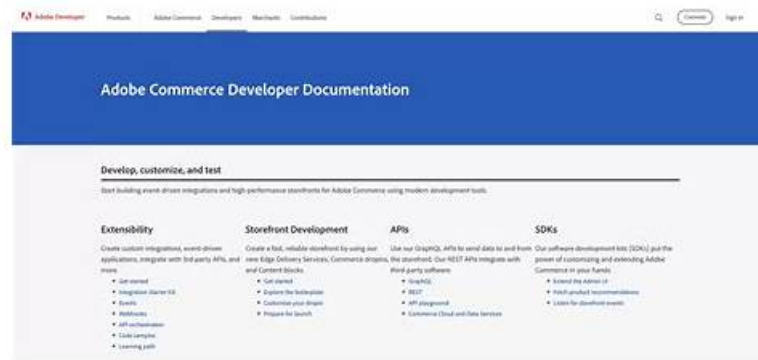


100% Pass 2025 AD0-E716: Trustable Adobe Commerce Developer with Cloud Add-on Learning Engine



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Adobe AD0-E716 Exam Syllabus Topics:

Topic	Details
Topic 1	• Demonstrate knowledge of how routes work in Adobe Commerce • Describe how to use patches and recurring set ups to modify the database
Topic 2	• Demonstrate the ability to create new APIs or extend existing APIs • Demonstrate the ability to manage Indexes and customize price output
Topic 3	• Demonstrate the ability to extend the database schema • Describe how to add and configure fields in store settings
Topic 4	• Manipulate EAV attributes and attribute sets programmatically • Demonstrate how to effectively use cache in Adobe Commerce
Topic 5	• Demonstrate the ability to update and create grids and forms • Demonstrate the ability to use the configuration layer in Adobe Commerce
Topic 6	• Demonstrate the ability to import • export data from Adobe Commerce • Explain how the CRON scheduling system works
Topic 7	• Identify how to access different types of logs • Demonstrate understanding of branching using CLI
Topic 8	• Demonstrate knowledge of Adobe Commerce architecture • environment workflow • Demonstrate understanding of cloud user management and onboarding UI
Topic 9	• Explain the use cases for Git patches and the file level modifications in Composer
Topic 10	• Demonstrate the ability to use the queuing system • Demonstrate understanding of updating cloud variables using CLI

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Adobe Commerce Developer with Cloud Add-on Sample Questions (Q63-Q68):

NEW QUESTION # 63

An Adobe Commerce Developer is tasked with creating a custom form which submits its data to a frontend controller. They have decided to create an action and have implemented the `\Magento\Framework\App\Action\HttpPostActionInterface` class, but are not seeing the data being persisted in the database, and an error message is being shown on the frontend after submission.

After debugging and ensuring that the data persistence logic is correct, what may be cause and solution to this?

- A. The developer forgot to implement a `validatePostDataQ` method in their action. They should implement this method: all non-validated POST data gets stripped out of the request and an error is thrown.
- **B. Form key validation runs on all non-AJAX POST requests, the developer needs to add the `form_key` to their requests.**
- C. Magento does not allow POST requests to a frontend controller, therefore, the submission functionality will need to be rewritten as an API endpoint.

Answer: B

Explanation:

According to the Magento Stack Exchange answer, form key validation is a security feature that prevents CSRF attacks by checking if the form key in the request matches the one generated by Magento. If the developer does not include the `form_key` in their custom form, the validation will fail and an error will be shown. Therefore, the developer needs to add the `form_key` to their requests by using `<?= $block->`

`getBlockHtml('formkey') ?>` in their template file. Verified References: <https://magento.stackexchange.com/questions/95171/magento-2-form-validation>

In Adobe Commerce, when handling POST requests from forms on the frontend, form key validation is enabled by default as a security measure to prevent Cross-Site Request Forgery (CSRF) attacks. This validation checks that the form submission is coming from the same origin by including a unique token (form key) in the request. If this form key is missing or incorrect, the request will fail, and an error message may be shown on the frontend.

In this scenario:

- * Since the developer has used `\Magento\Framework\App\Action\HttpPostActionInterface`, which is appropriate for handling POST requests, it's likely that the error they encounter is due to missing form key validation.
- * The solution is to ensure that the form includes a hidden input field for the form key. Adobe Commerce automatically adds this key in forms if you use the `\Magento\Framework\Data\Form\FormKey` model to get the form key value.

To implement this:

- * Ensure the form includes the form key:

```
<input name="form_key" type="hidden" value="<?= $block->escapeHtml($block->getFormKey()) ?>" />
```

- * The form key should also be included in the POST data sent to the controller. If it's missing, Adobe Commerce will not process the request.

Additional Resources:

- * Adobe Commerce Developer Guide: Form Key
- * Magento 2.4 Form Key and CSRF Protection

NEW QUESTION # 64

An Adobe Commerce developer is working on a custom gallery extension.

The module uses the `Magento\Catalog\Model\ImageUploader` class for image uploading. The admin controller for custom image uploads is `Vendor\CustomGallery\Controller\Adminhtml\Image\Upload`.

The images need to be stored in different basePath and baseTmpPath than the default ones.

How can the default imageuploader class be extended and used without affecting the other modules that are already using it?

- A.

1. Create a Virtual Type and configure the basePath and baseTmpPath.
2. Add virtual type Vendor\CustomGallery\GalleryImageUpload as a preference for 'Magento\Catalog\Model\ImageUploader'.

```
<virtualType name="Vendor\CustomGallery\GalleryImageUpload" type="Magento\Catalog\Model\ImageUploader">
    <arguments>
        <argument name="baseTmpPath" xsi:type="string">customgallery/tmp/images</argument>
        <argument name="basePath" xsi:type="string">customgallery/images</argument>
    </arguments>
</virtualType>

<preference for="Magento\Catalog\Model\ImageUploader" type="Vendor\CustomGallery\GalleryImageUpload" />
```

- B.

1. Configure the basePath and baseTmpPath Of Magento\Catalog\Model\ImageUploader.
2. Inject the type Magento\Catalog\Model\ImageUploader into admin controller:

```
<type name="Magento\Catalog\Model\ImageUploader">
    <arguments>
        <argument name="baseTmpPath" xsi:type="string">customgallery/tmp/images</argument>
        <argument name="basePath" xsi:type="string">customgallery/images</argument>
    </arguments>
</type>

<type name="Vendor\CustomGallery\Controller\Adminhtml\Image\Upload">
    <arguments>
        <argument name="imageUploader" xsi:type="object">
            Magento\Catalog\Model\ImageUploader
        </argument>
    </arguments>
</type>
```

1. Create a Virtual Type and configure the basePath and baseTmpPath.
2. Inject the virtual type Vendor\CustomGallery\GalleryImageUpload into admin controller:

```
<virtualType name="Vendor\CustomGallery\GalleryImageUpload" type="Magento\Catalog\Model\ImageUploader">
    <arguments>
        <argument name="baseTmpPath" xsi:type="string">customgallery/tmp/images</argument>
        <argument name="basePath" xsi:type="string">customgallery/images</argument>
    </arguments>
</virtualType>

<type name="Vendor\CustomGallery\Controller\Adminhtml\Image\Upload">
    <arguments>
        <argument name="imageUploader" xsi:type="object">
            Vendor\CustomGallery\GalleryImageUpload
        </argument>
    </arguments>
</type>
```

- C.

Answer: B

Explanation:

According to the ImageUploader component guide for Magento 2 developers, the ImageUploader UI component gives users the ability to upload images to the Magento Media Gallery. This component is a variation of the FileUploader component and uses the same configuration settings. The ImageUploader component uses the Magento\Catalog\Model\ImageUploader class for image uploading, which has properties such as basePath and baseTmpPath that define where the images are stored. To extend the default imageuploader class and use it without affecting the other modules that are already using it, the developer needs to create a virtual type of this class in their module's di.xml file and specify different values for basePath and baseTmpPath. The developer also needs to inject their virtual type into their admin controller using the imageUploader argument. Therefore, option B is the correct answer, as it shows the correct di.xml and controller code to extend and use the imageuploader class. Verified References:

https://devdocs.magento.com/guides/v2.3/ui_comp_guide/components/image-uploader/

NEW QUESTION # 65

On an Adobe Commerce Cloud platform, what type of environment will be provisioned when launching the CLI for Commerce command `magento-cloud environment:branch <environment-name> <parent-environment-id>`?

- A. An integration environment with fresh Adobe Commerce Cloud installation.
- **B. An integration environment with the code and database from the parent environment.**
- C. An empty integration environment without any code or database.

Answer: B

Explanation:

The type of environment that will be provisioned when launching the CLI for Commerce command `magento-cloud environment:branch <environment-name> <parent-environment-id>` is an integration environment with the code and database from the parent environment. Integration environments are temporary environments that are used for testing and development purposes on the Adobe Commerce Cloud platform. They can be created from any branch of code and have their own dedicated database and services. When creating an integration environment using the CLI for Commerce command, the code and database from the parent environment are copied to the new integration environment, creating an exact replica of the parent environment. Verified Reference: [Magento 2.4 DevDocs]

NEW QUESTION # 66

An Adobe Commerce developer has created a module that adds a product attribute to all product types via a Data Patch. According to best practices, how would the developer ensure this product attribute is removed in the event that the module is uninstalled at a later date?

- A. Add an `Uninstall.php` file extending `\Magento\Framework\Setup\UninstallInterface` to the module's Setup directory and implement the `uninstall` method.
- **B. Make the Data Patch implement `\Magento\Framework\setup\Patch\PatchRevertableInterface` and implement the `revert` method to remove the product attribute.**
- C. Add instructions to the module's `README.md` file instructing merchants and developers that they must manually remove this attribute if they want to uninstall the module.

Answer: B

Explanation:

According to the *Develop data and schema patches guide* for Magento 2 developers, data patches can also implement `PatchRevertableInterface` to provide rollback functionality for their changes. The `revert()` method contains the instructions to undo the data modifications made by the patch. To ensure that the product attribute is removed when the module is uninstalled, the developer should make the data patch implement `PatchRevertableInterface` and implement the `revert` method to remove the product attribute using `EavSetupFactory` or `AttributeRepositoryInterface`. Verified Reference: <https://devdocs.magento.com/guides/v2.3/extension-dev-guide/declarative-schema/data-patches.html>

NEW QUESTION # 67

A developer is working on an Adobe Commerce Cloud project and wants to get connection data for the environment's deployed services. The developer has all of the necessary permissions to do this.

Which two options would the developer take to get the connection credentials? (Choose Two.)

- A. Connect to server via SSH and read `$_ENV['services']` variable.
- B. Execute `ece-tools env:config:show services` Command.
- **C. Get the data from the Project Web Interface dedicated section.**
- **D. Run the `magento-cloud relationships` CLI Command.**

Answer: C,D

Explanation:

In Adobe Commerce Cloud, connection data for deployed services (such as databases, caches, and other services) can be retrieved using different methods depending on the developer's access and the tools available.

* Using `magento-cloud relationships` Command:

* This CLI command retrieves the connection credentials for the services associated with the environment, such as database and Redis, directly from the command line.

* Project Web Interface:

- * The Project Web Interface provides a dedicated section where developers can access service connection details, making it convenient for those who prefer a graphical interface.
- * Why Options A and B are Correct:
- * Both methods are valid and frequently used for accessing connection information. Option C, `tools env:configshow services`, does not exist. Option D, reading `$_ENV['services']`, would require SSH access and does not provide direct connection details in a user-friendly format.
- * References:
- * Adobe Commerce documentation on Accessing Services

NEW QUESTION # 68

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