

# Adobe

## Exam Questions AD0-E117

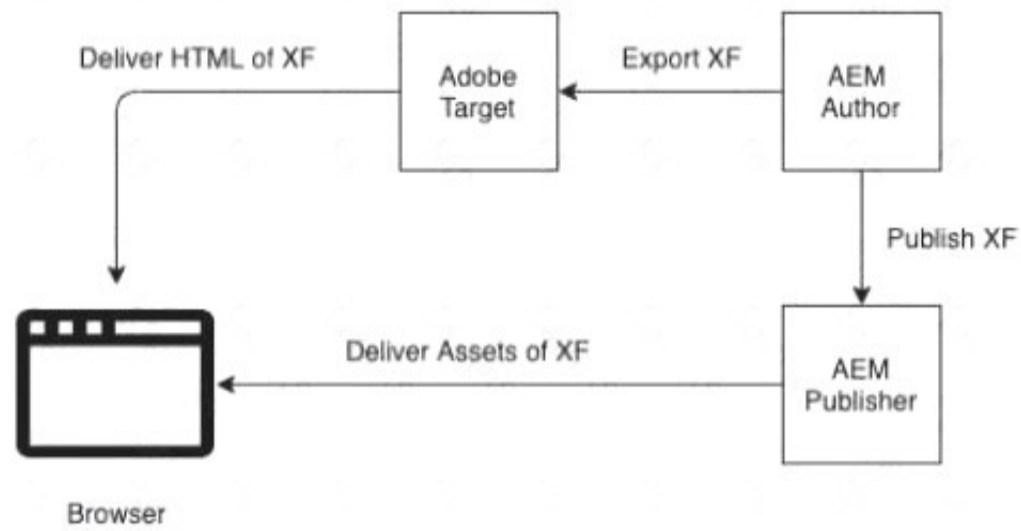
Adobe Experience Manager Architect Master



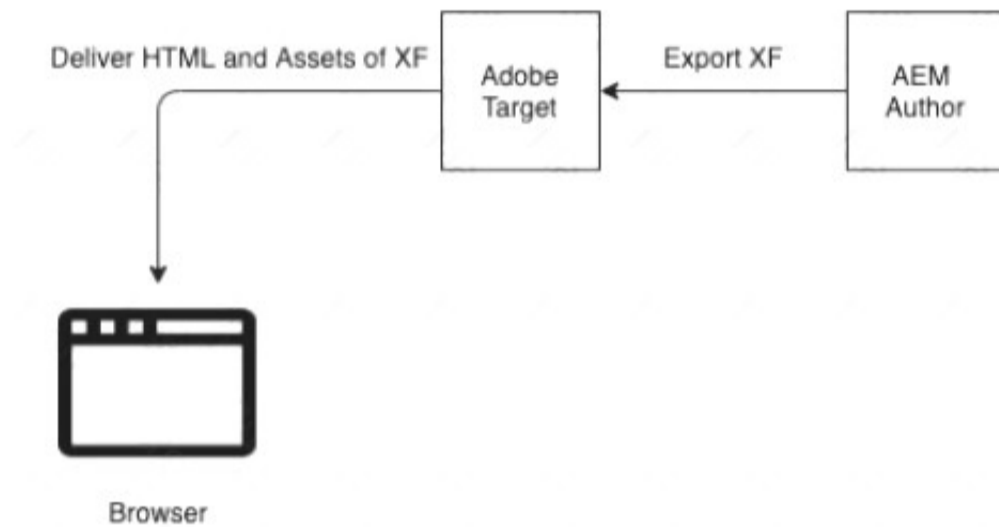
**NEW QUESTION 1**

A financial sector client is using AEM 6.5 on premise. The creative team needs to create the content for the various marketing campaigns that are scheduled. The client wants to use Experience Fragments (XF) to accelerate content creation for marketing purposes.

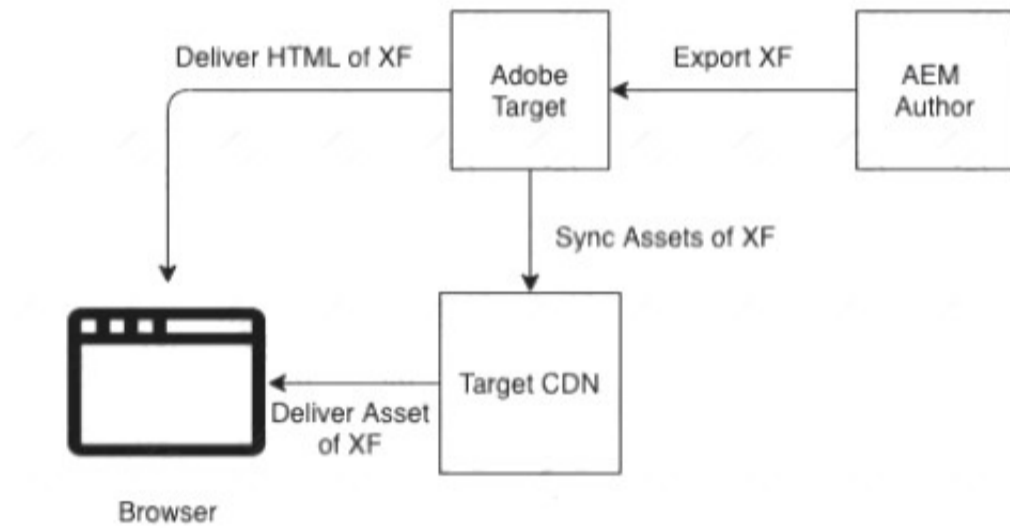
Which Data flow diagram should an Architect use to communicate requirements to the client network team? A)



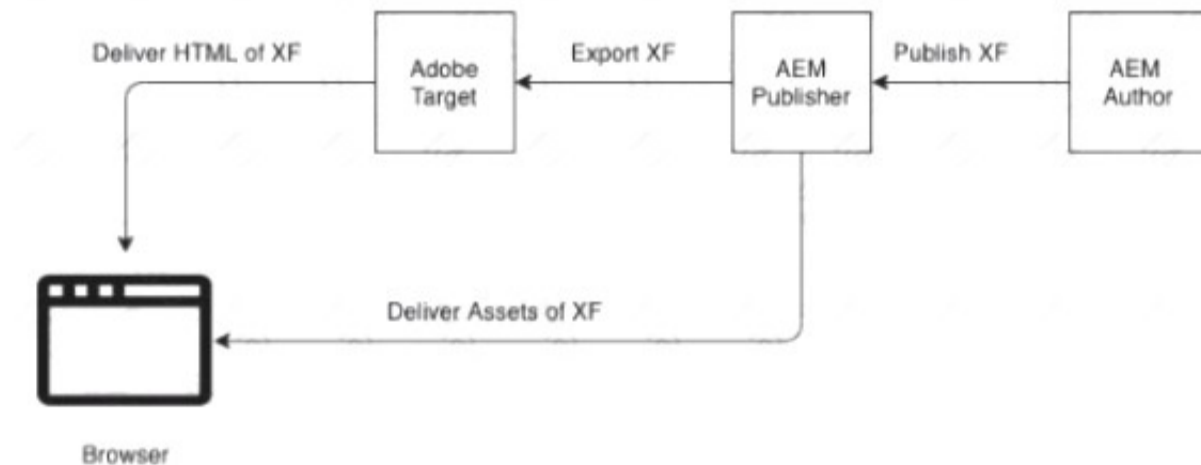
B)



C)



D)



- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: B**

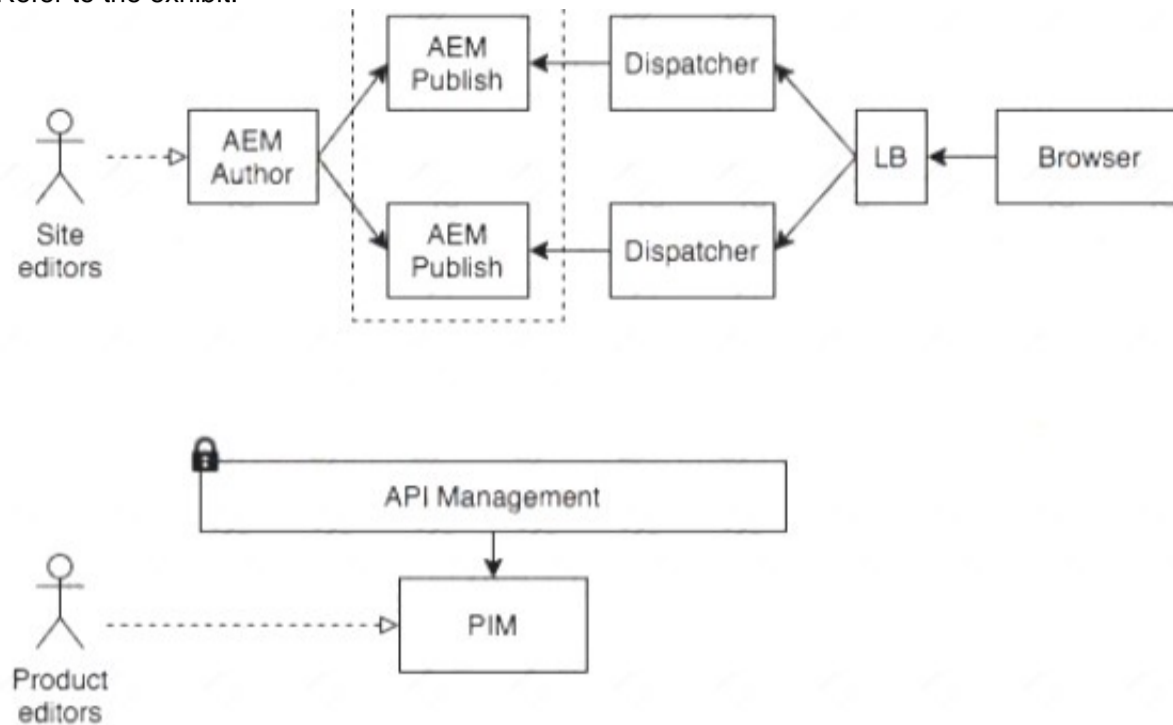
**Explanation:**

A data flow diagram (DFD) is a graphical representation of the flow of data through a system. It shows how data is input, processed, stored, and output in a

system. A DFD can be used to communicate requirements to the client network team by showing them how data flows between different components and entities in the system.

## NEW QUESTION 2

Refer to the exhibit.



A customer with an existing AEM implementation wants to enrich product pages with technical data coming from their PIM system. The PIM system sits behind an API Management solution that publicly exposes the PIM API's as RESTful web services with basic authentication as the security mechanism. Data consistency with the PIM and secure access to the APIs are key elements of the integration.

How should the Architect set up the integration between AEM and the PIM?

- A. Integrate the AEM Publishers directly with the API Management solution
- B. Use a client-side integration with AJAX from the browser to the API Management
- C. Import the technical data into the AEM Author and replicate to Publishers
- D. Convert the technical data to Content Fragments and expose using Content Services

**Answer: A**

### Explanation:

Integrate the AEM Publishers directly with the API Management solution . According to Adobe Experience Manager documentation<sup>1</sup>, a direct integration between AEM and PIM can enable marketers and creative professionals to manage eCommerce-related product data and photography within AEM. A direct integration can also ensure data consistency with the PIM and secure access to the APIs using basic authentication<sup>23</sup>. Option A is the only diagram that shows how AEM Publishers can directly communicate with the API Management solution.

## NEW QUESTION 3

An AEM Sites implementation is migrating from on-premise to AEM as a Cloud Service. Previously, the application was deployed in a single package for both code and access policy nodes. After initial deployment and testing in the new infrastructure, it is reported that user permissions are not working as expected.

What change should the Architect make to address this issue?

- A. Update package metadata to use MergePreserve for handling access policy nodes
- B. Move access policy nodes to a dedicated package and install manually
- C. Refactor access policy nodes to Apache Sling JCR Repoint scripts in the same package
- D. Document permissions and request the Customer Success Engineer to configure

**Answer: C**

### Explanation:

Refactor access policy nodes to Apache Sling JCR Repoint scripts in the same package<sup>1</sup>. According to Adobe Experience Manager documentation<sup>23</sup>, access policy nodes are used to control who can access a policy-protected document. However, they are not supported by AEM as a Cloud Service and need to be refactored using Apache Sling JCR Repoint scripts.

## NEW QUESTION 4

A client is migrating the content from a legacy website to an existing AEM implementation. An Architect evaluates the content of the legacy site and determine-that there are approximately 20.000 pages with a common structure, and a few hundred pages that do not follow a pattern. The client wants to complete the migration as soon as possible.

Which approach should the Architect recommend for the content migration?

- A. Migrate all common pages using the ETL procedure with multiple rounds
- B. Migrate all common pages using the ETL procedure and use manual authoring for the rest
- C. Use Site importer to import the content into AEM
- D. Recreate the entire content manually with a group of Content Authors

**Answer: B**

### Explanation:

"migrating all common pages using the ETL procedure and using manual authoring for the rest can reduce the time and effort required for the content migration".

## NEW QUESTION 5

A user is part of the Employees LDAP group synchronized with AEM. The same user is added to the authors group in AEM. The user is then removed from the Employees group on the LDAP server. What is the result during the next synchronization with AEM?

- A. The user is removed from both the Employees and the AEM authors groups
- B. The user is removed from the authors group but not the Employees group in AEM
- C. The user is removed from the Employees group but not the authors group in AEM
- D. The user is not removed from either the Employees and the AEM authors groups

**Answer:** A

**Explanation:**

"if a user is removed from an LDAP group that has been synchronized with AEM, then that user will be removed from all AEM groups that they are a member of".

**NEW QUESTION 6**

A customer has a website with 10,000 pages and wants to improve performance. Which option should be used?

- A. Specify a wildcard allow rule in the invalidate section
- B. Advise to use URL parameters instead of sling selectors
- C. Decrease .stat file level from the default
- D. Increase .stat file level from the default

**Answer:** D

**Explanation:**

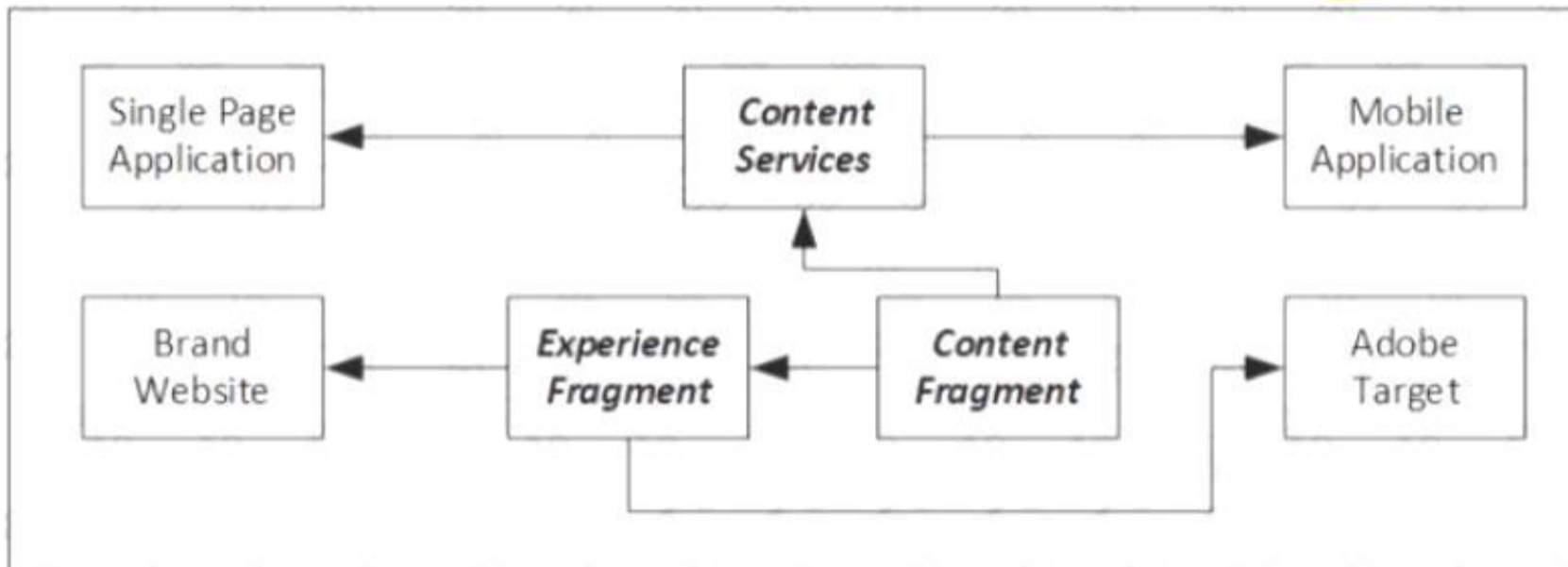
"increasing .stat file level from the default can improve performance by reducing the number of requests to AEM publish instances".

**NEW QUESTION 7**

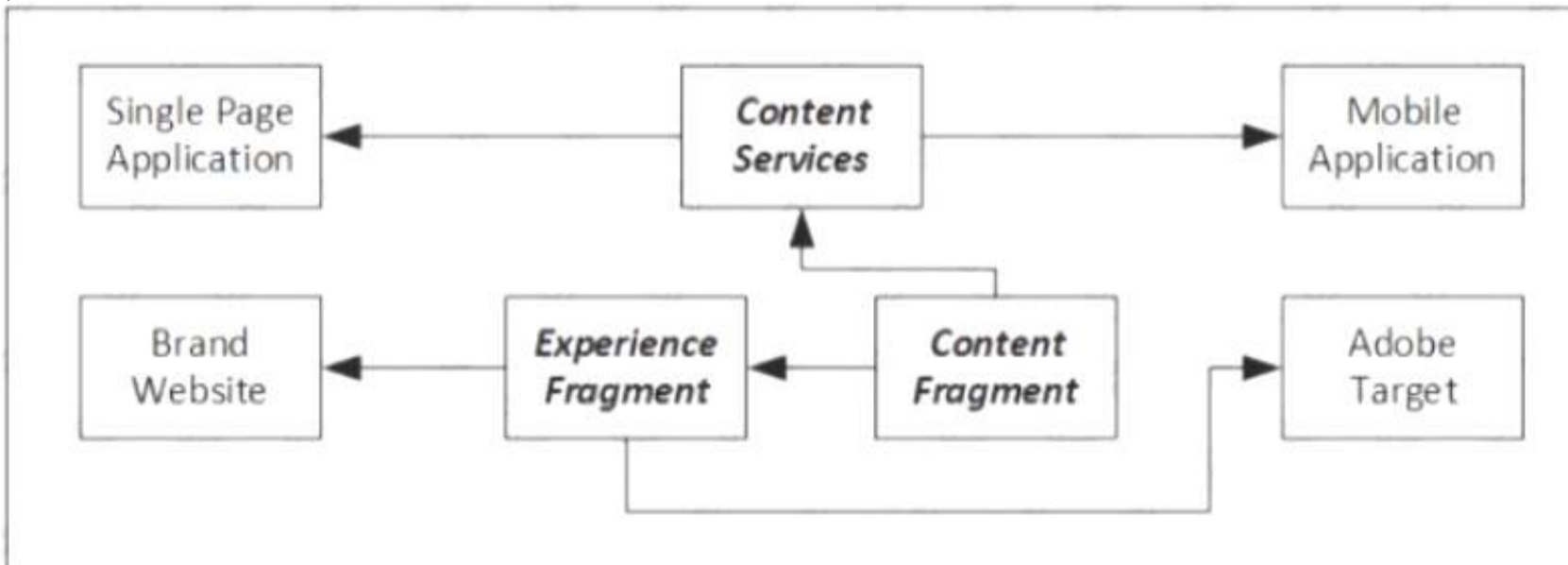
A media company wants to use AEM as content hub for multiple customer touch points:

- Brand-specific marketing websites hosted on AEM Sites
- Single Page Applications using headless content
- Native mobile applications
- Content offers in Adobe Target

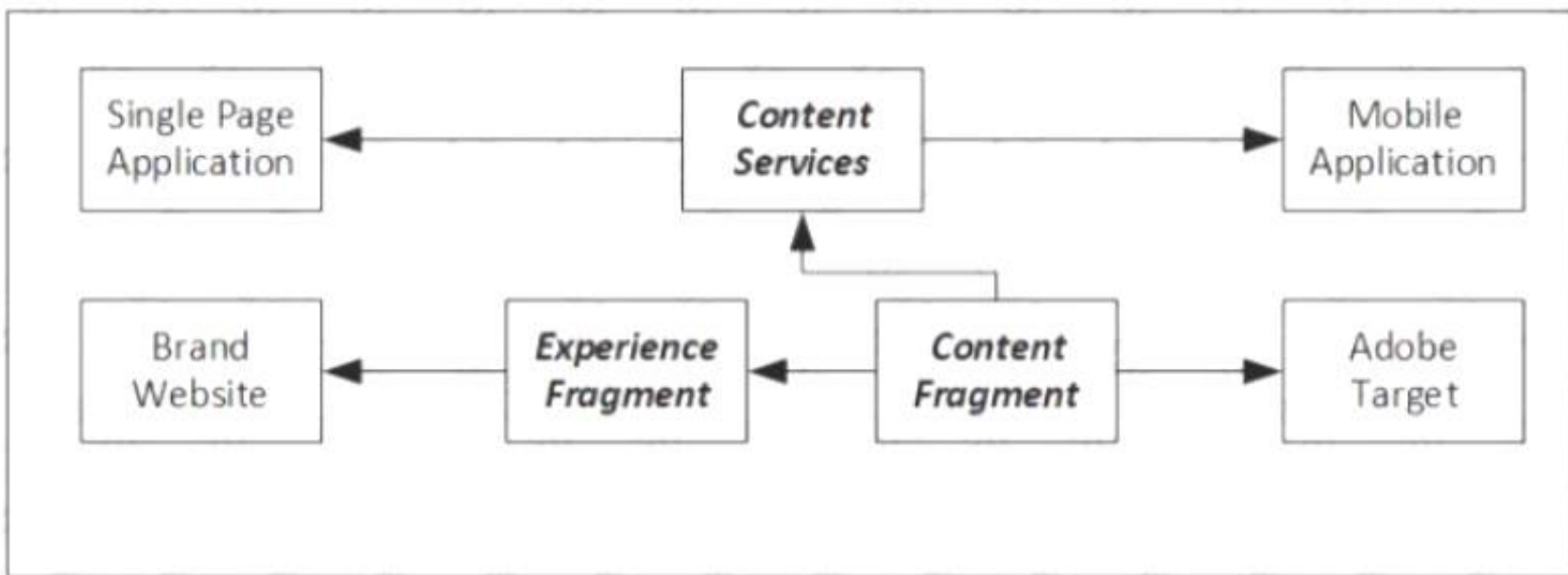
The company wants to manage its content efficiently with its small editor staff. Text should be entered and reviewed only once, then reused for all touch points. How should an Architect incorporate these requirements into a solution that leverages AEM Sites features? A)



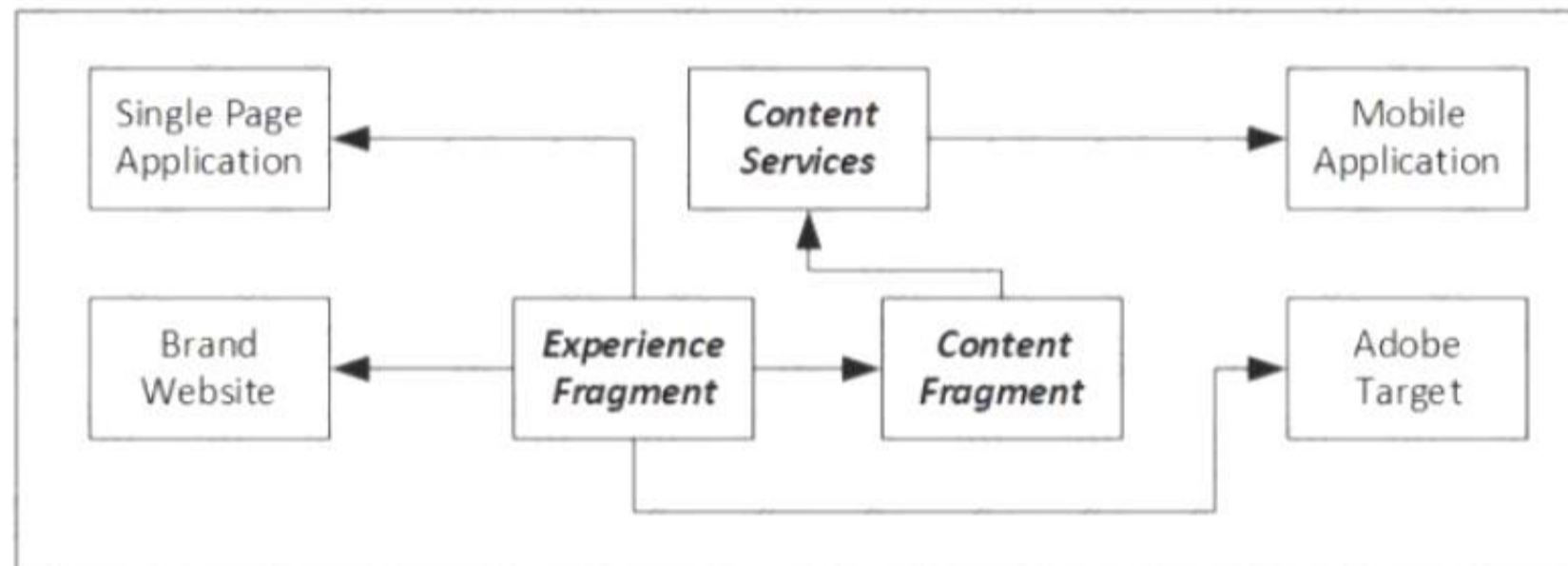
B)



C)



D)



- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: B**

**Explanation:**

AEM content fragments are pure content with structured data that can be used to describe and manage content for multiple channels<sup>123</sup>. Content fragments can be exposed as JSON via AEM Content Services and API Pages for headless delivery<sup>4</sup>. Content fragments can also be used in AEM Sites pages with different layouts and designs using the style system<sup>5</sup>. Option B is the only diagram that shows how content fragments can be created and reused for all touch points using AEM Sites features.

**NEW QUESTION 8**

A client's site does not show the latest page content for some site visitors. The client has two data centers with each configured with a Dispatcher connected to two Publish machines. The site load issue only occurs intermittently for visitors from one of the data centers. Which step should the Architect take to resolve the issue?

- A. Disable caching on all impacted data centers Dispatchers to force the Publish machines to serve the page content
- B. Check the Publish instance(s) attached to the Dispatcher associated to the impacted data center
- C. Check the SSL certificate on the impacted data center's load balance.
- D. Review the log files on the Author instances to determine if there are any template errors

**Answer: B**

**Explanation:**

"checking the Publish instance(s) attached to the Dispatcher associated to the impacted data center can help identify if there are any replication or caching issues that prevent the latest page content from being served"

**NEW QUESTION 9**

In a client's test environment AEM QA Testers from multiple groups and regions are testing and making requests to the AEM application. Due to the sheer number of hosts making connections, an Architect needs a quick and easy way to allow any hosts to make requests to the AEM application. Which approach should the Architect take to meet this requirement for this non-production environment?

- A. Add GET as a Filter Method in the Apache Sling Referrer OSGi Configuration
- B. Use Allowlists instead of Blocklists in the Dispatcher Configuration
- C. Restrict Clients that can flush the cache in the Dispatcher Configuration
- D. Enable Allow Empty in the Apache Sling Referrer OSGi Configuration

**Answer: D**

**Explanation:**

“enabling Allow Empty in the Apache Sling Referrer OSGi Configuration can allow any hosts to make requests to the AEM application without checking the referrer header”.

#### NEW QUESTION 10

A retail customer with an international presence and both in-store and online sales needs a new assets platform. The customer decides to use AEM assets. The customer's sites will continue to run on their proprietary CMS for websites. The customer wants to be able to scale the platform for spikes in user traffic such as on local sales or online marketing campaigns. Under some circumstances, the customer also has a higher load of editors for a certain period of time. Which architecture should an Architect use for this business case?

- A. An AEM Publish instance on Adobe Managed Services with auto scaling
- B. An AEM as a Cloud Service Sites with Dynamic Media
- C. An AEM Assets setup on Adobe Managed Services with Cloud Manager
- D. An AEM as a Cloud Service Assets setup using the combined CDN for delivery

**Answer: D**

#### Explanation:

“using AEM as a Cloud Service Assets setup using the combined CDN for delivery can provide scalability, performance, and security for asset delivery”.

#### NEW QUESTION 10

AEM Site users report that the web content pages render very slowly. An Architect notices that the CPU usages of the AEM Publish instances are spiking and reviews the following entry in the log:

[Frt Nov 27 23:11:00 2019] [I] [pid 16004 (tid 140134145820416)] Current cache hit ratio: 47.94 %

What should the Architect do to increase the dispatcher cache ratio and prevent the AEM Publish CPU usage spikes?

- A. Review and optimize the Dispatcher cache configuration
- B. Add additional AEM instances to the Publish Farm
- C. Create a cron job that will delete the dispatcher cache on a regular basis
- D. Add additional dispatcher servers

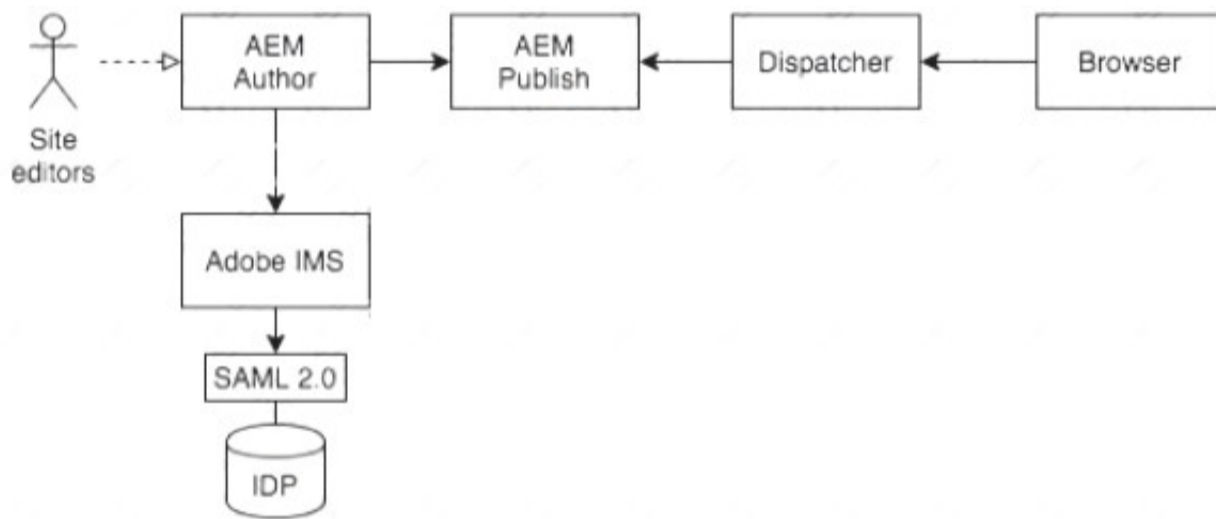
**Answer: A**

#### Explanation:

According to Adobe Experience Manager documentation<sup>5</sup>, dispatcher is a caching and load balancing tool that can be used to improve performance and security of AEM sites. Dispatcher cache configuration can be adjusted using various properties in the dispatcher.any file<sup>6</sup>. Creating a cron job that will delete the dispatcher cache on a regular basis © is not a good idea as it will reduce the cache hit ratio and increase the load on AEM servers.

#### NEW QUESTION 15

Refer to the exhibit.



A customer has SSO on its AEM Author environment using Adobe IMS, which is integrated with the customer's IDP using SAML. The customer plans to roll out a new secured website on AEM where SSO authentication is required for end users. The end user accounts are also managed in the customer's existing IDP. How should the Architect set up the authentication for the website?

- A. Integrate AEM Publisher using SAML with Adobe IMS
- B. Set up CUG and use User Synchronisation from Author to Publisher
- C. Integrate AEM Publisher using SAML directly with the IDP
- D. Integrate AEM Publisher using OAuth with Adobe IMS

**Answer: C**

#### Explanation:

SAML is a common and standard SSO handler that allows a user to access multiple systems after providing authentication credentials once. AEM ships with a SAML 2.0 Authentication Handler that supports signing and encryption of messages, automatic creation of users, and synching groups to existing ones in AEM3. By integrating AEM Publisher using SAML directly with the IDP, the Architect can leverage the existing user accounts and authentication mechanism for the end users of the secured website.

#### NEW QUESTION 16

A client has an existing AEM site using components that proxy AEM WCM Core Components. The site uses simple page authoring without referenced content. The client wants to create a new experience on another marketing channel. The plan is to use as much of the existing page content as possible to avoid refactoring the current content and to maintain consistency across channels. Which AEM capability should an Architect use to meet these requirements?

- A. Experience Fragments
- B. Content Fragments
- C. Assets API
- D. Sling Model Exporter

**Answer:** A

**Explanation:**

According to Adobe Experience Manager documentation, experience fragments are reusable pieces of content that can be used across different channels such as web pages, mobile apps, social media, etc. They allow authors to create consistent experiences without refactoring the existing content or creating duplicate content.

**NEW QUESTION 20**

An AEM Architect is moving existing content from an on-premise AEM to an AEM Cloud Service instance using the Content Transfer Tool. As part of the initial source preparation, the Architect is going to run the offline compaction on the on-premise AEM.

What other two actions should the Architect do to the on-premise AEM before proceeding with the extraction phase? (Choose two.)

- A. Validate that all replication agents are disabled
- B. Verify that wipe mode is enabled
- C. Stop all bundles using the AEM Web Console
- D. Verify that free disk space is at least 1.5x the JCR size
- E. Run datastore consistency check via oak-run

**Answer:** AE

**Explanation:**

According to Adobe Experience Manager documentation<sup>1</sup>, before using the Content Transfer Tool, it is recommended to disable all replication agents on the source AEM instance to prevent any content changes during the migration process. It is also recommended to run a datastore consistency check via oak-run too<sup>2</sup> to ensure that there are no missing or corrupted binaries in the source AEM instance.

**NEW QUESTION 23**

A client's marketing pages are generally slow to load which is causing a significant drop in sales. All other AEM pages load within expected performance guidelines regardless of whether the visitor is being served the desktop or mobile experiences.

The marketing pages typically get slower when multiple external campaigns such as Facebook and AdWords drive traffic to those pages. The page performance tends to dip during high traffic periods. Internal campaign clicks such as those from hero images use similar campaign codes as external campaign traffic.

What should the Architect do to resolve this issue?

- A. Modify the dispatcher.any file's section to ignore campaign-based URL parameters
- B. Set AEM to use GZIP compression instead of the web server's compression
- C. Add a new dispatcher farm to assist with the client's marketing pages
- D. Convert the marketing pages to a responsive design instead of an adaptive design

**Answer:** A

**Explanation:**

Modify the dispatcher.any file's section to ignore campaign-based URL parameters<sup>12</sup>. According to Adobe Experience Manager documentation<sup>2</sup>, dispatcher can be configured to ignore certain URL parameters that do not affect the content of a page. This can improve caching performance and reduce load on AEM servers.

**NEW QUESTION 25**

A client using AEM 6.5 on-premise is experiencing an unsustainable repository growth of 100Gb a day. After investigation, an Architect finds out that the DAM is causing this issue. Each image uploaded to the DAM triggers the creation of approximately 100 renditions, necessary by business to consume in different channels and systems. The client also complains about stale content reported by site visitors happening randomly in pages where article-related components are present. How should the Architect address these issues?

- A. Leverage AEM Adaptive Image Servlet, cache image variations in Dispatcher, and reimplement article-related components to use AJAX to load the content
- B. Split WCM and DAM in separate instances, set up Connected Assets, and re-implement article-related components to use AJAX to load the content
- C. Leverage AEM Adaptive Image Servlet cache image variations in Dispatcher, and implement a cacheTTL in Dispatcher
- D. Split WCM and DAM in separate instances, set up Connected Assets, and implement a workflow to purge all pages affected by an article change in Dispatcher

**Answer:** A

**Explanation:**

According to Adobe Experience Manager documentatio<sup>1n</sup>, the Adaptive Image Servlet is a feature that automatically selects the most appropriate rendition of an image asset based on the size of the container in which it is displayed. This can reduce the number of renditions needed and improve performance and scalability of AEM DAM. Caching image variations in Dispatcher can also help reduce repository growth and network traffic. Reimplementing article-related components to use AJAX can prevent stale content issues by dynamically loading fresh content from AEM without refreshing the whole page.

**NEW QUESTION 26**

A client designs a new experience for one of their brand sites with the following parameters:

- The new experience should behave like a desktop application
- There is a lot of dynamic content in the app
- SEO and initial page load are a top concern for the client
- The client's marketing team needs to be able to author the content with a WYSIWYG editor Which approach should the Architect use to meet these requirements?

- A. Use AEM as a headless CMS
- B. Use the traditional server side components on the website
- C. Use the SPA Editor SDK with Server Side Rendering
- D. Create a set of API-driven components

**Answer:** C

**Explanation:**

“the SPA Editor SDK with Server Side Rendering allows for creating dynamic web applications that behave like desktop applications while also supporting SEO and initial page load performance. It also enables marketing teams to author content with a WYSIWYG editor”.  
<https://learning.adobe.com/content/dam/adls/certification/samples/en/AD0-E104%20Adobe%20Experience%20>

**NEW QUESTION 30**

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