

# Adobe

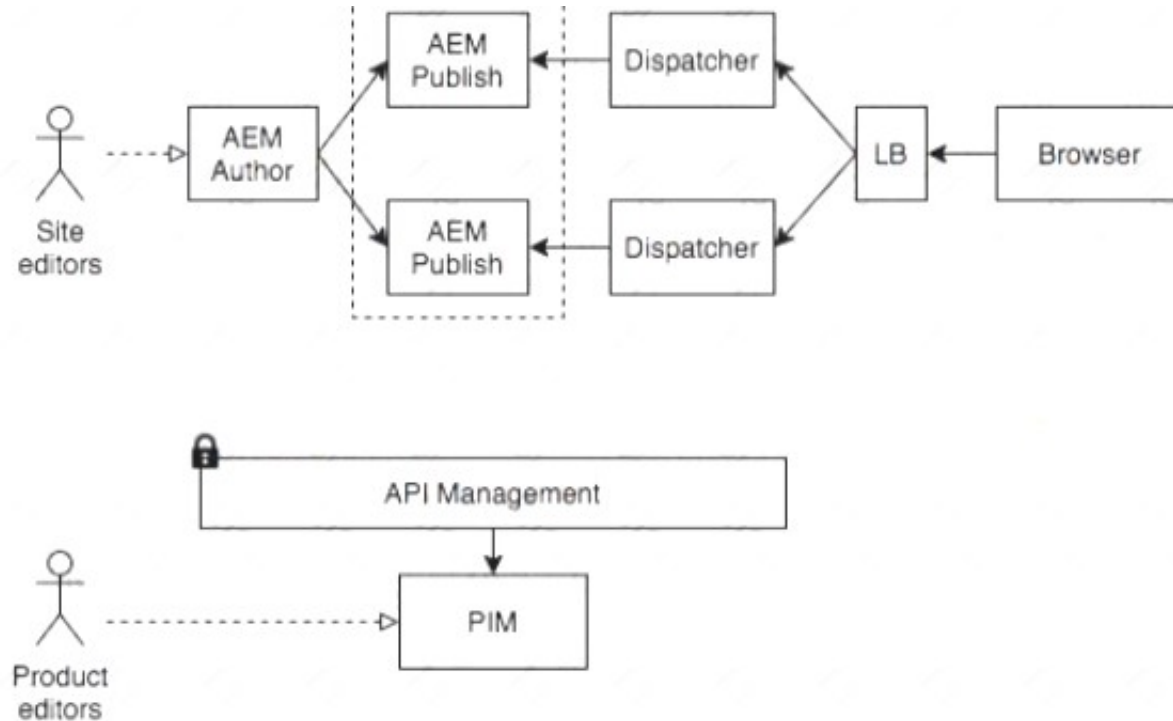
## Exam Questions AD0-E117

Adobe Experience Manager Architect Master



### NEW QUESTION 1

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 2

An Architect needs to design a deployment process without downtime for end users. The system architecture contains an AEM author, two AEM publishers, two publish Dispatchers, and a centrally managed load balancer. The publishers serve some content that cannot be cached. Which two actions should the Architect take to meet these requirements? (Choose two.)

- A. Connect each publish Dispatcher to one AEM publish
- B. Use each publish Dispatcher to load-balance to both AEM publishers
- C. Deploy software packages by replicating them from author to publishers
- D. Configure the centrally managed load balancer to connect directly to the AEM publisher that is not being dedKyed to
- E. Deploy software package to AEM Publishers one by one

**Answer: BE**

#### Explanation:

"using each publish Dispatcher to load-balance to both AEM publishers can provide high availability and fault tolerance. Deploying software packages to AEM Publishers one by one can avoid downtime for end users".

### 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

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 5**

A customer is about to go live with a new website on AEM on prem. The DNS (www.domam.com) already points to the load balancer of the AEM environment and final sanity checks are being performed. The website was tested in lower environments without SSL On production, the website is served over https. During sanity testing, all requests result in a 404.

While investigating this issue, an Architect determines the following:

- The requests land on port 443 on the load balancer where SSL is terminated and an HTTP header X-Forwarded-Proto is set
- The website Sling Mapping is created beneath /etc/map/http/www.domain.com.80
- The URLs on the website are externalized with http in the absolute links

Which two actions should the Architect take to resolve this problem? (Choose two.)

- A. Ensure the Sling Mapping exist at /etc/map/https/www.domain.com.80
- B. Ensure the Sling Mapping exist at /etc/map/httpj)mwp<.domain.com.443Configure the Adobe Granite SSL Connector Factory with the correct SSL port
- C. Configure Apache Felix Http Service SSL Filter to use the correct SSL forward header
- D. Ensure the Sling Mapping exist at /etc/map/https/www.domain.com.443

**Answer:** BC

**Explanation:**

“the Sling Mapping should match the protocol and port of the incoming request, which in this case is https and 443. The Apache Felix Http Service SSL Filter should be configured to use the X-Forwarded-Proto header to detect if the request is secure or not”.

**NEW QUESTION 6**

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 7**

An AEM customer is designing a new website. The design shows that images are very prominent on the website but there is a concern about the big variety of aspect ratios used. Images can potentially be used on different places and components on the website. The customer is looking for a maintainable solution to limit the amount of content editing work when adding the assets to the pages.

Which solution should an Architect recommend?

- A. Integrate with Dynamic Media (Scene 7) and enable smart cropping
- B. Use inline cropping feature of the image component on the pages
- C. Use the cropping feature on the asset in the AEM DAM
- D. Integrate with Dynamic Media (Scene 7) and enable smart imaging

**Answer:** D

**Explanation:**

“integrating with Dynamic Media (Scene 7) and enabling smart imaging can optimize the image delivery for different devices and screen sizes without requiring manual cropping”.

**NEW QUESTION 8**

An existing AEM sites platform will receive the latest service pack. The service pack includes functional and non-functional fixes such as security patches. Which action should the Architect take to make sure the update is successful?

- A. Advise the customer to request Adobe to install the fixes directly on production since they are prechecked.
- B. Install the service pack m staging and ensure that all the bundles are up and running, then deploy to production.
- C. Identify the packages affected by the service pack after installing them into production and monitor them.
- D. Do a full staging of the service pack including a regression test, if passed, deploy to production.

**Answer:** D

**Explanation:**

According to Adobe Experience Manager documentation<sup>3</sup>, installing a service pack requires careful planning and testing before applying it to production environments. A full staging of the service pack includes verifying that all customizations and integrations are compatible with the new version, performing a regression test to ensure that all functionalities are working as expected, and validating that there are no performance or security issues.

**NEW QUESTION 9**

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 10**

An enterprise client is on-boarding an AEM Desktop application to provide authors with the ability to load the AEM repository virtually on the file system. The desktop application is unable to connect to the AEM Author, which has SSL enabled. The intermediate certificate is installed on Apache.

How should an Architect resolve this issue?

- A. Install the certificate chain to the keystore of the AEM authentication service user
- B. Install the Root certificate to the AEM truststore
- C. Install the certificate chain to the keystore of the AEM ssl-service user
- D. Install the certificate chain to the AEM truststore

**Answer:** B

**Explanation:**

“installing the Root certificate to the AEM truststore can allow AEM Desktop application to connect to AEM Author with SSL enabled”.

**NEW QUESTION 10**

A large AEM enterprise site is implementing authentication and requires a true optimal load balancing across the site's multi AEM publish instances. Which approach should an Architect take to meet this requirement?

- A. Configure Sticky Connections
- B. Configure the Dispatcher to run with a Dedicated System User
- C. Enable Encapsulated Token Option
- D. Enable Round Robin processing in Dispatcher configuration

**Answer:** C

**Explanation:**

“enabling Encapsulated Token Option can provide optimal load balancing across multiple AEM publish instances by using a token-based authentication mechanism”.

**NEW QUESTION 15**

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 look 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 possible<sup>123</sup>

. According to Adobe Experience Manager documentation<sup>2n</sup>, 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 completion<sup>3</sup>. This can reduce repository growth and improve workflow efficiency.

**NEW QUESTION 17**

A company with various departments wants to use tagging to improve search capability. Each department is restricted to use its own tags. How should an Architect organize the tags?

- A. Create a department sub-tag in each tag
- B. Use department ID as a prefix of each tag
- C. Create a namespace for each department

D. Create tags in "departmentName:tagName" format

**Answer:** C

**Explanation:**

“creating a namespace for each department can allow organizing tags by different taxonomies and restricting access to them”.

**NEW QUESTION 18**

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 20**

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 23**

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 documentation<sup>3</sup>, 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 25**

A new AEM Sites implementation includes a component that lists the 10 most recently published PDF documents in AEM Assets. The component works as expected during development and passes QA testing. The business starts to use it while entering content and uploading assets in preparation for go-live. A few days later, the component's PDF list is empty.

What is the most likely cause of the issue?

- A. A PDF with too large file size has been uploaded.
- B. The component is missing a matching Oak index.
- C. The component is missing the HTL display context to escape the PDF title.
- D. A PDF with incorrect MIME type has been uploaded.

**Answer:** B

**Explanation:**

“the component is missing a matching Oak index that can efficiently query the PDF documents by their last modified date”.

**NEW QUESTION 26**

A client is modernizing some of their AEM sites to go from static to editable templates so they can use the latest features around has the following parameters:

- The client currently has a dozen static templates that they want to move to editable templates.
- The existing pages use the parsys paragraph system for storing components.



- Each page based on one of the static templates has its own custom properties tab that is unique for that template type.
- The client wants template authors to be able to create the editable templates. Which approach should an Architect use to meet these requirements?

- A. \* 1. Use a new page component for editable templates based on the core components page component\* 2. Migrate page properties to respective components dialogues
- B. \* 1. Use a new page component for editable templates based on the core components page component\* 2. Convert page properties to policies
- C. \* 1. Use the same page components for editable templates\* 2. Use a new template type for each static template
- D. \* 1. Use the same page components for editable templates\* 2. Create a new editable template based on each of the existing page components

**Answer:** A

**Explanation:**

Use a new page component for editable templates based on the core components page component and migrate page properties to respective components dialogues<sup>12</sup>. According to Adobe Experience Manager documentation<sup>1</sup>, static templates are not considered a best practice and editable templates should be used instead. AEM Modernization tools can help migrate from static to editable templates. Editable templates use core components as their base components<sup>2</sup> using content policies<sup>2</sup>.  
and page properties can be migrated to component dialogues

**NEW QUESTION 31**

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 documentation<sup>3</sup>, 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 32**

Users report cases where data inaccuracies are present in an AEM component that relies on AEM Search functionality. The AEM platform utilizes Lucene as its main search engine.  
How should an Architect resolve this issue?

- A. Add search indexes to Lucene search engine
- B. Change the search engine to Property Search
- C. Scale up server resources to meet demands
- D. Migrate search engine to an external Solr instance

**Answer:** A

**Explanation:**

“adding search indexes to Lucene search engine can improve the performance and accuracy of AEM Search functionality”.

**NEW QUESTION 36**

A customer has an international presence and a strong brand image. The customer considers the exceptional quality images used for both print and on the website to be essential for its business, The customer uses AEM 6.5 managed services with a configuration of 2 dispatchers, 2 publishers, and 1 author. The original images can weigh up to 500Mb with videos weighing even more. Renditions are generated after files are uploaded to AEM DAM by the Design team so the Authoring team can use them on the website. The teams report issues with platform stability and slowness. Visitors report that images look pixelated on some screens and pages are very slow to load. Which two actions should the Architect take to resolve these issues? (Choose two.)

- A. Train the design team to upload smaller assets and save the originals elsewhere
- B. Allocate more memory to ImageMagick and FFmpeg
- C. Optimize renditions for the different viewports used by the visitors
- D. Split AEM Assets and Sites in two different stacks and use Connected Assets
- E. Add more dispatchers and publishers to the AEM configuration

**Answer:** CD

**Explanation:**

“optimizing renditions for different viewports can improve the image quality and page load speed for visitors. Splitting AEM Assets and Sites in two different stacks and using Connected Assets can reduce the load on the author server and improve platform stability”.

**NEW QUESTION 40**

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 41**

A website built on AEM Sites displays the company's stock price in the footer of all pages. The stock data is retrieved from a third party REST service using two-way SSL and rendered in an AEM component using HTL. During performance testing in the last development sprint it becomes apparent that the third party service sometimes takes up to 30 seconds to respond, which degrades the overall site performance. How should an Architect address this issue?

- A. Call the REST service directly from the browser
- B. Temporarily remove the component from all content
- C. Load the stock data component asynchronously
- D. Add a 5 second timeout to the REST call

**Answer:** C

**Explanation:**

"loading the stock data component asynchronously can improve the site performance by not blocking the page rendering while waiting for the REST service response".

**NEW QUESTION 46**

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 50**

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 54**

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