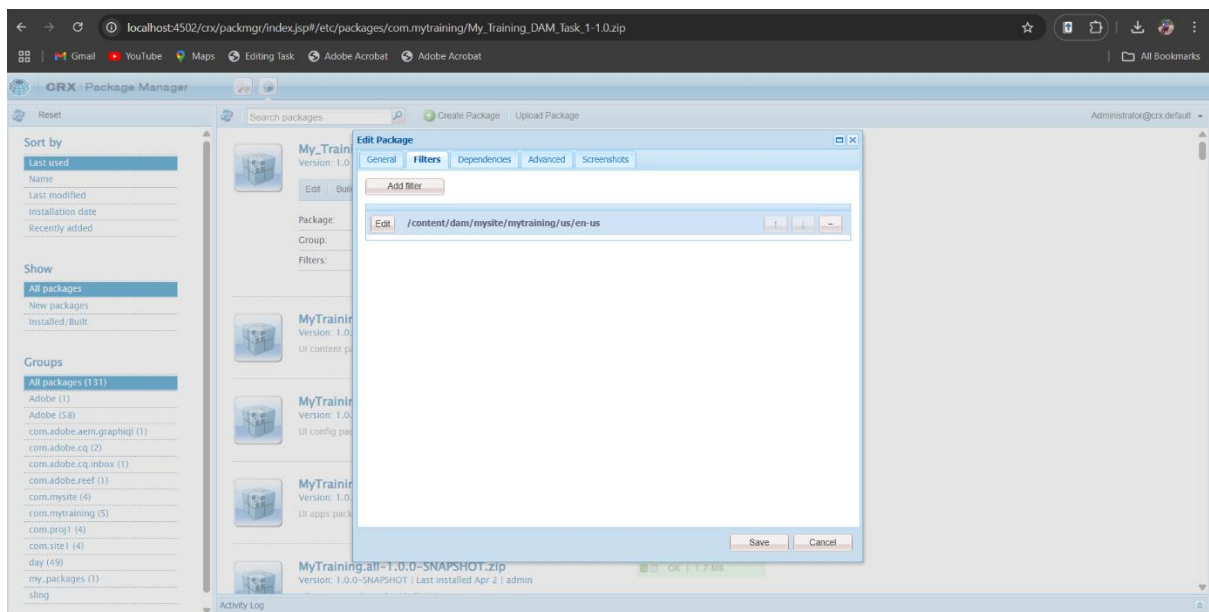
Steps to Create Packages:

1. Create Package for DAM (Images):

- Go to **AEM Package Manager** at `/crx/packmgr/index.jsp`.
- Click **Create Package**.
- Name it something like `myTraining-dam-images`.
- Under **Content**, add `/content/dam/myTraining/us/en-us` (where your images are stored).

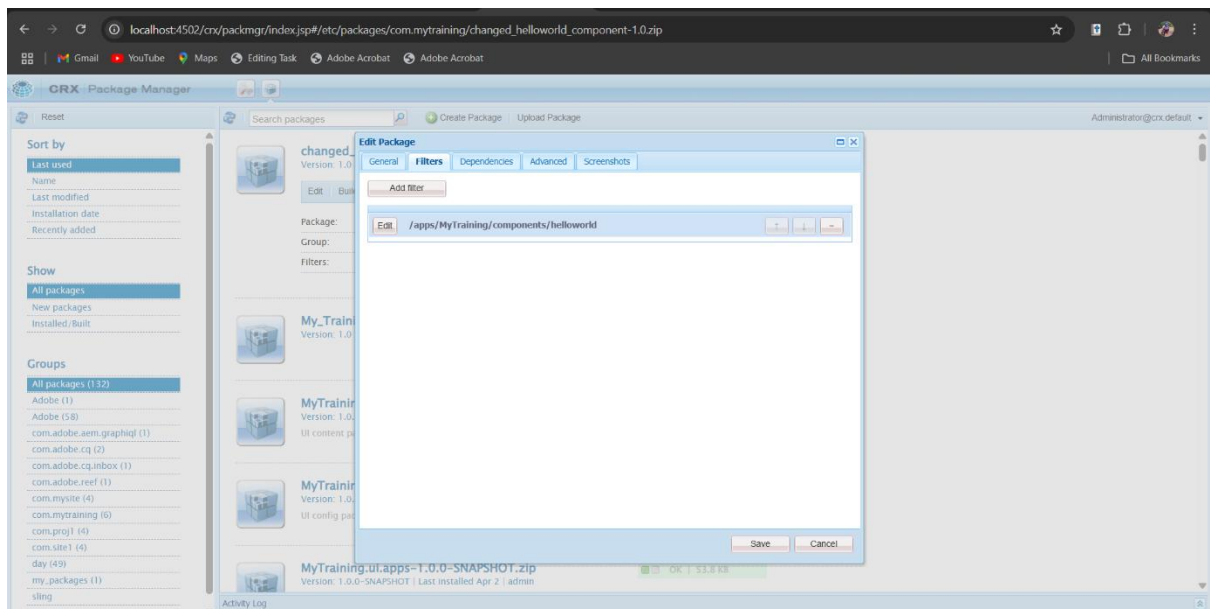
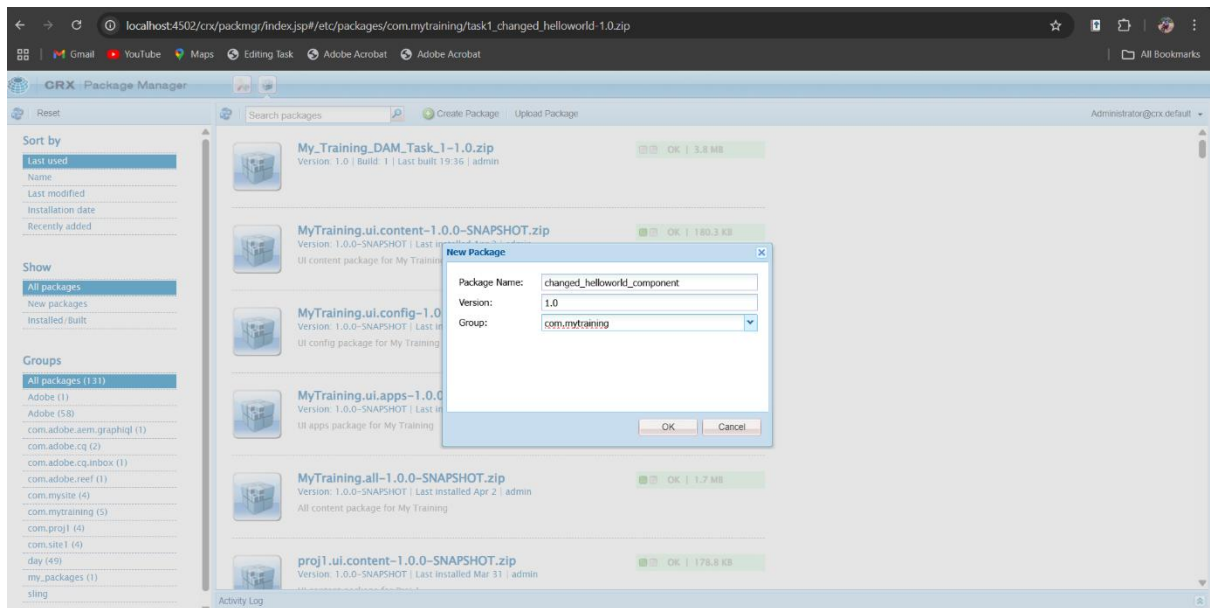
- Build and download the package.

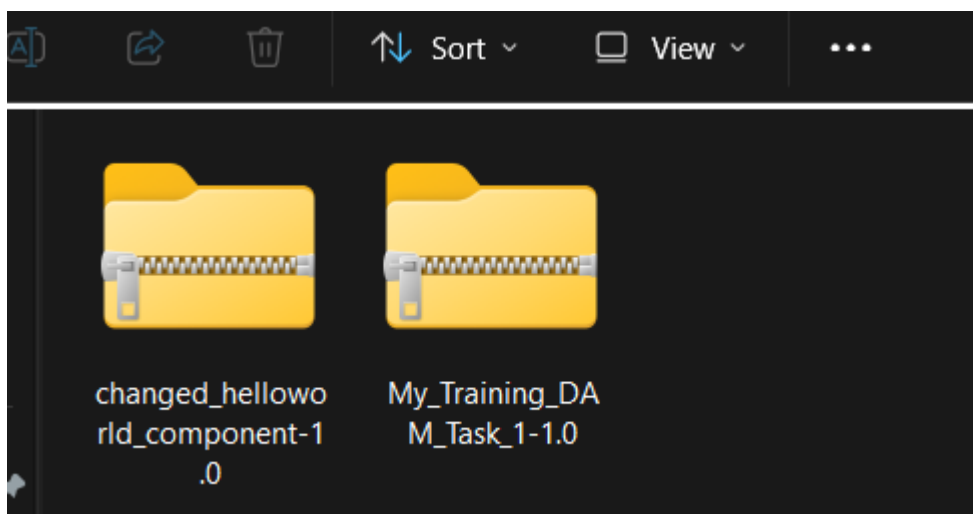
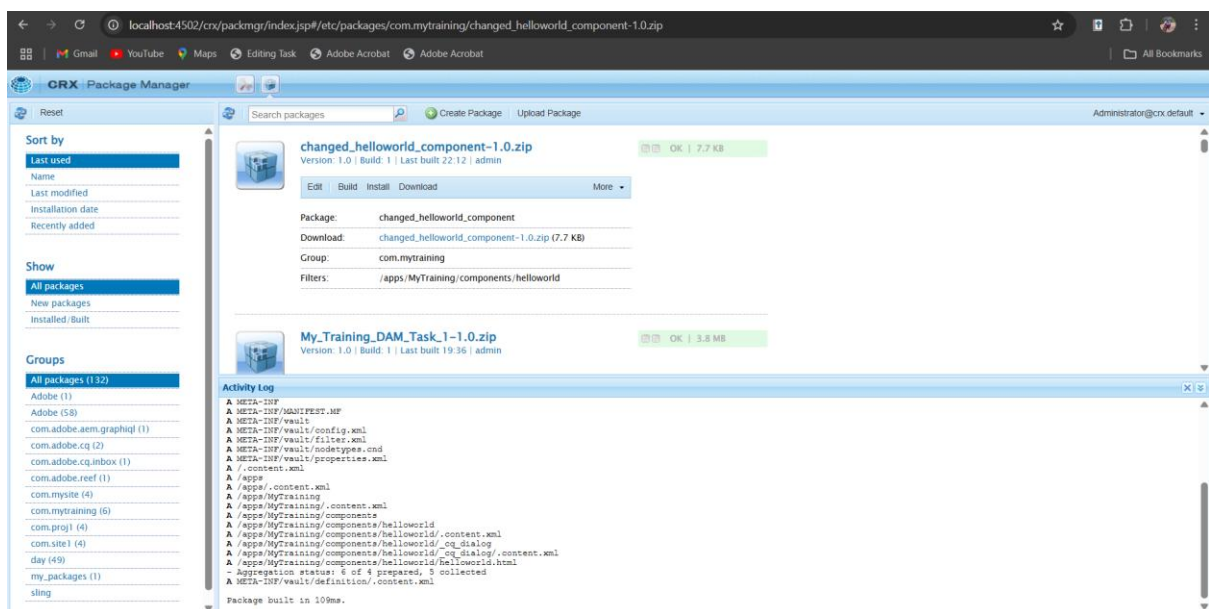
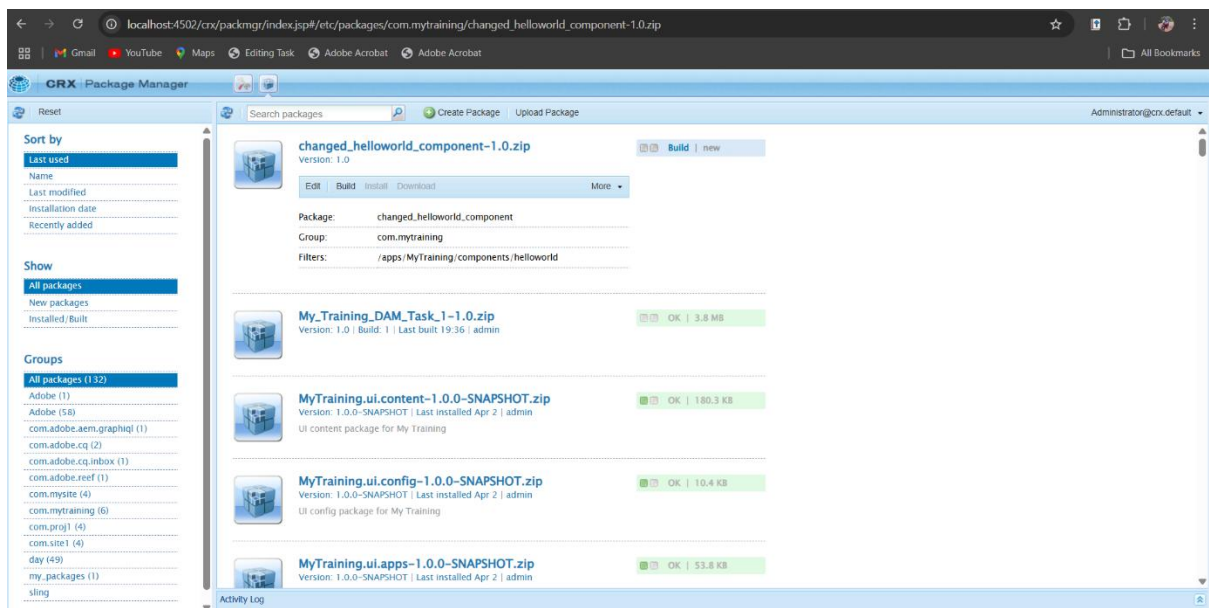




2. Create Package for HelloWorld Component:

- Similarly, create another package for your component, selecting `/apps/myTraining/components/helloworld`.





7. Configure Replication Agent and Publish the Page

To move content from the **author instance** (localhost:4502) to the **publish instance** (localhost:4503), you need to set up a **replication agent**.

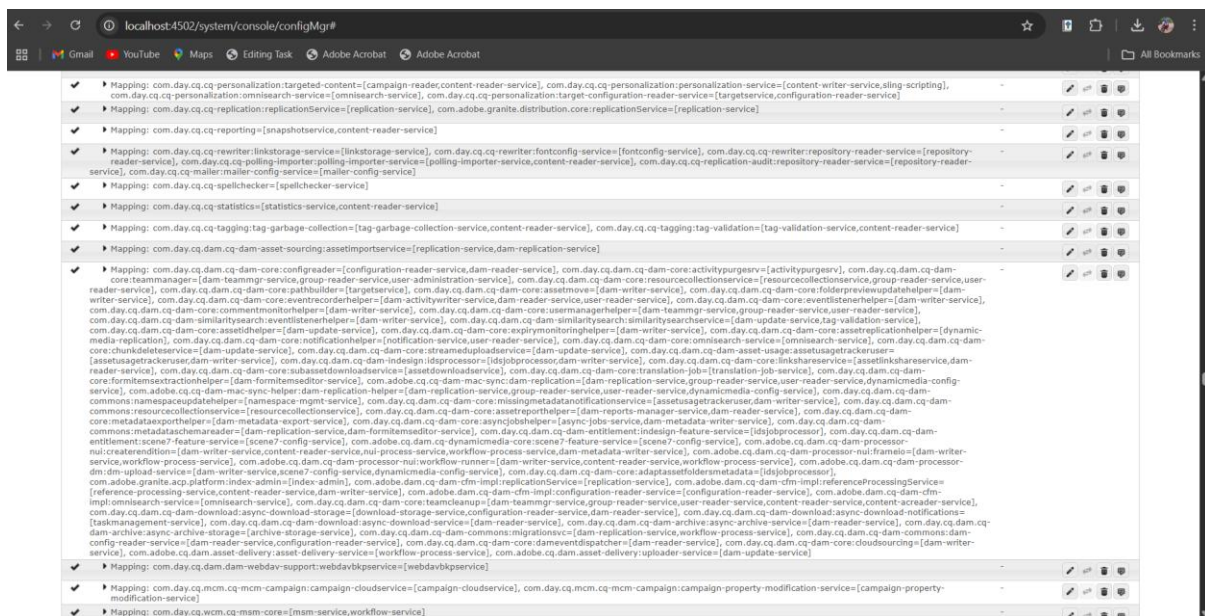
Steps:

1. Configure Replication Agent on Author:

- In AEM, go to **Tools > Deployment > Replication**.
- Configure the **Publish Replication Agent**.
- Set the **Publish URL** to `http://localhost:4503/bin/replicate`.

2. Publish Page:

- On the author instance (<http://localhost:4502>), go to your page and click **Activate** (this triggers the replication process).
- After activation, visit <http://localhost:4503> to view the page on the publish instance.










localhost:4502/system/console/configMgr/com.day.cq.replication.DefaultReplicationAgent

Adobe Experience Manager Web Console Configuration

Main OSGi Sling Status Web Console Log out

Configuration Admin Service is running. Metatype Service is available.

























Name	Bundle	Actions
A scheduled task (com.mysite.core.schedulers.SimpleScheduledTask)	-	  
A scheduled task (com.mytraining.core.schedulers.SimpleScheduledTask)	-	  

com.day.cq.replication.DefaultReplicationAgent 

This form is automatically generated from existing properties because no property descriptors are available for this configuration. This may be caused by the absence of the OSGi Metatype Service or the absence of a Metatype descriptor for this configuration.

Configuration Information	
Persistent Identity (PID)	com.day.cq.replication.DefaultReplicationAgent
Configuration Binding	<input type="text" value="http://localhost:4503/bin/replicate"/>
	<input type="text" value="http://localhost:4503/bin/replicate"/>

Cancel Reset Delete Unbind Save

Name	Bundle	Actions
Adobe AEM Assets Repository API (com.adobe.aem.repoapi.impl.RepoApiConfiguration)	-	  
Adobe AEM Classifications Exporter (com.day.cq.analytics.sitcatalyst.impl.exporter.ClassificationsExporter)	-	  
Adobe AEM Cloud Asset Duplication Detector (com.adobe.cq.assetcompute.impl.assetprocessor.AssetDuplicationDetector)	-	  
✓ Adobe AEM Data Service Download Report Generator (com.day.cq.dam.core.impl.reports.dataservice.DownloadReportGeneratorService)	-	  
Adobe AEM Launch HTTP Client (com.adobe.cq.dtm.reactor.impl.service.WebServiceImpl)	-	  
Adobe AEM Managed Polling Configuration	-	  
com.day.cq.polling.importer.impl.ManagedPollConfigImpl~209a0117-b1a5-4a9a-88be-da9dcea35c1	-	  
com.day.cq.polling.importer.impl.ManagedPollConfigImpl~2c98542b-3679-44d4-a9c9-059d177f01aa	-	  


localhost:4502/sites.html/content/MyTraining/us/en

Create Edit (e) Properties (p) Lock Copy (ctrl+c) Move (m) Quick Publish Manage Publication Restore Delete (backspace) 1 selected (escape) X

en

- Campaigns campaigns
- Outbound Marketing outbound-marketing
- My Site mysite
- My Training MyTraining

us en Task 1 Page Task1



Title	Name	Template	Modified	Modified By	Language	Published
Task 1 Page	Task1	Content Page	3 hours ago	Administrator	English	Not published

