



Adobe

Exam Questions AD0-E116

Adobe Experience Manager Developer Expert

NEW QUESTION 1

An application runs specific license checks against certain DAM assets every day. It should send an email to a configured list if it finds warnings, and mark the asset accordingly. A service component that uses the Apache Sling Scheduler Service is created. DAM assets that must NOT be used anymore are hidden using ACLs and the license check must re-check them.

How should a developer obtain a resource resolver that can read and update the DAM assets?

- A. Set up a cron job with curl calls with the admin user and use `request.getResource().getResourceResolver()`.
- B. Create a configuration line in PID `com.day.cq.security.ACLSetup` for the user that you obtain a session for via `ResourceResolverFactory.getResourceResolver(...)`.
- C. Configure the user admin in PID `org.apache.sling.serviceusermapping.impl.ServiceUserMapperImpl` as user.default and make sure the service user exists and has `jr:read` and `jr:write` permissions.
- D. Create a configuration for PID `org.apache.sling.serviceusermapping.impl.ServiceUserMapperImpl.amended-damaccess` that references a pre-created service user with r/w permissions and use `ResourceResolverFactory.getServiceResourceResolver(...)`.

Answer: C

NEW QUESTION 2

One content package of a custom application contains the following content paths.

```
/apps/myproj/install  
/apps/myproj/components  
/apps/myproj/i18n
```

The server also contains the content path `/apps/myproj/configuration` that must NOT be touched when installing the package.

Which two filter definitions should a developer use to always update only the contained paths upon installation in the server? (Choose two.)

A

```
<filter root="/apps/myproj">  
  <exclude pattern="configuration.*"/>  
</filter>
```

B

```
<filter root="/apps/myproj">  
  <include pattern=".*"/>  
  <exclude pattern="configuration.*"/>  
</filter>
```

C

```
<filter root="/apps/myproj">  
  <exclude pattern="/apps/myproj/configuration.*"/>  
</filter>
```

D

```
<filter root="/apps/myproj" mode="merge">
```

E

```
<filter root="/apps/myproj">  
  <include pattern="/apps/myproj/(install|components|i18n).*/>  
</filter>
```

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

Answer: CD

NEW QUESTION 3

A developer must create a workflow step that assigns a 'WorkItem' to the appropriate person based on who has the least amount work to do. The group that must perform the action is configured into the workflow.

Which non-deprecated interface should the Java implementation class use to perform the assignment?

- A. com.adobe.granite.workflow.exec.ParticipantStepChooser
- B. com.day.cq.workflow.exec.ParticipantChooser
- C. com.day.cq.workflow.exec.WorkItem
- D. com.adobe.granite.workflow.exec.WorkflowData

Answer: A

NEW QUESTION 4

The structure section of an editable template has a locked component.
What happens to the content of that component when a developer unlocks it?

- A. The content stays in the same place but it ignored on pages using the template.
- B. The content is moved to the initial section of the editable template.
- C. The content is deleted after confirmation from the template author.
- D. The content is copied to the initial section of the editable template.

Answer: B

NEW QUESTION 5

Which log file contains AEM application request and response entries?

- A. response.log
- B. request.log
- C. history.log
- D. audit.log

Answer: B

NEW QUESTION 6

The dependency of an AEM project fails when a developer configures using Apache Maven. Refer to the error information below.

```
INFO]----- [ERROR] COMPILATION ERROR : [INFO] -----[ERROR]
/training/core/src/main/java/com/adobe/training/core/listeners/SimpleResourceListener.java:[18,28] package org.apache.sling.api does not exist
[ERROR] /training/core/src/main/java/com/adobe/training/core/filters/LoggingFilter.java:[26,28] package org.apache.sling.api does not exist
[ERROR] /training/core/src/main/java/com/adobe/training/core/filters/LoggingFilter.java:[27,31] package org.apache.sling.engine does not exist
[ERROR] /training/core/src/main/java/com/adobe/training/core/models/HelloWorldModel.java:[22,37] package org.apache.sling.api.resource does not exist
[ERROR] /training/core/src/main/java/com/adobe/training/core/models/HelloWorldModel.java:[25,33] package org.apache.sling.api.settings does not exist
[ERROR] /training/core/src/main/java/com/adobe/training/core/models/HelloWorldModel.java:[31,13] cannot find symbol
symbol: class SlingSettingsService
location: class com.adobe.training.core.models.HelloWorldModel
What should a developer add to the pom.xml to fix the Maven build?
```

- A. "<dependency><groupId>com.adobe.aem</groupId><artifactId>aem-api</artifactId><version>6.4.0</version><classifier>apis</classifier><scope>provided</scope></dependency>"
- B. "<dependency><groupId>com.adobe.aem</groupId><artifactId>uber-jar</artifactId><version>6.4.0</version><classifier>apis</classifier><scope>provided</scope></dependency>"
- C. "<resources><resource><directory>src/main/content/jcr_root</directory><filtering>>false</filtering><excludes><exclude>/**/*.vlt</exclude><exclude>/**/*.vltignore</exclude><exclude>libs</exclude></excludes></resource></resources>""<repositories><repository><id>adobe-public-releases</id><name>Adobe Public Repository</name><url>https://repo.adobe.com/nexus/content/groups/public/</url><layout>default</layout></repository></repositories>"
- D. "<repository><id>adobe-public-releases</id><name>Adobe Public Repository</name><url>https://repo.adobe.com/nexus/content/groups/public/</url><layout>default</layout></repository></repositories>"

Answer: B

NEW QUESTION 7

There is a config file package.myClass.config.factory-myApp.xml – what is true? (Choose two)

- A. The word "config" is a sign of factory
- B. The word "factory" is a sign of factory
- C. Should be set package.myClass.config.factory-<identifier>
- D. Must be set package.myClass.config.factory-<identifier>

Answer: C

NEW QUESTION 8

What is the artifact ID of the maven dependency that contains all core AEM APIs?

- A. core-jar
- B. api-jar
- C. aem-jar
- D. uber-jar

Answer: D

Explanation:

<https://helpx.adobe.com/ro/experience-manager/6-3/sites/developing/using/ht-projects-maven.html>

NEW QUESTION 9

A developer has a component located under the path /apps. This component has a Client Library which is directly loaded onto a page. The publish instance loads the page correctly. The dispatcher also loads the page but the Client Library is missing. How should the developer resolve this issue, while taking security into consideration?

- A. Change the ACLs for the Client Library.
- B. Move the Client Library under /apps/<project>library.
- C. Add the property allowProxy with a boolean value true.
- D. Allow the path to the clientlib on the dispatcher.

Answer: C

NEW QUESTION 10

A custom AEM application contains a service component that needs to access the JCR repository within the activate method. The activate method uses `ResourceResolverFactory.getServiceResourceResolver(...)` without specifying a sub service name. What should a developer do to make sure the user service mapping for the service component is available?

- A. Create a field of type `ServiceUserMapper` and annotate it with `@Reference` using `ReferencePolicy.STATIC`
- B. Wait for the service `ServiceUserMapper` via `BundleContext.getServiceReference(...)`
- C. Create a field of type `ServiceUserMapped` and annotate it with `@Reference` using `ReferencePolicy.DYNAMIC`
- D. Create a field of type `ServiceUserMapped` and annotate it with `@Reference`

Answer: B

NEW QUESTION 10

In which maven build phase is the content package assembled?

- A. install
- B. compile
- C. package
- D. deploy

Answer: C

NEW QUESTION 11

An online insurance company website has user-generated content that must be replicated in all publish instances. What action should the developer take to achieve this?

- A. Configure the dispatcher flush agent in publish instance.
- B. Configure reverse replication agents for the author.
- C. Configure the replication agent in the publish instances.
- D. Disable static agent in the author instance.

Answer: B

Explanation:

<https://docs.adobe.com/content/help/en/experience-managerdispatcher/using/configuring/page-invalidate.html>

NEW QUESTION 13

A developer is creating a new OSGi bundle `com.custom.package.b` to expose new services. `com.custom.package.a` is already installed and active in the system and has the following package definition:

```
Export-Package: com.custom.package.a;version="2.0"
Import-Package: com.sample.package.a;version="[1,2)"
Classpath: .,com.sample.package.b-3.0.jar
```

The system console shows the following package availability:

```
com.sample.package.a;version="1.5"
com.sample.package.c;version="3.0"
```

Bundle `com.custom.package.b` to be installed has the following package definition:

```
Export-Package: com.custom.package.b;version="1.0"
Import-Package: com.custom.package.a;version="[1,2)",com.sample.package.b;version="[3.0,3.0)",com.sample.package.c;version="[2,3)
```

What will happen when the developer uploads the bundle `com.custom.package.b` into the system?

- A. The bundle will install but fail the activation due to unsatisfied dependencies `com.sample.package.b` and `com.sample.package.c`.
- B. The bundle will install but fail the activation due to unsatisfied dependency `com.sample.package.c`.
- C. The bundle will install and activate successfully.
- D. The bundle will install but fail the activation due to unsatisfied dependency `com.sample.package.b`.

Answer: A

NEW QUESTION 18

A developer needs to create a banner component. This component shows an image across the full width of the page. A title is shown on top of the image. This text can be aligned to the left, middle, or right. The core components feature a teaser component which matches almost all requirements, but not all. What is the most maintainable way for the developer to implement these requirements?

- A. Use and configure the teaser core component.
- B. Create a new custom component from scratch.
- C. Overlay the teaser core component.
- D. Inherit from the teaser core component.

Answer: D

Explanation:

<https://docs.adobe.com/content/help/en/experience-manager-core-components/using/components/teaser.html>

NEW QUESTION 22

A developer needs to analyze log messages for a custom Java application. The developer writes the following Java class:

```
package com.abc.xyz;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class MyClass {

    private static final Logger logger = LoggerFactory.getLogger(this.getClass());

    public void customMethod() {

        logger.debug("A custom log message");

    }

}
```

The developer creates a custom log named custom.log with a debug level in OSGi web console for Java package com.abc.xyz.

```
package com.abc.xyz;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;

public class MyClass {

    private static final Logger logger = LoggerFactory.getLogger(this.getClass());

    public void customMethod() {

        logger.debug("A custom log message");

    }

}
```

Where should the developer look in the OSGi webconsole to view the above message?

- A. OSGi -> Log Service and click logs/custom.log
- B. Sling -> Log Support and click logs/custom.log
- C. Sling -> Metrics and click logs/custom.log
- D. AEM -> Log Support and click logs/custom.log

Answer: B

NEW QUESTION 26

A banking AEM application contains functionality to calculate a mortgage rate based on user input. A servlet in place calculates the result in the backend. A call to an internal third-party REST service is required to retrieve the average object value based on a given zip code.

The following three service interfaces are used:

MortgageCalculationServlet, MortgageCalculationService and ObjectValueLookupRestService where MortgageCalculationServlet has a dependency to MortgageCalculationService and MortgageCalculationService has a dependency to ObjectValueLookupRestService.

The calculation has many combinations of input parameters and edge cases, so the JUnit coverage must be as high as possible.

Which two strategies should the developer use to ensure testability of the application code? (Choose two)

- A. Use the standard OSGi @Reference annotation to wire the dependencies in application code
- B. Use BundleContext.getServiceReference(...) and BundleContext.getService(...) in application code to look up for the required services just before usage
- C. Deploy a third party dependency injection container to wire dependencies more efficiently in application code
- D. Use a mock framework to be able to create and inject mocks in the test code
- E. Use static methods to avoid boilerplate in application code

Answer: AD

NEW QUESTION 29

A developer creates Editable Templates based on a custom Page component. The developer wants to leverage the Style System within the Editable Templates to allow authors to switch between the Dark and Light Theme. The Style System dialog is NOT enabled for the site. What should the developer do to resolve this issue?

- A. Define Style Definitions using PagePolicy dialog on Editable Template.
- B. Create two new client libraries with a dark and light theme and map them to the Page component.
- C. Set the sling:resourceSuperType property to core/wcm/components/page/v2/page on the Page component.
- D. Create a new dialog for the custom Page components.

Answer: B

NEW QUESTION 33

A developer is working on the following Sling Model that is being used in a component.

```
@Model(adaptables = SlingHttpServletRequest.class, defaultInjectionStrategy = DefaultInjectionStrategy.OPTIONAL)
public class SampleModel {
    @Inject
    private Page currentPage; private boolean matchingTitle;
    @PostConstruct private void init(){
        matchingTitle = title.equals(currentPage.getName());
    }
    public boolean isMatchingTitle(){ return matchingTitle;
    }
}
```

The model must check if the configured value of the jcr:title property for the component matches the same name of the current page. If the jcr:title property of the component has NOT been configured, then isMatchingTitle() must return false.

How should the developer inject the title property in this model?

- A. "@ValueMapValue@Via("jcr:title")@Requiredprivate String title;"
- B. "@ValueMapValue@Named("jcr:title")@Default(values = "") private String title;"
- C. "@ValueMapValue@Named("jcr:title")@Requiredprivate String title;"
- D. "@ValueMapValue@Via("jcr:title")@Default(values = "") private String title;"

Answer: B

NEW QUESTION 35

A developer needs to implement a functionality that requires creating a Custom Workflow Step. Which two steps should the developer take to start developing the custom behavior? (Choose two)

- A. Implement a Java class extending from class com.adobe.granite.workflow.exec.WorkflowProcess
- B. Create a Workflow component node of the Super Resource Type "cq/workflow/components/model/process" under the folder /apps/components
- C. Create a Workflow component node of the Super Resource Type "cq/workflow/components/step" under the folder /etc/workflow/models
- D. Implement a Java class with this method "public void process (WorkItem item, WorkflowSession wfsession) throws WorkflowException"
- E. Implement a Java class implementing the interface com.adobe.granite.workflow.exec.WorkflowProcess

Answer: BE

NEW QUESTION 37

A developer determines that the dispatcher is NOT refreshing the cached page/content/sampleproject/sample.html after it is updated.

The dispatcher.any contains the following entries:

```
/cache
{
/docroot "/opt/dispatcher/cache"
/statfile "/tmp/dispatcher-website.stat"
/statfileslevel "2"
/rules
{
/0000 { /glob "*" /type "allow" }
}
/invalidate
{
/0000 { /glob "*" /type "deny" }
}
}
```

Refer to the \$DOCROOT directory below: [user@group /opt/dispatcher/cache]\$ ls -la total 2

```
drwxr-xr-x. 5 apache apache 4096 Feb 11 11:41 .
drwxr-xr-x. 3 apache apache 4096 Nov 29 16:07 ..
drw-r--r--. 4 root root 4096 Feb 7 03:21 content
-rw-r--r--. 1 apache apache 0 Feb 7 03:19 .stat
```

The dispatcher needs to cache the page and refresh it after it gets updated. What action should the developer take to meet these requirements?

- A. Add the entry /0001 { /glob "*.html" /type "allow" } in the /invalidate section
- B. Change the value of the entry /statfileslevel to "3"
- C. Delete the contents of the DOCROOT directory
- D. Remove /statfile or/statfileslevel

Answer: A

NEW QUESTION 38

How should a developer enable remote debugging of an AEM server without modifying the AEM start script?

- A. Enable the remote debugging service through the AEM Cloud Services menu.
- B. Rename the quickstart jar file to include the additional debug settings.
- C. Enable the remote debugging service through the AEM Web Console.
- D. Include an additional JVM parameter when starting AEM with java -jar.

Answer: B

NEW QUESTION 39

A developer is working with the following HTL expression in a component rendering script:

```
`${path/page.infinity.json} @extension = 'html', removeSelectors = ['foo'],  
selectors = ['foo', 'bar'], prependSuffix = 'hello', suffix = 'world' }
```

What is the expected output of this expression?

- A. path/page.foo.bar.html/hello/world
- B. path/page.infinity.json.bar.html/world
- C. path/page.bar.html/hello/world
- D. path/page.bar.html/world

Answer: C

NEW QUESTION 42

The following stack trace is written in the error.log file after installing a custom application package. Could not start bundle com.adobe.cq.sample-bundle [526].

Reason: {}. Will retry. org.osgi.framework.BundleException: Unable to resolve com.adobe.cq.sample-bundle [526](R 526.0):

missing requirement [com.adobe.cq.sample-bundle] osgi.wiring.package

What are two different ways that the developer could resolve the OSGi bundle dependency error? (Choose two)

- A. Go to the Dependency Finder in the System Console to find if another bundle is exporting a similar version of the classes and change the project pom.xml to match the same version
- B. Install the jar in AEM via the curl command 'curl -u username:password -F file=@"/com.example.customlib-3.8.jar" -F name="Dependency" -F force=true -F install=true http://localhost:4502/crx/packmgr/service.jsp --progress-bar -o upload.txt'
- C. Create a folder named "deploy" under \$AEM_HOME/crx-quickstart/ and copy com.example.customlib-3.8.jar in there so AEM uploads it automatically
- D. Go to the project parent pom.xml file and add the dependency with the scope "compile" and instruct the bundle plugin to include the dependency in runtime
- E. Upload the file com.example.customlib-3.8.jar into /apps/<project>/libs folder in CRX DE to make it available for the OSGi bundle

Answer: AD

NEW QUESTION 44

What is not available in global.jsp?

- A. currentPage
- B. currentNode
- C. currentDesign
- D. currentResource

Answer: D

NEW QUESTION 45

How should a developer configure the replication agent to flush the dispatcher cache for a newly activated page?

- A. Create a dispatcher flush agent in publish instance
- B. Create a reverse replication agent on the author instance
- C. Create a new replication agent and set transport URI to point to the dispatcher
- D. Set the serialization type property of the default agent to dispatcher flush

Answer: A

NEW QUESTION 46

A developer creates a custom component. The component dialog includes the following two fields:

```

text
- jcr:primaryType="nt:unstructured"
- sling:resourceType="granite/ui/components/coral/foundation/form/textarea"
- fieldlabel="Text"
- name="./text"

charLimit
- jcr:primaryType="nt:unstructured"
- sling:resourceType="granite/ui/components/coral/foundation/form/numberfield"
- defaultValue="0"
- fieldlabel="Character Limit"
- name"./chatLimit"

```

The component should display the first 'X' characters of the text entered in the 'text' input where 'X' is the number entered in the 'charLimit' input. If zero, or no value, is entered in the 'charLimit' input then the text should be unaltered. The developer creates the following Sling Model to perform the truncation:

```

java
@Model(adaptables = SlingHttpServletRequest.class, defaultInjectionStrategy = DefaultInjectionStrategy.OPTIONAL)
public class Truncation {

    @ValueMapValue
    private String text;

    @ValueMapValue
    private Integer charLimit;

    @PostMapValue
    private void init() {
        if (text != null && 0 < charLimit && charLimit < text.length()) {
            text = text.substring(0, charLimit);
        }
    }

    public String getText() {
        return text;
    }
}

```

A Null Pointer Exception occurs if NO charLimit values is set in the component dialog. What should the developer do to resolve this issue?

- A. Replace the defaultValue="0" attribute of the 'charLimit' field in the dialog with min="0".
- B. Add the @Default annotation to the 'charLimit' variable in the Sling Model.
- C. Replace the defaultValue="0" attribute of the charLimit field in the dialog with defaultValue="{Long}0".
- D. Change the defaultInjectionStrategy of the Truncation Sling Model to DefaultInjectionStrategy.REQUIRED.

Answer: B

NEW QUESTION 51

The custom AEM application needs to keep a flat list of all page paths underneath /content/thesite in memory for a real-time integration with high performance requirements.

The developer has the following intermediate state of the class:


```
@Component(immediate = true)
public class PagePathsCacheImpl implements PagePathsCache {
    @Reference
    ResourceResolverFactory resourceResolverFactory;
    List<String> pagePaths = new CopyOnWriteArrayList<String>();
    @Activate
    public void activate() {
        // ... here the initial state of pagePaths is filled via resourceResolver.findResources(...)
    }
    public List<String> getPagePaths() {
        return pagePaths;
    }
}
```

What action should the developer take to meet these requirements?

A

Make the class also implement ResourceChangeListener and add

```
property = {
    ResourceChangeListener.CHANGES + "=ADDED",
    ResourceChangeListener.CHANGES + "=REMOVED",
    ResourceChangeListener.PRIMARY_TYPES + "=cq:Page"
    ResourceChangeListener.PATHS + "=/content/thesite"
}
```

to the @Component annotation. In method onChange update field pagePaths according to received list of ResourceChange.

B

Make the class also implement ResourceChangeListener and add

```
property = {
    ResourceChangeListener.CHANGES + "=ADDED",
    ResourceChangeListener.CHANGES + "=REMOVED",
    ResourceChangeListener.PATHS + "=/content/thesite"
}
```

to the @Component annotation. In method onChange filter received list of ResourceChange for pages only and update field pagePaths accordingly.

C

Make the class also implement ResourceObservationManager and add

```
property = {
    ResourceObservationManager.CHANGES + "=ADDED",
    ResourceObservationManager.CHANGES + "=CHANGED",
    ResourceObservationManager.CHANGES + "=REMOVED",
    ResourceObservationManager.PATHS + "=/content/thesite"
}
```

to the @Component annotation. In method onChange filter received list of ResourceChange for pages only and adjust field pagePaths accordingly.

D

Make the class also implement ResourceObservationManager and add

```
property = {
    ResourceObservationManager.CHANGES + "=ADDED",
    ResourceObservationManager.CHANGES + "=REMOVED",
    ResourceObservationManager.PRIMARY_TYPES + "=cq:Page"
    ResourceObservationManager.PATHS + "=/content/thesite"
}
```

to the @Component annotation. In method onChange update field pagePaths according to received list of ResourceChange.

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

Answer: A

NEW QUESTION 52

Which environment variable in the AEM start script should a developer modify to enable remote debugging?

- A. CQ_RUNMODE
- B. CQ_JVM_OPTS
- C. CQ_PORT
- D. CQ_HOST

Answer: B

NEW QUESTION 57

Which log file should a developer use to search for exception stacktraces?

- A. <aem-install>/crx-quickstart/logs/error.log
- B. <aem-install>/crx-quickstart/logs/request.log
- C. <aem-install>/crx-quickstart/logs/access.log
- D. <aem-install>/crx-quickstart/logs/info.log

Answer: A

NEW QUESTION 62

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