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Adobe Commerce Developer with Cloud Add-on Sample Questions (Q28-Q33):

NEW QUESTION # 28
The di. xml file of a module attaches two plugins for the class Action.
The PluginA has the methods: beforeDispatch, aroundDispatch, afterDispatch. The PluginB has the methods: beforeDispatch, afterDispatch.

```
<config>
    <type name="Magento\Framework\App\Action\Action">
        <plugin name="vendor_module_plugina" type="Vendor\Module\Plugin\PluginA" sortOrder="10" />
        <plugin name="vendor_module_pluginb" type="Vendor\Module\Plugin\PluginB" sortOrder="20" />
    </type>
</config>
```

The around plugin code is:

```
class PluginA
{
    public function aroundDispatch(\Magento\Framework\App\Action\Action $subject, $next, $request)
    {
        // custom code
        return $request;
    }
}
```

What would be the plugin execution order?

- A.
```
PluginA::beforeDispatch()
PluginA::aroundDispatch()
PluginA: afterDispatch()

PluginA::beforeDispatch()
PluginA::aroundDispatch()
PluginB::beforeDispatch()
```
- B.
```
Action::dispatch()
PluginB: afterDispatch()
PluginA::aroundDispatch()
PluginA::afterDispatch()
```
- C.
```
PluginA::beforeDispatch()
PluginA::aroundDispatch()
PluginB::beforeDispatch()
Action::dispatch()
PluginB: afterDispatch()
PluginA::aroundDispatch()
```

Answer: C

Explanation:
* Magento Plugin Types and Execution Order:

* Before Plugins: Execute before the actual method is called. They execute in ascending sortOrder.
* Around Plugins: Wrap around the method call. The around method is executed, passing control to the $next callback that calls the actual method.
* After Plugins: Execute after the method completes. They execute in descending sortOrder.
* Analysis of Plugins Configuration:
* PluginA (sortOrder="10") has beforeDispatch, aroundDispatch, and afterDispatch methods.
* PluginB (sortOrder="20") has beforeDispatch and afterDispatch methods.
* Execution Order Breakdown for Option A:
* Before Plugins:
* PluginA::beforeDispatch() executes first (lower sortOrder).
* PluginB::beforeDispatch() executes second.
* Around Plugin:
* PluginA::aroundDispatch() wraps around the dispatch method. It will only proceed to the actual dispatch call after completing any custom code and calling the $next function.
* Action Dispatch:
* Action::dispatch() is executed as part of PluginA::aroundDispatch() via $next().
* After Plugins:
* PluginB::afterDispatch() executes after the dispatch method, due to its higher sortOrder.
* PluginA::afterDispatch() executes last.
Execution Flow for Option A:
* PluginA::beforeDispatch()
* PluginB::beforeDispatch()
* PluginA::aroundDispatch() wraps the Action::dispatch()
* Action::dispatch() occurs within the aroundDispatch of PluginA
* PluginB::afterDispatch()
* PluginA::afterDispatch()
This matches the order specified in Option A.
References:
* Magento Plugins (Interceptors) Overview - Adobe Commerce Developer Guide detailing the role and order of before, around, and after plugins.
* Managing Plugin Execution Order - Explanation of how sortOrder affects execution order of plugins.
* Magento Dependency Injection Configuration - Detailed information on configuring plugins within di.
xml.
By following the sortOrder and plugin type rules, Option A correctly represents the plugin execution order for the given setup.

NEW QUESTION # 29
What are two ways to access the PHP error logs on Adobe Commerce Cloud? (Choose Two.)

- A. Connect to the the servers via SSH and localize the log files.
- B. Navigate to the dedicated entry in the Project Web Interface.
- C. Use the dedicated command from Cloud CLI for Commerce.
- D. Use the Adobe Admin Log application.

Answer: A,C

Explanation:
Two ways to access the PHP error logs on Adobe Commerce Cloud are to use the dedicated command from Cloud CLI for Commerce and to connect to the servers via SSH and localize the log files. The Cloud CLI for Commerce is a command-line tool that allows developers to interact with their Adobe Commerce Cloud projects and environments. The developer can use the command magento-cloud log php to view or download the PHP error logs from any environment. Alternatively, the developer can connect to the servers via SSH and navigate to the var/log directory where the PHP error logs are stored. Verified Reference: [Magento 2.4 DevDocs] 3

NEW QUESTION # 30
An Adobe Commerce developer is working on a custom gallery extension.
The module uses the Magento\catalog\Model\iinageUploader 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. 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>
```

- B.

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.

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`:

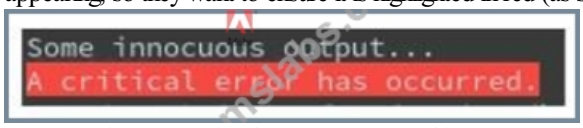
```
<virtualType
  name="Vendor\CustomGallery\GalleryImageUpload"
  type="Magento\Catalog\Model\ImageUploader">
    <arguments>
        <argument name="baseTmpPath" xsi:type="string">customgallery/tmp/images</argument>
        <argument name="basePath" xsi:type="string">customgallery/images</argument>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

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

Answer: A

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

NEW QUESTION # 31
An Adobe Commerce developer is creating a new console command to perform a complex task with a lot of potential terminal output. If an error occurs, they want to provide a message that has higher visibility than some of the other content that may be appearing, so they want to ensure it is highlighted in red (as seen in the screenshot):



How can they customize the appearance of this message?

- A. Call the setDecorationType(Stype) method On the Symfony\Console\Output\OutputInterface Object before Calling writeln().
- B. Throw a new commandException with the desired message passed as an argument.
- C. Wrap the output content in tags like <error>, <info>, or <comment>.

Answer: C

Explanation:
In Adobe Commerce, when developing custom console commands, you can customize output messages by using special tags provided by Symfony Console, which Adobe Commerce relies on. These tags are designed to help differentiate types of messages and can be used to add color or emphasis to the output, enhancing visibility.
For critical error messages, wrapping the message in the <error> tag will display it in red, as shown in your screenshot. The available tags include:
* <error> for red-colored error messages.
* <info> for informational messages (often displayed in blue).
* <comment> for comments or warnings (usually yellow).
$output->writeln('<error>A critical error has occurred.</error>');
This method is effective and widely used for output customization in Symfony-based console commands.
Additional Resources:
* Adobe Commerce Developer Guide: Console Command Customization
* Symfony Console Output Formatting

NEW QUESTION # 32
An Adobe Commerce developer was asked to provide additional information on a quote. When getting several quotes, the extension attributes are returned, however, when getting a single quote it fails to be returned.
What is one reason the extension attributes are missing?

- A. The developer neglected to provide a plugin On Hagento\Quote\Api\CartRepositoryInterface: :get.
- B. The developer neglected to implement an observer on the coiiection_ioad_after event.
- C. The developer neglected to add coiiection="trueM to their attribute in etc/extension_attributes.xmi file. O ottribute code="my_attributesM type="MyVendor\MyModule\Api\Data\