

# AD0-E103<sup>Q&As</sup>

Adobe Experience Manager Developer

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**QUESTION 1**

An application contains an OSGi configuration that contains a password.

How should a developer prevent this sensitive information from being stored in plain text in JCR?

A. 1. Use console at /system/console/crypto to encrypt the value.

2.

Either create an encrypted value for each AEM instance and use runmodes to apply the different values or make sure relevant instances share the same master key.

3.

When loading the value in the code, call CryptoSupport.unprotect(...) before using the value.

B. 1. Use console at /system/console/configMgr and tick the checkbox "encrypt" before saving a configuration.

2.

Use encrypted values work across all instances.

3.

When loading the value in the code, call CryptoSupport.unprotect(...) before using the value.

C. 1. Use console at /system/console/ configMgr and tick the checkbox "encrypt" before saving a configuration.

2.

Either create an encrypted value for each AEM instance and use runmodes to apply the different values or make sure relevant instances share the same master key.

3.

Sensitive information is automatically decrypted using the CryptoSupport OSGi service before the value is returned.

D. 1. Use console at /system/console/crypto to encrypt the value.

2.

Either create an encrypted value for each AEM instance and use runmodes to apply the different values or make sure relevant instances share the same master key.

3.

Sensitive information is automatically decrypted using the CryptoSupport OSGi service before the value is returned.

Correct Answer: A

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**QUESTION 2**

A developer needs an existing workflow to run only when pages are created under a certain folder?

What should the developer create to achieve this?

- A. A Launcher with the field exclude that has the value `!jcr:nodetype==cq:Page`.
- B. A Launcher with the field path pointing to the folder and nodetype field have the value `cq:Page`.
- C. A Launcher with the field path pointing to the folder and condition field and have the value `jcr:content/jcr:primaryType==cq:Page`.
- D. A Launcher with the field condition that has the value `jcr:content/page`.

Correct Answer: C

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### QUESTION 3

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.

Correct Answer: A

Reference: <https://helpx.adobe.com/fi/experience-manager/6-4/sites/deploying/using/replication.html>

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### QUESTION 4

After adding new features, a developer's environment is experiencing slowness before ultimately running out of memory. The initial log analysis points towards a large number of open sessions.

Which action should the developer take to further monitor the overall session count on this AEM instance?

- A. Run the following command to generate thread dumps `jstack -l >> threaddumps.log`, analyze thread dumps to find long running sessions.
- B. Go to Web Console > Status > Threads, verify the overall thread count.
- C. Go to Tools > Operations > Monitoring. Create a new report based on Number of Active Sessions as metric.
- D. Go to `/crx-quickstart/logs/stderr/log`, use the following command `grep -o `CRXSessionImpl` stderr.log | wc -l`.

Correct Answer: D

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## QUESTION 5

A developer needs to create a component with the following requirements: The component must be configurable The component should be editable, NOT removable An author should be unable to add the component to a page through design mode

Which mode structure should the developer use to meet these requirements?

- A.
- ```
+ component
- jcr:primaryType="cq:Component"
- jcr:title="Component"
- componentGroup=".hidden"
+ cq:dialog
...
+ cq:editConfig
- cq:actions = "[edit]"
```
- B.
- ```
+ component
- jcr:primaryType="cq:Component"
- jcr:title="Component"
- cq:actions = "[edit]"
+ cq:dialog
...
```
- C.
- ```
+ component
- jcr:primaryType="cq:Component"
- jcr:title="Component"
- componentGroup=".hidden"
- cq:actions = "[edit]"
+ cq:dialog
...
```
- D.
- ```
+ component
- jcr:primaryType="cq:Component"
- jcr:title="Component"
- hidden="true"
+ cq:dialog
...
+ cq:editConfig
- cq:actions = "[edit]"
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

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## QUESTION 6

A Client-Side Library has the category "library.example".

Which HTL statement should a developer use to reference only the CSS files of this Client-Side Library?

A.

B.

C.

D.

Correct Answer: C

Reference: <https://aemcq5pedia.wordpress.com/author/aempediaalpha/page/2/>

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## QUESTION 7

A developer is working on a complex project with multiple bundles. One bundle provides an OSGi service for other bundles.

Which two options are necessary to ensure that the other bundles can reference that OSGi service? (Choose two.)

A. The bundles consuming the service need to import the fully qualified name of the service interface.

B. The service needs to correctly declare metatype information.

C. The bundle providing the service needs to contain a whitelist of allowed consumer bundles.

D. The bundle providing the service needs to contain an adequate SCR descriptor file.

E. The bundle providing the service needs to export the java package of the service interface.

Correct Answer: CE

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## QUESTION 8

In which two ways can a developer keep simple and maintainable CRX Access Control Lists? (Choose two.)

A. Delete the `everyone` group.

- B. Use Deny statements sparingly.
- C. Assign access rights to user groups rather than users.
- D. Assign access rights user by user.
- E. Use Deny statements extensively.

Correct Answer: CD

Reference: <https://helpx.adobe.com/experience-manager/6-3/sites/administering/using/user-group-admin.html>

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## QUESTION 9

There are performance, stability, and security issues with an installed AEM instance. What should a developer do to fix these issues?

- A. Delete and reinstall the AEM instance.
- B. Install Adobe-provided Apache configuration file.
- C. Stop, clear cache files, and restart the AEM instance.
- D. Install service pack updates from package share.

Correct Answer: C

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## QUESTION 10

The developer is presented with a component "Component A" which inherits from a component "Component B".

The dialog of Component A on path `../cq:dialog/../../items` looks like:

```
+align
- jcr:primaryType="nt:unstructured"
- sling:resourceType="granite/ui/components/coral/foundation/form/select"
- fieldLabel="Align Text"
- name="./align"
```

The dialog of Component B on path `../cq:dialog/../../items` looks like:

```
+title
- jcr:primaryType="nt:unstructured"
- sling:resourceType="granite/ui/components/coral/foundation/form/textarea"
- fieldLabel="Title"
- name="./title"

+description
- jcr:primaryType="nt:unstructured"
- sling:resourceType="granite/ui/components/coral/foundation/form/textarea"
- fieldLabel="Description"
- name="./description"
```

The requirement for the dialog is that the "Align text" field is shown after the "Title" field.

What should the developer do without changing Component B?

- A. Move the align node from Component A to Component B and order them according the requirements.
- B. Extend Component B with the functionality of Component A.
- C. Add the property sling:orderBefore="description" to the align node.
- D. Move all nodes under the item node from Component B to Component A and order them according the requirements.

Correct Answer: A

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### QUESTION 11

A developer has a component named foobar with the following file:

foobar.html

```
<div data-one="${ 'foo' }" data-two="${2}" data-three="${true}"></div>
<div data-one="${ '' }" data-two="${0}" data-three="${false}"></div>
```

What is the output when the component is rendered?

A.

```
<div data-one="foo" data-two=2 data-three=""></div>
<div data-two=0 data-three=""></div>
```

B.

```
<div data-one="foo" data-two="2" data-three="true"></div>
<div data-one="" data-two="0" data-three="false"></div>
```

C.

```
<div data-one="foo" data-two=2 data-three=""></div>
<div data-one="" data-two=0 data-three=""></div>
```

D.

```
<div data-one="foo" data-two="2" data-three></div>
<div data-two="0"></div>
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

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**QUESTION 12**

A developer creates two custom classes. ClassA has the following code: The developer creates a custom log custom.log with debug level in OSGi sling log support for the Java package com.aem.abc. The developer adds another class ClassB with the following code:

```
package com.aem.abc;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
public class ClassA {
    private static final Logger logger = LoggerFactory.getLogger(this.getClass());
    public void classAMethod() {
        logger.debug("Message from Class A method");
    }
}
```



```
package com.aem.xyz;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
public class ClassB {
private static final Logger logger = LoggerFactory.getLogger(this.getClass());
    public void classBMethod() {
        logger.debug("Message from Class B method");
    }
}
```

Which action must the developer take to see the log message in the same file from both classes?

- A. Create separate a log file in the OSGi web console -->Sling --> Log Support for logger com.aem.xyz.
- B. Configure custom.log in the OSGi web console --> Sling --> Log Support and replace com.aem.xyz with com.aem.abc.
- C. Configure custom.log in the OSGi web console --> Sling --> Log Support and replace logger com.aem.abc with com.aem.
- D. Configure custom.log in the OSGi web console --> Sling --> Log Support and replace the package com.aem.abc with com.aem.xyz.

Correct Answer: A

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### QUESTION 13

A developer needs to implement a header component for a website. The component has the following requirements:

The component should be configured once on the page highest in the hierarchy.

The header component on pages lower in the hierarchy should look the same and show the same data.

If necessary, the configuration can be overwritten on a child page.

The component should show a list of links that are configured in the header component.

Which code snippet for returning the list of pages should the developer use?

A.

```
public String [] getHeaderLinks(Resource componentResource) {  
    final HierarchyNodeInheritanceValueMap properties = componentResource.  
    adaptTo(HierarchyNodeInheritanceValueMap.class);  
    return properties.get(HEADER_PAGE_LIST, String[].class);  
}
```

B.

```
public String [] getHeaderLinks(Page page) {  
    final Resource pageContent = page.getContentResource();  
    final ComponentInheritanceValueMap properties = ComponentInheritance  
ValueMap(pageContent);  
    return properties.get(HEADER_PAGE_LIST, String[].class);  
}
```

C.

```
public String [] getHeaderLinks(Resource componentResource) {  
    final ComponentInheritanceValueMap properties = componentResource.  
    adaptTo(ComponentInheritanceValueMap.class);  
    return properties.getInherited(HEADER_PAGE_LIST, String[].class);  
}
```

D.

```
public String [] getHeaderLinks(Resource componentResource) {  
    final HierarchyNodeInheritanceValueMap properties = new HierarchyNo  
deInheritanceValueMap(componentResource);  
    return properties.getInherited(HEADER_PAGE_LIST, String[].class);  
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

---

#### QUESTION 14

A developer needs to analyze log messages for 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.

Where should the developer look in the OSGi web console 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

Correct Answer: B

---

#### QUESTION 15

A developer needs to configure sets of values according to the following parameters: Varies for different staging environments Varies for different content paths Differs between author and publish

Which implementation strategy should the developer use to meet these requirements?

- A. A custom cloud configuration
- B. A context aware configuration with buckets using an OSGi configuration
- C. One OSGi configuration for the set of values with runmodes
- D. A JCR property at the content root node of the site with inheritedPageProperties

Correct Answer: C