

Adobe

Exam Questions AD0-E117

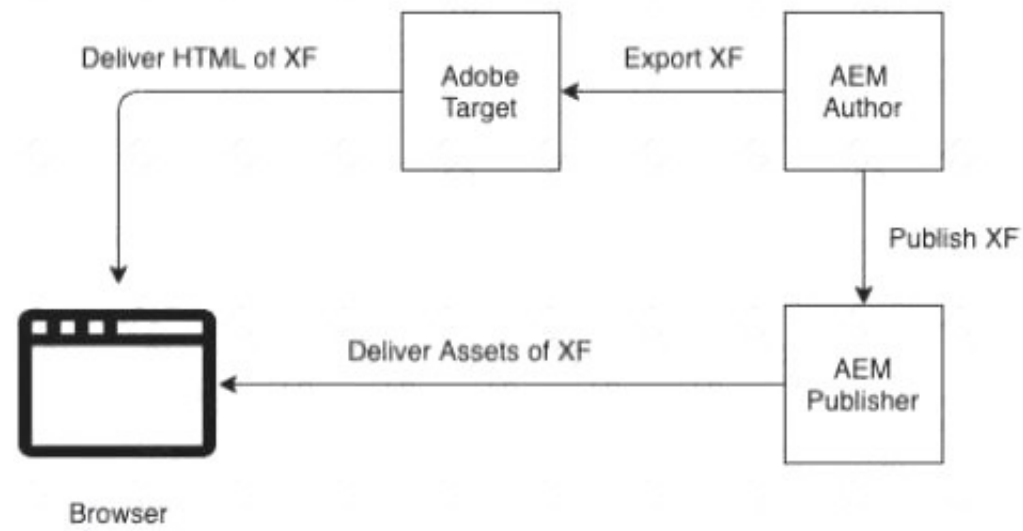
Adobe Experience Manager Architect Master



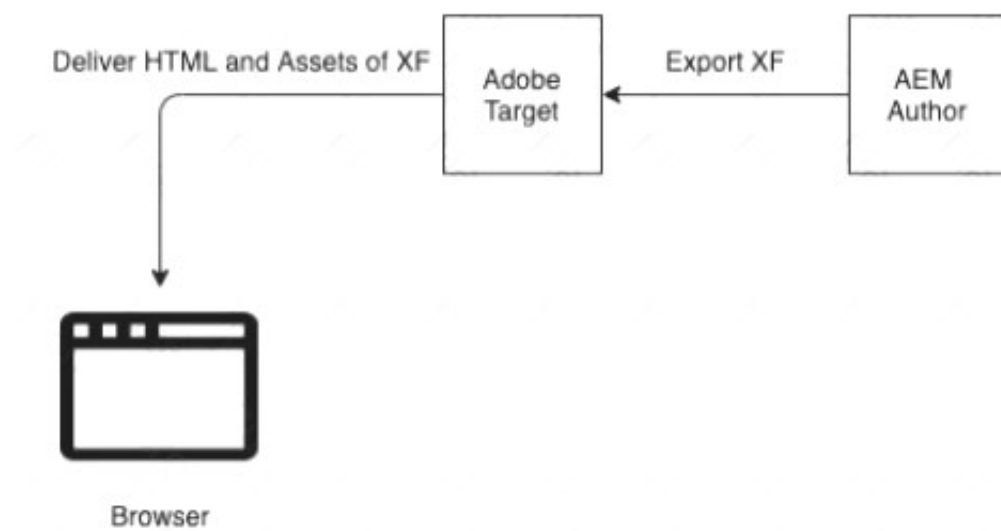
NEW QUESTION 1

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.

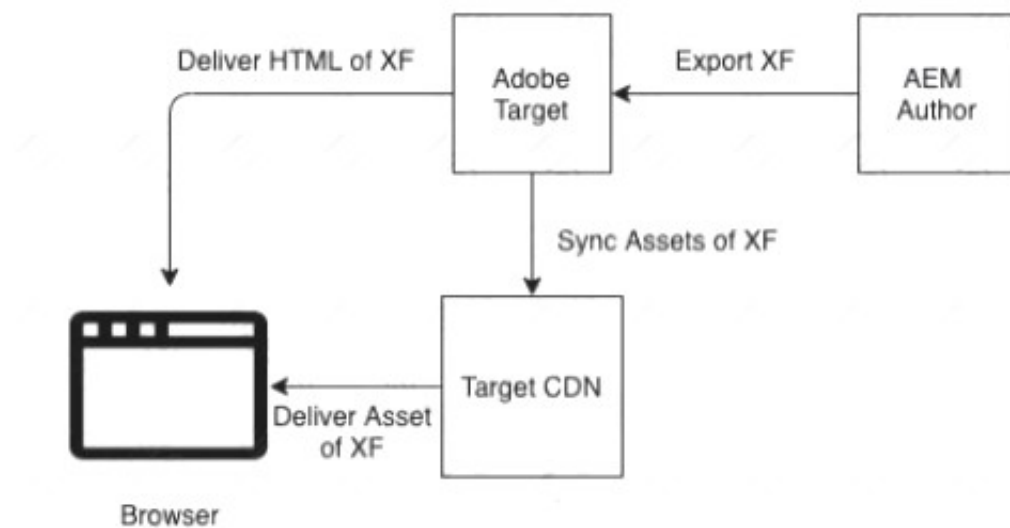
Which Data flow diagram should an Architect use to communicate requirements to the client network team? A)



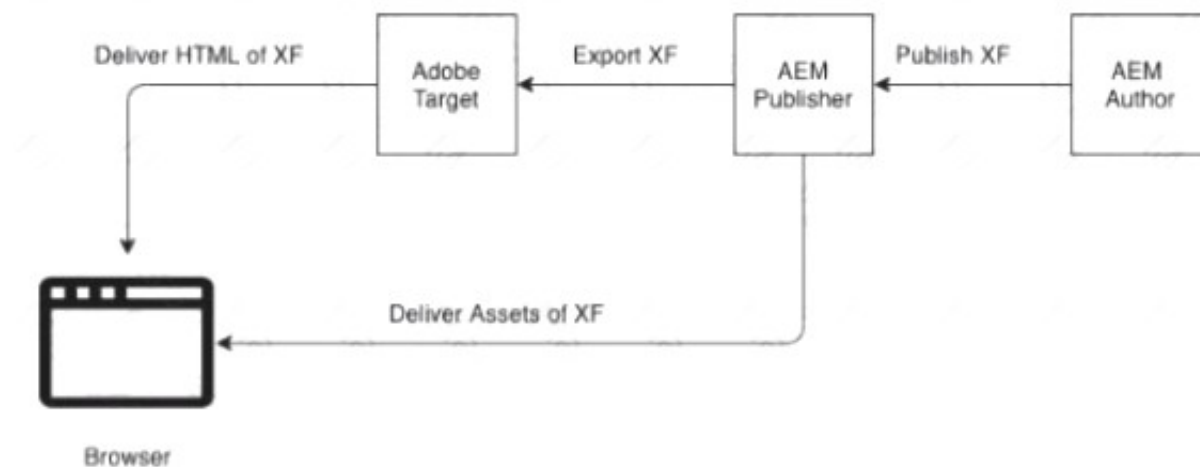
B)



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

A customer wants to migrate their AEM environment from an on-premise infrastructure to a public cloud to improve performance. The customer currently hosts many assets (images, videos, documents) in the DAM. Approximately 10 business users frequently upload new assets and update existing assets. Editors then use these assets on the sites.

What should an Architect do as part of this migration?

- A. Move to a shared datastore and enable binary less replication
- B. Set up Connected Assets to share the DAM assets in the sites
- C. Set up a horizontally scalable AEM environment on MongoDB
- D. Run online revision cleanup before moving to the new storage format

Answer: D

Explanation:

“running online revision cleanup before moving to the new storage format can reduce the size of the repository and improve performance”.

NEW QUESTION 3

An Architect is performing infrastructure and capacity planning for Author servers for a customer using AEM 6.5. Which two factors would lead the Architect to pick a multi-author instance architecture setup? (Choose two.)

- A. Website Traffic handled by servers
- B. Fail safeness of the servers
- C. Number of Parallel Authors
- D. Cache Efficiency on the dispatcher
- E. Types of actions performed by Authors

Answer: BC

Explanation:

“a multi-author instance architecture setup provides failover and load balancing for author servers. It also allows for scaling up the number of parallel authors who can work on the same content without affecting performance”.

NEW QUESTION 4

A media company surveys the end users of their AEM Sites website. The survey identifies that it is difficult to locate content on the site due to lack of relevancy and slow performance when navigating through the large volume of content.

To address both issues, the business team suggests integrating an innovative taxonomy product to the company s AEM implementation. The product is new on the market and the development team has no experience with the technology.

Which two steps should an Architect recommend to evaluate this new feature? (Choose two.)

- A. Develop the integration as proof of concept with sample content
- B. Test usability of the feature with selected business users
- C. Develop the integration and deploy it to 50% of the production AEM instances
- D. Develop the integration as proof of concept with full production content
- E. Test usability of the feature with selected end users

Answer: AE

Explanation:

“developing a proof of concept with sample content allows for testing the feasibility and performance of the integration without affecting production data. Testing usability with selected end users allows for validating the relevancy and user satisfaction of the feature”.

NEW QUESTION 5

A client is in the discovery process for building a React native app, which is a single codebase that runs natively on iOS and Android. The goal is to reduce development costs. The client wants to reduce content creation costs in the new react Native app by reusing as much of the marketing content already publish in their AEM instance.

What should the Architect recommend to meet this requirement?

- A. Experience Fragments
- B. OSGi Bundles
- C. Sling Resource Resolution
- D. Content Fragments

Answer: A

Explanation:

“Experience Fragments are reusable pieces of content that can be delivered to any channel, including React native apps. They allow for reusing marketing content already published in AEM”.

NEW QUESTION 6

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 7

A client recently purchased the Smart Content Service and is considering using the Enhanced Smart Tagging feature. As part of the process, the client recently created a new tagging taxonomy that has not been applied to any assets yet. An Architect needs to demonstrate the feature on a subset of the client's assets before using on all assets.

How should the Architect proceed?

- A. Add sample assets to a new folder, tag assets in folder, then enable Smart Tagging via the folder properties
- B. Add sample assets to a new folder, tag assets in folder, then run the Smart Tags Training workflow
- C. Enable Smart Tagging via the folder properties for a single folder of assets, then run the Smart Tags Training workflow
- D. Enable Smart Tagging via the folder properties for a single folder of assets

Answer: C

Explanation:

“to use Enhanced Smart Tagging, the Architect needs to enable Smart Tagging via the folder properties for a single folder of assets, then run the Smart Tags Training workflow to train the model with the new tagging taxonomy”.

NEW QUESTION 8

During the implementation of a public-facing website based on AEM as a Cloud Service, the customer raises an additional requirement to have a commenting functionality for end users implemented on the pages.

What should the Architect do to make the design a future proof solution?

- A. Save comments in JCR and leverage Sling Distribution to synchronize comments between publishers
- B. Integrate a third-party solution to store comments externally
- C. Use MongoDB as provided with AEM as a Cloud Service to store the comments
- D. Save comments in JCR and leverage reverse replication to synchronize comments via author

Answer: B

Explanation:

“integrating a third-party solution to store comments externally can provide a future proof solution that does not depend on AEM as a Cloud Service limitations or changes”.

NEW QUESTION 9

A customer's photo gallery site uses query parameters to filter photo search results. The site experiences high AEM Publish server load when users filter photos on the site. The customer would like to identify the cause of this issue.

What should the Architect investigate first?

- A. ignoreUrlParams configuration in dispatcher.any
- B. Dispatcher load balancing configuration
- C. Cache-Control Headers in dispatcher.any
- D. Volume of assets being loaded at a time

Answer: C

Explanation:

“Cache-Control Headers in dispatcher.any control how long the dispatcher caches responses from the publish server. If these headers are not configured properly, the dispatcher may cache stale or dynamic content, resulting in high server load and poor performance”.

NEW QUESTION 10

During an optimization session, a client using AEM 6.5 mentions that they face challenges with their AEM Author setup. The client has significant repository growth and can see an increased amount of TAR files in the segmentstore on disk. When editors are working, they see that workflows take up more time. The purging of workflows works as expected. Which two optimizations should an Architect suggest to took into and further investigate? (Choose two.)

- A. Leverage workflow offloading for all workflows
- B. Configure the Maximum Parallel Jobs
- C. Increase the maxFileSize of the TAR segmentstore
- D. Leverage Transient Workflows where possible
- E. Execute an offline tar compaction twice a day

Answer: AD

Explanation:

Leverage workflow offloading for all workflows and Leverage Transient Workflows where possible¹²³

. According to Adobe Experience Manager documentatio²ⁿ, workflow offloading is a technique that distributes processing tasks among AEM instances in a topology. This can improve performance and scalability of AEM author instances by using dedicated instances for executing workflows. Transient workflows are workflows that do not persist any data or history and are automatically purged after completion³. This can reduce repository growth and improve workflow efficiency.

NEW QUESTION 10

A customer has a requirement to allow authors to access AEM with single sign-on. To achieve this an Architect needs to integrate AEM with the customer's identity management system.

Which two actions could an Architect take to meet this requirement? (Choose two.)

- A. Implement the generic SSO Authentication Handler interface
- B. Configure the Sling Authentication Requirements for the OSGi HTTP Service
- C. Configure the SAML Authentication Handler
- D. Configure the generic SSO Authentication Handler
- E. Implement a custom JAAS Login Module

Answer: AD

Explanation:

"implementing and configuring the generic SSO Authentication Handler interface can enable single sign-on integration with an identity management system".

NEW QUESTION 12

A large digital agency has 10 TB of assets in their DAM where renditions for each Asset must be created without affecting performance for the authors. Which capability should the Architect recommend to meet the requirements?

- A. Reduce the number of AEM Asset versions
- B. Create AEM multi-threaded workflow
- C. Use AEM Asset Offloading
- D. Update dispatcher configuration to cache Assets

Answer: C

Explanation:

"AEM Asset Offloading allows for delegating asset processing tasks such as rendition generation to a separate AEM instance or service. This reduces the load on the author servers and improves performance for authors".

NEW QUESTION 15

A company is implementing a new e-commerce site that is expected to get seasonal and flash-sale induced traffic peaks from all over the world. It is projected that a minute of downtime could cause excessive lost revenue. The company management wants to keep resource utilization to optimal levels without experiencing degradation to avoid introducing bugs in the system.

The Architect needs to choose between AEM 6.5 and AEM as Cloud Service.

What are the two most critical non-functional requirements the Architect must consider? (Choose two.)

- A. Scalability
- B. Availability
- C. Reliability
- D. Maintainability
- E. Usability

Answer: AB

Explanation:

According to Adobe Experience Manager documentation³, AEM as Cloud Service provides scalable and resilient architecture that can handle traffic peaks and ensure high availability. AEM 6.5 requires manual scaling and backup strategies to achieve the same level of performance and reliability.

NEW QUESTION 17

AEM as a cloud service introduces major changes in the architecture by using containers. Which key architectural change was necessary to allow this to occur?

- A. Using Adobe 10 for asset ingestion and processing, storing it on a separate blob and providing AEM with metadata
- B. Using sling content distribution as the replication mechanism
- C. Using MongoDB for Author environment
- D. Isolating /app and /libs from the content, configurations and state mgmt.

Answer: D

Explanation:

"isolating /app and /libs from the content, configurations and state management allows AEM as a Cloud Service to use containers for scalability and resilience".

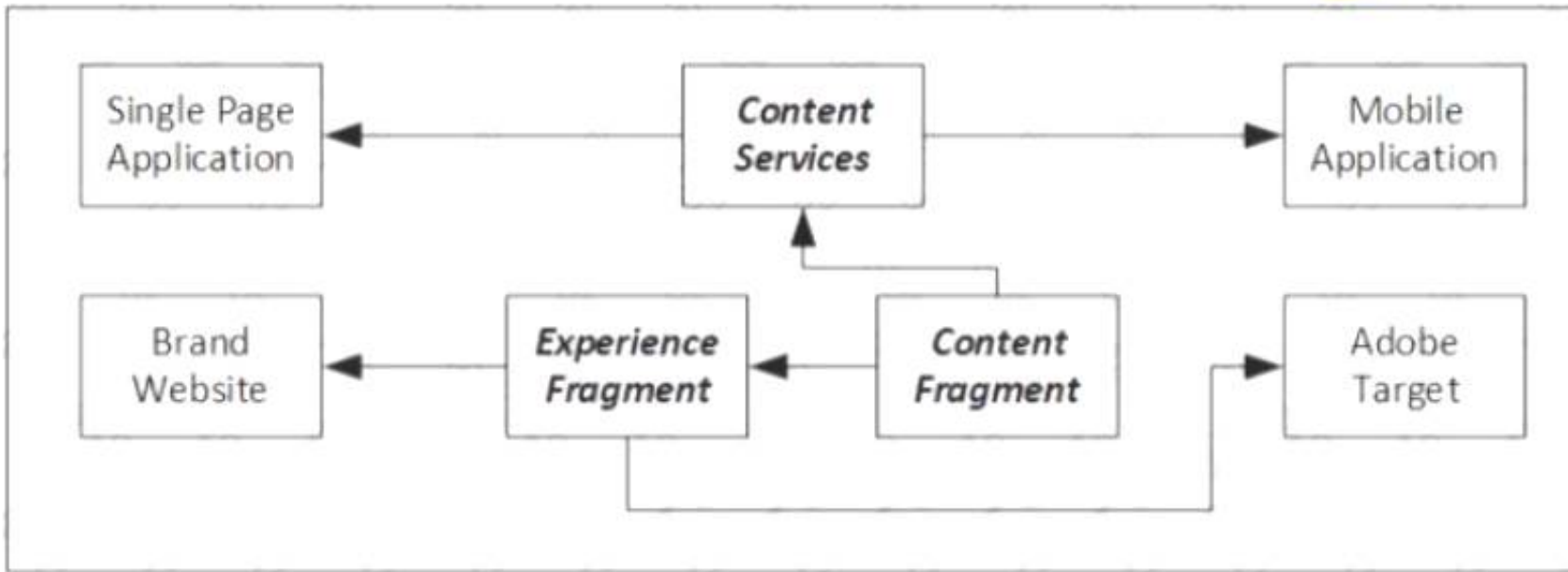
NEW QUESTION 20

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

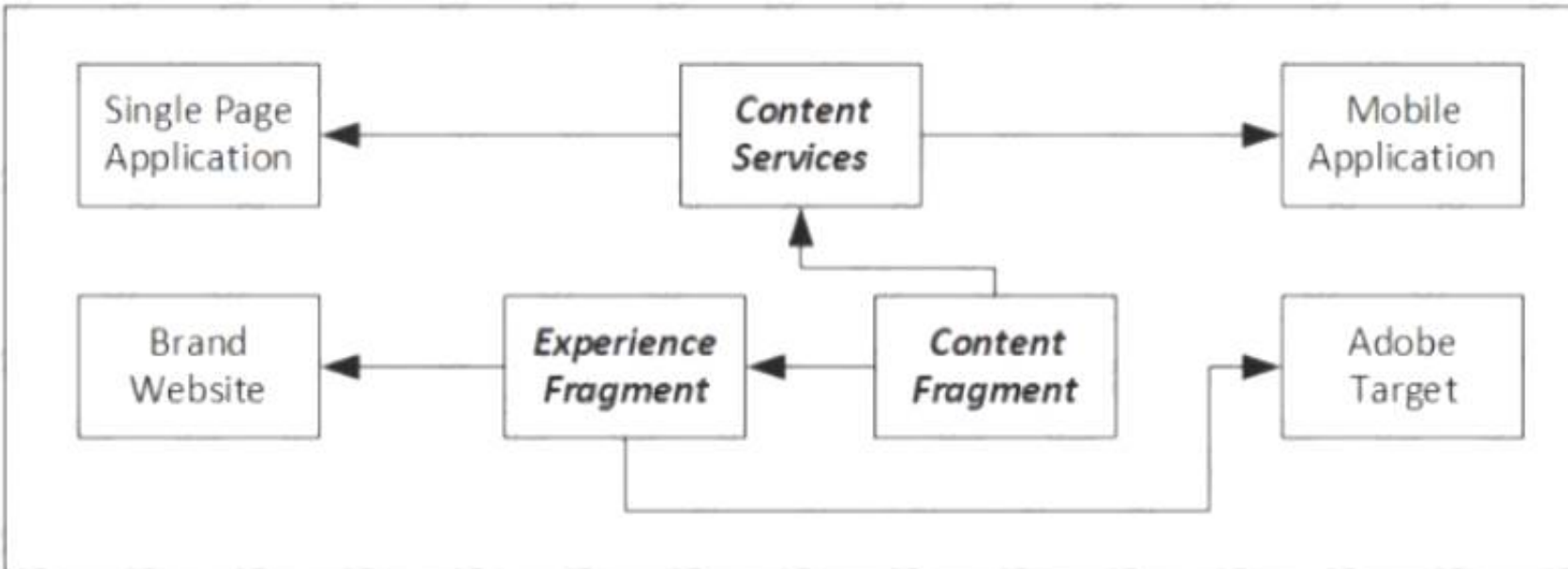
- Brand-specific marketing websites hosted on AEM Sites
- Single Page Applications using headless content
- Native mobile applications
- Content offers in Adobe Target

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.

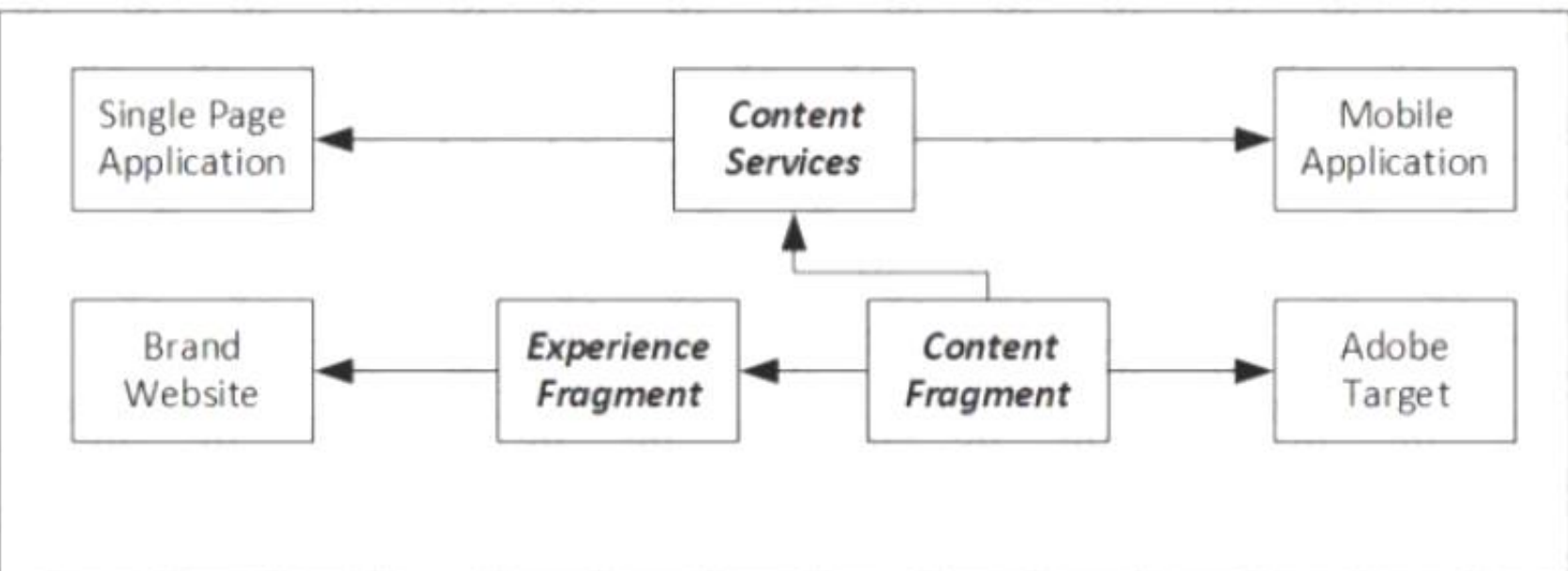
How should an Architect incorporate these requirements into a solution that leverages AEM Sites features? A)



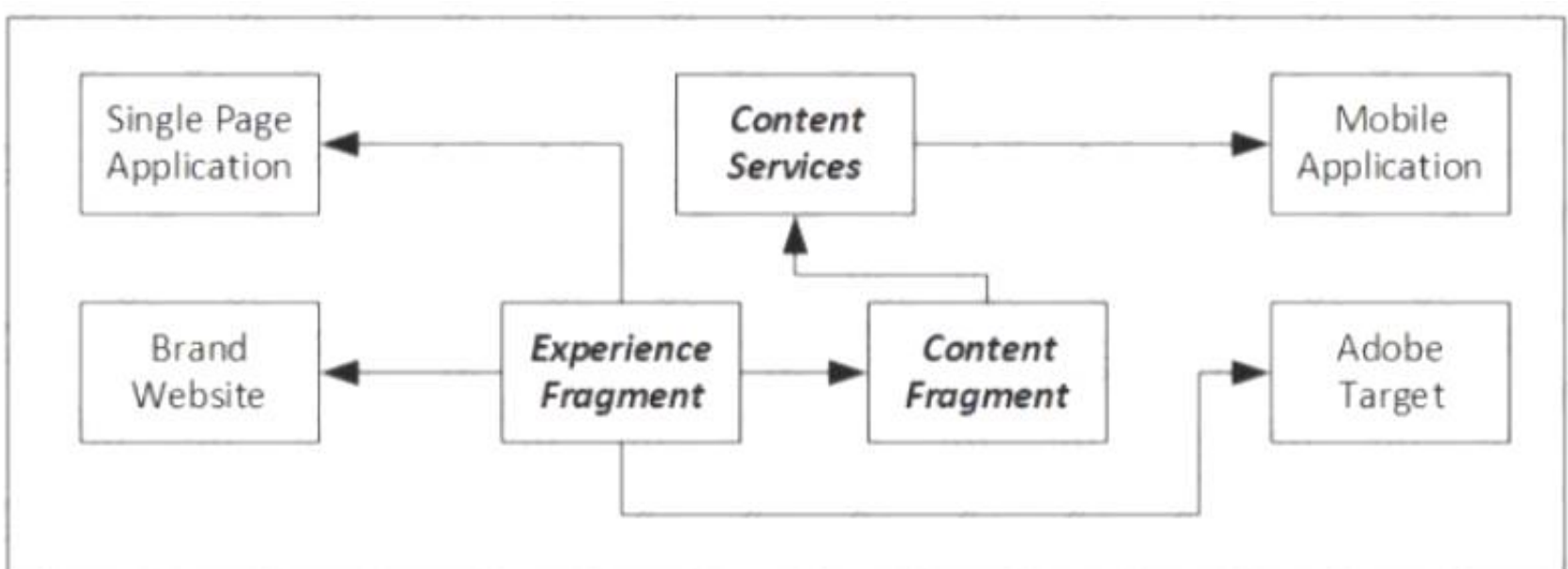
B)



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 channels¹²³. Content fragments can be exposed as JSON via AEM Content Services and API Pages for headless delivery⁴. Content fragments can also be used in AEM Sites pages with different layouts and designs using the style system⁵. 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 24

During development the AEM Publisher server keeps crashing randomly. The deployment included a new static FAQ component that was used in the websites Contact Us page. An Architect investigates to find the root cause for the random failures, and notices the following parameters:

- The server slows down when requests are sent to the Contact us page
- The number of requests to the page were very few
- Heap dump shows a large number of instances of the FAQ component What is likely causing this issue?

- A. The page was not cached in the Dispatcher.
- B. The component triggers a traversal query.
- C. The JVM garbage collection is not running.
- D. The component has a cyclic dependency to itself

Answer: D

Explanation:

According to Adobe Experience Manager documentation³, a cyclic dependency occurs when a component includes itself either directly or indirectly through another component. This can cause an infinite loop of rendering and consume excessive memory resources, leading to server crashes. To avoid this issue, components should not include themselves or other components that include them

NEW QUESTION 25

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 27

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 30

A client wants to change how they publish their content. Refer to the following client business requirements:

- The client has a seasonal business that has significant content changes across their site that need to be rolled out at once based on the season change over date.
- The content authors need to be able to work one season in advance of publish dates to ensure that all changes can be completed on time.
- The content authors need a way to indicate that all the seasonal changes are ready. If the content changes are not completed, then the pages should not get published.
- The content authors need the ability to modify the current live pages without rolling back changes for a future content rollout.

What approach should the Architect recommend?

- A. Use the Versioning feature when editing a page to toggle and publish changes when ready.
- B. Use the Manage Publication with scheduling value set to the season change over date when changes are completed.
- C. Create a Project inside of AEM for each new season and create a task for notifying that changes are completed.
- D. Use Launches inside of AEM for each new season and use the production ready flag to show changes are completed.

Answer: D

Explanation:

“using Launches inside of AEM for each new season can allow content authors to work on future content changes without affecting the current live pages and use the production ready flag to indicate when changes are completed”.

NEW QUESTION 33

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 documentation⁵, 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 file⁶. 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 34

A customer is migrating from their On-Premises AEM 6.4 instances to AEM as a Cloud Service. Next to the required code refactoring, a content migration of approximately 100,000 pages needs to be performed. The customer wants the content freeze period to be limited so that editors can continue to do content actions as long as possible.

Which two recommendations should the Architect make for the migration of the content pages? (Choose two.)

- A. Migrate the content using Lazy Content Migration approach
- B. Upscale the memory of the On-Premise AEM instance
- C. Migrate content deltas using a query-based packaging tool
- D. Ensure sufficient storage space on the On-Premise AEM instance
- E. Migrate the content using the Content Transfer Tool

Answer: AE

Explanation:

“migrating the content using Lazy Content Migration approach can reduce the content freeze period by only migrating referenced content” and “migrating the content using the Content Transfer Tool can automate and validate the migration process”.

NEW QUESTION 38

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 43

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 documentation¹, 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 too²l to ensure that there are no missing or corrupted binaries in the source AEM instance.

NEW QUESTION 47

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”.

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NEW QUESTION 52

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