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1. What is MSM, Blueprint, LiveCopy and Rollout?

MSM is a feature in AEM that allows you to manage and synchronize content across multiple sites or languages from a central source.

- You create a Blueprint (the master content).
- Then, you create LiveCopies (the child sites) that inherit content from the Blueprint.
- Changes made to the Blueprint can be rolled out to LiveCopies.

Blueprint :

A Blueprint is the master version of a site or page in AEM. It contains the original content, structure, and design.

Example:

Imagine a company's main website in English as the Blueprint. The French, German, and Spanish versions are LiveCopies.

LiveCopy :

A LiveCopy is a child site or page that inherits content from a Blueprint.

Rollout :

A Rollout is the process of publishing changes from the Blueprint to its LiveCopies.

- You make content changes in the Blueprint.
- Then, you trigger a Rollout to push those changes to all associated LiveCopies.
- You can choose to roll out specific pages or the entire site.

2. What is a Language Copy ?

A Language Copy in Adobe Experience Manager (AEM) is a localized version of a page or site created to support different languages. It allows you to manage multilingual content efficiently by duplicating the structure and content of a source page and then translating it into another language.

Key Features of Language Copy:

- Copies the structure, components, and content from the original page.
- Maintains the same layout and design.
- Supports hreflang tags for SEO, helping search engines display the correct language version based on the user's preference.

3. Create a site using MSM (US EN as Source)

Step 1: Prepare the Source Site (US EN)

- Log in to AEM.
- Navigate to Sites → Your Site (e.g., /content/site/us/en).
- Ensure the site structure and content are complete.
- If needed, publish the US EN site to make it live.

Step 2: Create a Blueprint from the Source Site

- Go to CRXDE Lite (<http://localhost:4502/crx/de>).
- Navigate to the source folder:
/content/site/us/en
- Right-click the folder and select Create → Blueprint.
- Enter details:
 - Name: us-en-blueprint
 - Title: US English Blueprint
- Save and publish the Blueprint.
- Step 3: Create a LiveCopy Site (Target Site)
- Go to Sites → Content → Your Site Folder (e.g., /content/site).
- Click Create → Page.
In the page properties:
- Select “LiveCopy” under the Blueprint section.
- Choose the US English Blueprint as the source.
- Name the site (e.g., /content/site/uk/en for the UK English version).
- Save and publish the LiveCopy.

Step 4: Perform Rollouts from the Blueprint

1. Navigate to the Blueprint folder (/content/site/us/en).
 2. Select the page or content you want to update.
 3. Click "Rollout" to push changes to the LiveCopy (/content/site/uk/en).
- Manual Rollout: Triggered by the user.
 - Automatic Rollout: Happens when changes are published from the Blueprint.

4. Create McDonald’s “About Our Food” Page in AEM :

Step 1: Create the Page in AEM

- Log in to AEM.
- Navigate to Sites → Content → McDonald's Site Folder (e.g., /content/mcdonalds).
- Click Create → Page.

- Choose a template (e.g., "Page Template" or "Simple Template").
- Name the page: "About Our Food"
- Click Create.

Step 2: Add Components to the Page

- Hero Image: A large banner image showcasing McDonald's food.
- Text Component: For introducing McDonald's food philosophy.
- Image Carousel: Showcasing different food items.
- Call-to-Action (CTA) Button: "Learn More" or "See Our Menu."

Step 3: Add Content to Components

Example Content for Each Section:

- **Hero Image:** Upload a high-quality image of McDonald's meals.
- **Text Component:**

```
<h1>About Our Food</h1>

<p>At McDonald's, we're committed to serving quality food made with care. Our ingredients are sourced responsibly, ensuring freshness and sustainability in every bite.</p>
```

Step 4: Review & Publish the Page

1. Save the page.
2. Click Preview to check the layout.
3. If everything looks good, click Publish to make the page live.

5. Set Up The Dispatcher On Local System

What is a Dispatcher?

The Dispatcher is a caching and load balancing tool for Adobe Experience Manager (AEM). It helps improve website performance and scalability by:

1. Caching: Stores static content to reduce load on the AEM server.
2. Load Balancing: Distributes traffic across multiple AEM instances.
3. Security: Controls access to AEM content by filtering requests.

Steps to Set Up the Dispatcher

Install the Dispatcher for IIS from the Adobe website.

- Add the module in the IIS Manager under Modules

Step 2: Configure the Dispatcher

Locate the Dispatcher Configuration File:

- Typically found at C:\Apache24\conf\dispatcher.any

Step 3: Configure Apache to Use Dispatcher

1. Edit the Apache configuration file (httpd.conf):

Step 4: Test Dispatcher Setup

- Access the website via the browser (e.g., <http://www.mysite.com>).
- Check if static content is served faster.
- Validate caching by modifying content in AEM and checking if changes reflect after cache invalidation.

Step 5: Enable Cache Invalidation

Set up cache invalidation rules in AEM.

Use AEM's Cache Invalidation API to clear specific content from the cache.



