

## Topic: Application development

What is the correct syntax to define hooks in `package.json` file in order to configure functionality to be called at a specific point in your application flow or at a specific event?

- a) `{"hooks": "./cartridge/scripts/hooks.json"}`
- b) `{"hooks": {"name": "dw.ocapi.shop.basket.calculate", "script": "./hooks"}}`
- c) A and B are both correct.
- d) You can't define hooks. This functionality cannot be extended and its purpose it's just for OCAPI.

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How would you make a variable be persistent during multiple pages for your current Site?

- a) `<isset name="var" scope="session"...`
- b) `<isset name="var" scope="request"...`
- c) `<isset name="var" scope="page"...`
- d) `<isset name="var" scope="site"...`

What would be the expected cache policy for a page that is rendered by another page where its controller has defined `cache.applyDefaultCache` in his middleware chain? Choose all correct answers that apply.

- a) Same cache would be applied
- b) If this page is rendered by another controller with another cache configuration it would overwrite the previous one.
- c) If this page is included using `<isinclude url=""... />` no cache would be applied.
- d) It won't be cached.

Cache for stored pages are only invalidated and a new one pulled from the Application Server when:

- a) The defined caching time is exceeded or a replication is performed
- b) The merchant triggers an explicit page cache invalidation in Business Manager

- c) The administrator modifies TTL value to 0 in Administration > Sites > Manage Sites > Cache.
- d) A and B are correct.

What happens if the log size limit is reached?

- A) An email is sent to the administrator account defined in BM.
- b) Old log messages are removed by the new ones.
- c) Logging is suspended until the next day.
- d) Log size limits just exist on sandbox instances.

Imagine your client requested you to send additional information about the client's previous orders. You decide to extend the Controller Order-History to send more data to the view. Is it necessary you replicate the middleware calls exactly?

- a) Yes, otherwise you will get an Error with the text "Params do not match route".
- b) No, it's a bad practice because it will execute those middleware twice.
- c) Yes, otherwise you will get an Error with the text Middleware chain can not be completed.
- d) No, if the original controller has middleware it is better to modify the endpoint.

Given this code. What would be the expected log file name?

```
var Logger = require('dw/system/Logger');
Logger.getLogger('service', 'recaptcha').error('error
message');
```

- a) custom-recaptcha-blade3-1.mon.demandware.net-0-appserver-20210503.log
- b) recaptcha-service-blade3-1.mon.demandware.net-0-appserver-20210503.log
- c) custom-service-blade3-1.mon.demandware.net-0-appserver-20210503.log
- d) error-recaptcha-blade3-1.mon.demandware.net-0-appserver-20210503.log

How looks the code that generates this log file and content:

```
custom-service-blade3-1.mon.demandware.net-0-appserver-2021
0503.log
ERRORPipelineCallServlet|1726457216|Sites-RefArch-en-Site|H
ome-Show|PipelineCall|-zOfYSp7z4 custom.recaptcha []
Recaptcha validation failed.
```

- a) `var Logger = require('dw/system/Logger');`  
`Logger.getLogger('service', 'recaptcha').error('Recaptcha validation failed');`
- b) `require('dw/system/Logger').getLogger('service').error('Recaptcha validation failed');`
- c) `require('dw/system/Logger').getType('error').msg('Recaptcha validation failed');`
- d) `require('dw/system/Logger').getType('error').msg('Recaptcha validation failed', 'recaptcha');`

What service type will you select on BM while creating your service to integrate a REST API with encoded form data?

- a) SOAP Form
- b) HTTP
- c) HTTP Form
- d) REST

Which is the correct syntax for passing variable attributes to a log message?

- a) `Logger.warn('Content asset with ID {0} is offline', req.querystring.cid);`
- b) `Logger.warn('Content asset with ID ' + req.querystring.cid + ' is offline');`
- c) `Logger.warn('Content asset with ID ' + JSON.parse(req.querystring.cid) + ' is offline');`
- d) `Logger.warnWithParams('Content asset with ID {0} is offline', req.querystring.cid);`

Which of these topics are true about product bundles...

- a) Are a separate product with its own SKU and price.
- b) Are unaffected by the price of the individual products.
- c) You can not create a bundle within a bundle.
- d) None of these options.
- e) A and B are correct

After configuring the storefront catalog for your site... realize that one of your main categories is not displaying. What could be the reason?

- a) No search refinement definitions are defined for this category

- b) Products must be assigned to categories to be shown on the storefront.
- c) Categories must be online in order to be visible.
- d) B and C
- e) There are no sorting rules assigned to this category.

How would you find what file is having issues in a call that depends on multiple files and has a few includes?

- a) Business Manager > Administration > Site development > Development Setup. Access to the log center.
- b) Business Manager > Administration > Site development > Development Setup. Logs browser folder via WebDav.
- c) Merchant Tools > Site Preferences > Logs.
- d) A and B are correct.

How can you add locale-specific images for your site?

- a) Using custom preferences.
- b) Using custom objects.
- c) Using Business Manager Image Browser.
- d) Uploading image on cartridge static folder.
- e) C and D are correct

How can you replicate your sandbox custom preferences to staging and production instances?

- a) Do changes manually in staging and replicate to production.
- b) Data replication from your sandbox targeting production.
- c) Data replication from your sandbox targeting staging.
- d) Export your sandbox custom preferences and import them to staging and then data replication to production.
- e) A and C are correct
- f) A and D are correct

Is it possible to create custom steps for business manager administration jobs?

- a) Create a steptypes.json file that describes the job step and put the file in the root directory of the cartridge.
- b) Create a customsteps.json file that describes the job step and put the file in the root directory of the cartridge.
- c) Create a steptypes.xml file that describes the job step and put the file in the root directory of the cartridge.

- **d) A and C are both correct.**

Choose correct process to create a custom step job

- a) Create a cartridge, create a task oriented module, define a job step in steptypes.json file and upload the cartridge and include it on the cartridge path.
- b) Create cartridge, create chunk oriented common js script, define a job step in steptypes.xml file and upload the cartridge and include it on the cartridge path.
- c) Create a cartridge, create a task oriented module, define a job step in customsteps.json file and upload the cartridge and include it on the cartridge path.
- **d) A and B are correct.**

After doing the last modifications needed for the homepage you realise that your changes are not being reflected. What could be the reason?

- a) Quota limit reached.
- b) Code not uploaded to sandbox.
- c) Cache is enabled in your sandbox.
- d) Code not compiled.
- **e) A is false**

What is the correct class to create/instantiate a webservice in Salesforce B2C Commerce Cloud?

- a) ServiceRegistry
- **b) LocalServiceRegistry**
- c) HTTPService
- d) HTTPServiceRegistry

Your service needs to have a mock call configured for testing. How can you do it?

- a) Custom site preference with boolean value.
- b) Extend LocalServiceRegistry System object to add mock value.
- **c) Enable service mode Mocked and add mockCall attribute to ServiceCallback.**
- d) All answers are incorrect.

How can you handle service call exceptions?

- a) Implement parseException method in ServiceCallback.
- b) Add try-catch block in parseResponse method in ServiceCallback.
- **c) Call .setThrowOnError when calling the service to throw a JavaScript error if the result status is not OK**

- **d) Service call doesn't throw exceptions by default if you don't enable exception breaker on service profile config.**

Every time your customers log in your storefront a request using webservice framework is made to 3rd party application. What type of service should you implement in order to perform those requests in real time?

- **a) HTTP service type**
- **b) HTTP FORM service type**
- **c) A and B are correct.**
- **d) All answers are incorrect.**

What is the correct syntax to include content assets using a controller call?

- **a) ContentMgr.getContent(id : String) : Content**
- **b) AssetMgr.getContent(id : String) : Content**
- **c) Content.getAsset(id : String) : Content**
- **d) ContentMgr.getAsset(id : String) : Content**

Which modules can be used to display images on the storefront?

- **a) Content Slots**
- **b) Content Assets**
- **c) ISML template**
- **d) Content Library**
- **e) D is not correct**

What can you import at Merchant Tools > Content > Import & Export?

- **a) Catalogs, Pricebooks & Inventory lists**
- **b) Libraries**
- **c) Images, Content Assets and folders**
- **d) Customers, Libraries and Custom Objects.**

Which is the correct syntax to include a content asset inside the body of another content asset?

- **a) \$link-page:cid=ABOUT\_US\$**
- **b) \$include('Page-Show', 'cid', 'ABOUT\_US')\$**
- **c) \$url('Page-Show', 'cid', 'ABOUT\_US')\$**
- **d) \$httpUrl('Page-Show', 'cid', 'ABOUT\_US')\$**

Which is the correct syntax to use \$url\$ with parameters inside content assets?

- a) \$url(' <pipeline>' [, '<key1>', '<value1>', '<key2>', '<value2>', ...])\$
- b) \$url(' <pipeline>' [, 'cid', '<value1>'])\$
- c) \$url(' <type>[:key1=value1;key2=value2; ...])\$
- d) None of the above are correct.

Which is the correct syntax to use \$include\$ and what is the purpose of?

- a) \$include(' <pipeline>' [, '<key1>', '<value1>', '<key2>', '<value2>', ...])\$ - Can be used to include the result of another server call.
- b) \$include(' <pipeline>' [, '<key1>', '<value1>', '<key2>', '<value2>', ...])\$ - Calls the Link pipeline in the Reference Application to call pipelines.
- c) \$include(' <pipeline>' [, 'cid', '<value1>'])\$ - Can be used to include the result of another server call.
- d) \$include(' <type>[:key1=value1;key2=value2; ...])\$ - Calls the Link pipeline in the Reference Application to call pipelines.

In which situation would you use \$url\$ over \$include\$?

- a) When you need to create an absolute URL that retains the protocol of the outer request.
- b) When you need to include the result of another server call.
- c) When you need to create an absolute URL, but with the https protocol.
- d) When you need to create an absolute URL, but with the http protocol.

In the production instance you have two pricebooks and two catalogs from two different sites that need to be imported once a month. Which steps do you follow to import and build them?

- a) Create two jobs that will import the pricebooks, catalogs and rebuild indexes.
- b) Create one job with parallel flow that will import the pricebooks, catalogs and rebuild indexes for each site.
- c) Do it manually, because it is just once a month.
- d) Go to BM > Administrator > Site Development > Site import & Export and import the catalog and pricebooks.

In your site you have a master catalog with all products available for the current site, but not all of them are assigned to the storefront catalog. How would you do an export with just products assigned to the storefront catalog?

- a) Merchant Tools > Product & Catalogs > Import & Export > Export the storefront catalog for current site.

- **b) Merchant Tools > Online Marketing > Import & Export > Export the storefront catalog for current site.**
- **c) Administration > Site Development > Site Import & Export > Export Catalogs > Select storefront catalog for current site.**
- **d) A and C are both correct.**

You are about to perform a master catalog import in your sandbox. What kind of import mode will you execute in order to update the master catalog and add new products to the existing one?

- **a) UPDATE**
- **b) MERGE**
- **c) REPLACE**
- **d) B and C are correct.**

Which command would you run from package.json in order to compile all your code?

- **a) npm run build**
- **b) npm run compile**
- **c) npm run build:all**
- **d) npm run compile:all**

What kind of configurations are needed in order to extend the Business Manager?

- **a) Create needed extension points on the bm\_extensions.xml file.**
- **b) Create a custom cartridge and assign it on the Business Manager cartridge path (Administration > Sites > Manage Sites > Manage the Business Manager site > Cartridge Path).**
- **c) Business Manager can't be extended.**
- **d) Create a custom cartridge and assign it on the Business Manager cartridge path (Administration > Site Development > Development Setup > Cartridge Path).**

How can you export a function inside of a controller?

- **a) module.exports = server.exports();**
- **b) server.exports = module.exports();**
- **c) server.append = module.exports();**
- **d) server.get = module.exports();**

How can you retrieve a form named formName?

- **a) server.forms['formName']**



- **b) session.forms['formName']**
- c) A and B are both correct
- d) None of the above are correct.

What is the correct syntax to call the next method inside a controller?

- a) return next();
- **b) next();**
- c) this.emit('route:Complete', req, res); return;
- d) return;

Which methods can validate CSRF tokens?

- a) validateRequest();
- b) validateAjaxRequest();
- c) checkToken();
- **d) A and B are both correct**

What type of data do you send from a Controller to the view?

- a) JSON
- **b) Javascript Object**
- c) Javascript Function
- d) Middleware

What controller do you have to call if you need an anchor text to the homepage?

- a) Home-Start
- b) Homepage-Show
- c) Default-Start
- **d) Home-Show**

How can you override an existing controller in order to modify some values before current existing code is executed?

- a) Replace current controller and add needed logic using server.replace
- b) Appending needed data with server.append
- c) Create a new controller and implement needed behaviour.
- **d) Prepending needed data with server.prepend**

What is the correct syntax to render a template inside a Controller?

- **a) res.render('home/homePage');**
- b) require('dw/template/ISML').renderTemplate('home/homePage');

- c) `response.renderTemplate('home/homePage');`
- d) `ISML.renderTemplate('home/homePage');`

What is the purpose of the keyword `superModule` in the SFRA controller context?

- a) Inherits the existing server object and extends it with a list of new routes from the super module.
- b) Allows the middleware chain to inherit parent controller functionality.
- c) Imports functionality from the first controller with the same name and location found to the right of the current cartridge on the cartridge path.
- d) B and C are both correct.

How can you check the time a controller needs to perform some request?

- a) By adding in the current controller the profiler class to track spend times.
- `require('dw/system/Profiler').start()` and `require('dw/system/Profiler').stop()`
- b) Using code profiler in Business Manager.
- c) Using the script debugger.
- d) Adding `setTimeout` JS function inside the controller.

How can you send data from the Controller to the rendered view?

- a) `response.setData({...});`
- b) `res.setViewData({...});`
- c) `res.render('...', {...});`
- d) `res.setData({...});`
- e) B and C are correct

Check this code and determine why `viewData` can't be debugged:

```
server.get('HelloWorld', function(req, res, next) {
    viewData = res.getViewData();
    ...
});
```

- a) `viewData` can't be debugged.
- b) `viewData` just should be retrieved by calling `res.getData();`
- c) `viewData` is not declared.
- d) B and C are both correct.

In which scenario would you use Pipeline Profiler against Code Profiler?

- a) When you need to test the performance of a specific Controller.

- **b) When you are testing the performance of the whole Site and trying to identify bottlenecks.**
- **c) You can use both for the same purpose. The unique difference is the way how results are shown.**
- **d) When you need to test the performance of jobs.**

On the storefront the user address being displayed is incorrect, it belongs to another customer. How to investigate the root cause?

- **a) Check application logs.**
- **b) Add breakpoints in JS files**
- **c) Adding Logging to Your Scripts**
- **d) All the above are correct.**

You have a form used in site A. For your site B you're using the same form but you need to change a form label. How can you do it?

- **a) Create a new ISML file.**
- **b) Create a new FORM with a new label.**
- **c) Create a new property file with a custom label for site B.**
- **d) Overwrite forms.properties file with new label.**

What is the folder hierarchy where locale files should be placed for forms to be used by multiple locales or countries.

- **a) resources/templates/\*.properties**
- **b) templates/default/\*.properties**
- **c) templates/resources/\*.properties**
- **d) resources/forms/\*.properties**

How can you include different address fields, such as state or province, depending on the country for your site forms? You can create different form definitions for each locale... but in which folder hierarchy?

- **a) cartridge/templates/resources/forms/\*.xml**
- **b) cartridge/forms/default/\*.xml**
- **c) cartridge/resources/forms/\*.xml**
- **d) cartridge/templates/resources/forms.xml**

Salesforce B2C Commerce forms can have validations by

- **a) Attributes**
- **b) Form Groups**

- c) Functions
- d) Form Actions
- A and B are correct
- **A and C are correct**

Storefront user is trying to submit a form but nothing is happening and data is not submitted. What is the reason? Choose all answers that apply.

- a) No action attribute.
- b) Validation failing.
- c) CSRF validation failed.
- d) Transaction failed on controller action.
- **e) All answers are correct**

File types accepted to import data in a sandbox instance? Choose all answers that apply.

- a) JSON
- b) CSV
- c) XML
- d) YAML
- **e) B and C are correct**

Select the correct syntax about how to use <isprint> tag.

- a) <isprint value="{dict.numbers}" style="INT" />
- **b) <isprint value="{dict.numbers}" />**
- c) <isprint value="{dict.numbers}" encoding="false" />
- d) <isprint value="{dict.numbers}" formater="INTEGER" />

Given this piece of code, how can you access it inside the loop? <isloop

items="{dict.listOfItems}" status="status" var="variable">

- a) {dict.variable}
- b) {status}
- **c) {variable}**
- d) {listOfItems[status.index]}

What is the purpose of the <isif> tag?

- a) Anything enclosed in an <isif>... </isif> structure isn't parsed by the template processor and doesn't appear in the generated storefront page.
- b) With <isif> you can loop through the elements of a specified iterator.

- c) The <isif> tag outputs the result of expressions and template variables.
- d) The <isif> tag group lets you create conditional programming constructs using custom tags.

Select ISML tag or tags that allows you to reuse code in your templates.

- a) <isinclude>
- b) <isloop>
- c) <isdecorate>
- d) <iscontent>
- e) A and D are correct
- f) A and C are correct

What salesforce tag is the best way to debug on ISML?

- a) <ismodule>
- b) <isdebug>
- c) <iscontent>
- d) <isprint>

Inside a job flow... how can you do that a job step returns a flag to be used by next job steps?

- a) On BM enable exit status rules.
- b) Create script with return new Status(Status.OK);
- c) Create script with return new StatusFlag(Status.OK);
- d) Create script with return new Status(Status.OK, 'OK');
- e) B and D are correct

For your current site you have multiple locales defined. You're checking PDP in order to check product description. What happens when a certain locale is not found?

- a) No description is shown.
- b) Error message is shown.
- c) Description is shown in fallback locale if configured.
- d) A and C are both correct.

What is the best way of making use of CSRF token in your templates?

- a) Add <isscript> tag in ISML to generate that token.
- b) Add snippet csrfProtection.generateToken as a middleware in the controller.
- c) Require CSRFProtection class in the controller and send token calling generateToken() via viewData.

- d) Business Manager protects your ecommerce against CSRF attacks. No action is needed.

Best practice about how you should restrict access to a certain page only for logged users?

- a) Checking `customer.authenticated` property and rendering new template if false.
- b) Checking `session.userAuthenticated` property and rendering new template if true.
- c) Adding `userLoggedIn.validateLoggedIn` in controller middleware chain
- d) Checking `customer.userAuthenticated` property and rendering new template if false.

Correct syntax about how to use `<isslot>` tag. Select all answers that apply.

- a) `<isslot id="banner-m" description="Slot description" context="catalog" />`
- b) `<isslot description="Slot description" context="global" />`
- c) `<isslot id="banner-m" description="Slot description" context="global" />`
- d) `<isslot id="banner-m" context="category" description="Slot description" context-object="{pdict.category}" />`
- e) C and D are correct

What is the purpose of this piece of code:

```
<isinclude template="/components/modules" sf-toolkit="off" />
```

- a) It adds to the current template the modules isml.
- b) Allows you to use custom tags in the current template.
- c) Adds cache for current template modules.
- d) Allows you to add CSRF protection module in the current template

Select correct syntax to include

`cartridge/templates/default/content/components/mytemplate.isml` file from a controller:

- a) `ISML.renderTemplate('cartridge/templates/default/content/components/mytemplate.isml')`
- b) `ISML.renderTemplate('content/components/mytemplate.isml')`

- c)  
ISML.render('cartridge/templates/default/content/components/mytemplate.isml')
- d) res.render('default/content/components/mytemplate.isml')

Correct syntax for ISML.renderTemplate:

- a) ISML.renderTemplate('template/home');
- b) ISML.renderTemplate('template/home', 'data', 'value');
- c) ISML.renderTemplate('template/home', {data : 'value'});
- d) ISML.renderTemplate('template/home', ['data': 'value']);
- e) A and C are correct

Why should you use ProductSearchHit.getRepresentedVariationValues() instead of ProductMgr.queryAllSiteProducts() ?

- a) ProductSearchHit is the result of an executed search query and allows you to access products without having to access the database.
- b) Because the ProductMgr.queryAllSiteProducts() method doesn't exist anymore. It's deprecated.
- c) ProductMgr.queryAllSiteProducts() will throw quota errors.
- d) None of the above are correct.

Why should you use ProductSearchModel.orderableProductsOnly(flag) instead of Category.getProducts() ?

- a) Category.getProducts() will throw quota errors.
- b) Because the Category.getProducts() method doesn't exist anymore. It's deprecated.
- c) ProductSearchModel.orderableProductsOnly(flag) takes advantage of search index.
- d) A and B are both correct.

Select correct syntax for URLUtils.url

- a) URLUtils.url('Home-Show', 'data', 'value');
- b) URLUtils.url('Home', 'Show', 'data', 'value');
- c) URLUtils.url('Home-Show', {data: 'value'});
- d) URLUtils.url('Home-Show', ['data': 'value']);

For site with en\_CA locale which resource message will be displayed given this piece of code `<isprint value="${Resource.msgf('weight.unit', 'account', null, '10')}" />` and this values on properties files:

```
account.properties → weight.unit={0} kilos
account_en.properties → weight.unit={0} stones
account_en_US.properties → weight.unit={0} pounds
```

- a) 10 kilos
- b) 10 stones
- c) 10 pounds
- d) null stones

Given this piece of code what should be the expected output?

```
server.append('Show', function(req, res, next) {
    res.render('components/landing1');
});
```

- a) landing1.isml will be shown.
- b) nothing will be rendered.
- c) components/landing1 will be shown depending on the parent controller.
- d) A and C are both correct.

Select best practices you can do in order to improve page load speed.

- a) Reduce the number of HTTP requests. Enable cache.
- b) Minify and compress JS and CSS.
- c) A and B are both correct.
- d) Enable HTTP2 and HTTPS in Business Manager.

What do you need to include inside the body of a content asset to create a link to a page with id `pageId`?

- a) `URLUtils.url('Page-Show', 'cgid', 'pageld')`
- b) `$URLUtils.url('Page-Show', 'cid', 'pageld')$`
- c) `$url('Page-Show', 'cid', 'pageld')$`
- d) `$url('Page-Show', 'id', 'pageld')$`

Which code snippet will create a link to a content inside of the body of a content asset?

- a) `$url('Content-Show', 'cid', 'pageld')$`
- b) `$httpUrl('Page-Show', 'cid', 'pageld')$`
- c) `httpsUrl('Page-Show', 'cid', 'pageld')`



- **d) All options are correct**

After finishing current development, the tech lead realizes that current code works as expected but it can generate a potential threat in future. Developer decides to log the code, but under what kind of logger it should be done?

- **a) Logger.info**
- **b) Logger.warn**
- **c) Logger.error**
- **d) Logger.debug**

What are the steps you must follow in Business Manager to import a new Catalog for Site A.

- **a) Select Site A > Merchant Tools > Products and Catalogs > Import & Export > Upload and then import the catalog.**
- **b) Select Site A > Merchant Tools > Content > Site Import & Export > Upload and then import the catalog.**
- **c) Administration > Site Development > Site Import & Export > Upload and then import the catalog.**
- **d) A and C are both correct.**

A user has received admin access to a SFCC sandbox with no data. He updated the cartridges but when he clicks on the storefront url a 404 page shows. How to fix the issue?

- **a) Site Import to import Storefront Reference Architecture Demo Sites.**
- **b) Clear site cache**
- **c) Site Reindex**
- **d) Site Import and import exported data from development instance.**

What three pieces of information do you need when you want to establish a new Digital Server Connection?

- **a) hostname, username and password**
- **b) hostname, cartridges and certificate**
- **c) username, password and cartridges**
- **d) hostname, username and code version**

How can you stop quota violation?

- **a) Modifying the code**
- **b) Ticket to Salesforce**

- c) Deactivate violation in Business Manager. Administration > Operations > Quota Status
- d) Deactivate violation in Business Manager. Administration > Global Preferences > Quota Status

What is the correct syntax to invalidate the addressId field from addressForm?

- a) `addressForm.invalidateFormElement = true;`
- b) `addressForm.invalidateFormElement('addressId');`
- c) `addressForm.addressId.invalidateFormElement();`
- d) `forms[addressForm].invalidateFormElement('addressId');`

What is the best way to add another action to your form to be validated properly in SFRA Controller?

- a) Edit form isml file to modify form action endpoint.
- b) Edit form xml file to add new action property.
- c) Edit form property file to add different labels.
- d) Edit form xml file to add new field property.

Your client asks for a new feature. He needs for internal purposes to store some data during the whole checkout process. In which object would you save this data?

- a) session object
- b) request object
- c) page object
- d) checkout object

You have been requested to add a German locale to your current Site. After doing that on Business Manager what should be the resource property file for this language?

- a) `templates/resources/storefront_de.properties`
- b) `templates/de/resources/storefront_de.properties`
- c) `templates/de/resources/storefront.properties`
- d) `resources/templates/ge_storefront.properties`

The Account controller is trying to validate a CSRF protection request but after debugging you realize that the result of this validation is always false. What is the root cause?

- a) CSRF protection disabled in Business Manager
- b) Account form doesn't have a security attribute in the xml file.
- c) CSRF check should be inside try/catch block code.

- **d) CSRF token is not submitted in the form.**

A developer notices that some key attributes of the products are missing. He has all the import files. What should he import to fix it?

- **a) Meta Data**
- **b) Global Custom Objects**
- **c) Source Codes**
- **d) Catalogs**

You have developed a new template that shows different information depending on the current customer group. What is the best way to test all scenarios before pushing your code to the master branch to initiate deployment?

- **a) Add manually your user to each customer group every time you need to test it.**
- **b) Add a request parameter to indicate which customer you need to test and modify controller behavior.**
- **c) Use the site preview settings option on Business Manager. Administration > Code Profiler.**
- **d) Make use of the Site Preview Settings for Storefront Toolkit and select the customer group you need to test.**

Select all available options that Storefront Toolkit has to make it easier to test your site.

- **a) Site preview settings**
- **b) Search indexes**
- **c) Page Designer settings**
- **d) Cache info**
- **e) A and D are correct.**

You have a global content slot configured for your site. You need to display the most popular products. What content type inside content slot configuration is needed to achieve it?

- **a) Content Asset**
- **b) HTML**
- **c) Einstein products**
- **d) Recommendation**

A developer suspects that there is an error inside code while checking on a production instance. What should he do?

- a) Check request log to validate the existence of the logical error.
- b) Set breakpoints, debug and check the values of variables against production.
- c) Import data in his own sandbox and upload the same code version as installed on production to reproduce the error.
- d) Enable debug mode in Business Manager of production instance to check error existence.
- e) A and C are correct.

How can you improve the performance of 3rd party API REST that your commerce site is requesting?

- a) By implementing `dw.net.HTTPClient` class in your code.
- b) By implementing `dw.svc.HTTPService` class in your code.
- c) By using service integration and increasing waiting time for API calls.
- d) None of the above are correct.

What of these Techniques are used for Improving Site Performance?

- a) Using GET vs. POST Requests.
- b) Make Fewer and Smaller HTTP Requests.
- c) Reduce the Size and Number of Cookies.
- d) Expires and Conditional Headers.
- e) All answers are correct

What is the optimized way to retrieve products from a specific category?

- a) `Category.getProducts();`
- b) `ProductSearchModel.productSearchHits`
- c) `CategorySearchHit.getProducts();`
- d) `CategoryMgr.getMainProducts();`

Where can you configure Allowed Origins for OCAPI requests?

- a) By adding the Origin header on the request with the domain name.
- b) On Business Manager. Administration > Site Development > Open Commerce API Settings. Select site and add `allowed_origins` in the text field.
- c) On Business Manager. Administration > Site Development > Open Commerce API Settings. Select site and add `Access-Control-Allow` in the text field.
- d) By adding the domain name on Site preferences.

What is the best way to update and retrieve Salesforce B2C Commerce data from 3rd party OMS?

- a) Job
- **b) OCAPI**
- c) CSV file
- d) XML file

Is it possible to check OCAPI requests your site has received?

- a) Yes, by checking logs
- b) Yes, by using Pipeline Profiler
- **c) Yes, by using Code Profiler**
- d) No, it's not possible.

Which HTTP methods are available on OCAPI calls?

- a) GET, PATCH, OPTIONS, DELETE
- b) POST, GET, DELETE, TRACE
- c) POST, GET, PUT, CONNECT
- **d) GET, POST, PUT, DELETE**

resource\_id settings on OCAPI requests allows you to...

- a) to control which properties are included in the response document.
- b) specify the time period in seconds before the response document becomes stale.
- **c) identify which API resource you are requesting.**
- d) specify which operation you want to perform (GET/POST/DELETE...)

What configuration is needed in the Business Manager to use OCAPI?

- a) token\_id, resource\_id and read\_attributes
- b) resource\_id, read\_attributes and bearer\_token
- c) resource\_id, read\_attributes and oauth\_token
- **d) client\_id, resource\_id and read\_attributes**

How can a developer retrieve selected products and process them from an iPhone without using JavaScript controllers?

- **a) Use native code to call OCAPI**
- b) Use import/export in Business Manager
- c) FTP
- d) WebDav

What type of data format for resources are allowed by the Open Commerce API?

- a) CSV
- b) JSON
- c) XML
- d) TXT
- e) B and C are correct.

If the developer has a sandbox with the hostname test.demandware.net, which URL can be used for OCAPI requests?

- a) `http(s)://test.demandware.net[/s/site_id]/dw/api_type/`
- b) `http(s)://test.demandware.net/s/site_id/dw/api_type/`
- c) `http(s)://test.demandware.net/s/site_id/client_id/api_type/`
- d) `http(s)://test.demandware.net/s/site_id/d/s/api_type/`

Which OCAPI hook is used to modify post Basket response?

- a) `dw.ocapi.shop.basket.beforePOST`
- b) `dw.ocapi.shop.basket.afterPOST`
- c) `dw.ocapi.shop.basket.modifyPOSTResponse`
- d) `dw.ocapi.shop.basket.validateBasket`

Developer investigated and found that the call center using OCAPI has delivery issues because the address validation is not the same as configured on the storefront. How do you fix this issue?

- a) Expose the validation to be called from the call center.
- b) Implement the same validation on the call center system.
- c) Hook in to the "before" method.
- d) Manually validate orders at the post office.

What do all these resources InventoryListSearch, InventoryLists, ProductInventoryRecords, ProductSearch have in common?

- a) All of them can be found under the dw.catalog package.
- b) Are available under new Salesforce Commerce API
- c) They can be found on Open Commerce API.
- d) None of the above are correct.

## Topic: B2C Commerce Setup

How can you limit service calls for error and success calls?

- a) Add necessary configuration on ServiceDefinition object for ServiceRegistry definition.
- b) Business Manager > Administration > Operations > Services and Enable service rate limit.
- c) Business Manager > Administration > Operations > Services > Profile and Enable service rate limit.
- d) Business Manager > Administration > Operations > Services > Profile and Enable circuit breaker.

A product is assigned to the apparel-m-catalog but not being displayed on the storefront. What could be the main reason?

- a) Product without stock
- b) apparel-m-catalog not assigned to current site.
- c) Product not assigned to a category.
- d) A and C are both correct.

What should be the correct cartridge path if you want to add some extra data in the Checkout-Begin controller?

- a) app\_storefront\_base:app\_storefront\_custom:int\_cybersource\_sfra
- b) app\_storefront\_base:int\_cybersource\_sfra:app\_storefront\_base
- c) int\_cybersource\_sfra:app\_storefront\_base:app\_storefront\_custom
- d) app\_storefront\_custom:int\_cybersource\_sfra:app\_storefront\_base

Is it possible to share customer lists between sites?

- a) No, it's not possible.
- b) Yes, but you must open a ticket to support the team.
- c) Yes, go to Business Manager. Administration > Manage Sites > Select Site > Select desired customer List on the dropdown list.
- d) B and C are both correct.

How can you make it possible that two sandboxes from the same realm will have the same metadata?

- a) Remote import from production
- b) Site export from one sandbox and site import from the other.
- c) Pushing metadata via WebDAV
- d) Go Control Center and replicate data from sandbox1 to sandbox2

Client asks you to add a new locale for your current site. How can you do it?

- a) **Business Manager > Administration > Locales**
- b) **Business Manager > Administration > Global preferences > Locales**
- c) **Business Manager > Merchant Tools > Select Site > Site Preferences > Locales**
- d) **B and then C**

You have a site being used mostly by Europe but also is used in the United Kingdom. What should be the default currency?

- a) **Euro**
- b) **Pound**
- c) **Multi-Currency**
- d) **None**

A site is defined with a tax table as NET but you want to change it to GROSS. How can you do it?

- a) **Create a new site with GROSS taxation.**
- b) **Modify Storefront preference to change it to GROSS**
- c) **Edit Taxation System Object.**
- d) **Business Manager > Administration > Manage Sites > Select Site and change taxation.**

You created a new template for my account and needed to add new custom data to the view, your cartridge name is app\_storefront\_custom. How should the cartridge path look?

- a) **app\_storefront\_base:int\_smarty\_streets:int\_paypal:app\_storefront\_custom**
- b) **app\_storefront\_base:app\_storefront\_custom:int\_smarty\_streets:int\_paypal**
- c) **app\_storefront\_custom:app\_storefront\_base:int\_smarty\_streets:int\_paypal**
- d) **app\_storefront\_custom:int\_smarty\_streets:int\_paypal:app\_storefront\_base**

A developer uploaded code to a code version, but the code is not working, what might be the reason?

- a) **Wrong code version activated**
- b) **Wrong connection details in dw.json**
- c) **500 Error. Check sandbox logs**
- d) **All the above are correct.**



A site has been exported from the staging instance. How can developers from the same realm import the exported site?

- a) Check if staging export is set as global to directly import it from sandbox.
- b) Do a remote export by connecting to staging instance.
- c) A and B are correct.
- d) In Staging instance under Administration > Replication > Data Replication > Create new replication targeting to sandboxes.

Italy is added as a new country where you can proceed with a checkout on your site.

What should be done to set the tax for this new country?

- a) In Business Manager: Select Site > Ordering > Taxation > Add new Tax Class
- b) In Business Manager: Select Site > Ordering > Taxation > Add new Tax Jurisdiction
- c) In Business Manager: Select Site > Ordering > Taxation > Add new Tax Rate for Italy
- d) No action is needed if Italy has the same taxation as other countries.

A client wants to change his site taxation option from Gross to Net for existing site.

What should he do?

- a) Change taxation preference in Storefront Configs.
- b) Delete the site and create a new one.
- c) Enable at global level the preference to update taxation
- d) Open Ticket to Salesforce support.

The client requested you to add unlimited stock for selected products because it is black Friday. How should the developer perform this task?

- a) Update product inventory and set availability to always.
- b) Update product inventory and set stock level to infinite.
- c) Update product inventory and set allocation to true.
- d) Update product inventory and set perpetual to true.

## Topic: Data management using business manager usage

Which log messages will be logged on a log category if the log level for this category is set to WARN on Business Manager?

- a) **WARN, FATAL and ERROR in all instances except production.**
- b) **WARN, DEBUG, FATAL and ERROR.**
- c) **WARN, INFO, DEBUG and ERROR.**
- d) **None of these options.**

If you set your logs root level to WARN what kind of logs will be generated?

- a) **WARN, FATAL and ERROR.**
- b) **DEBUG, WARN, ERROR and FATAL.**
- c) **ERROR and FATAL**
- d) **ERROR and above.**

After spending some time investigating a weird behavior in your storefront, you realize that some components of the website are not up to date with the latest content in BM. How can you check the time cache for those components?

- a) **Check the cache time applied for current controller rendering html.**
- b) **Use the storefront toolkit to debug element caches.**
- c) **All components rendered in every url have the same cache period.**
- d) **Go to Business Manager > Administration > Operations > Custom Caches.**

How can you limit service calls in Business Manager?

- a) **Enable circuit breaker in service profile.**
- b) **Enable rate limit in service profile.**
- c) **Activate Force PRD Behavior**
- d) **Set connection Timeout higher than 0 ms**

Where should you save username and password to be used on service in Service Framework?

- a) **Custom preference on System preferences.**
- b) **In the JSON config file.**
- c) **Service credentials for current service.**
- d) **Create Custom Attributes for Web Services to save it.**

During weekly service inspection it was found that the service has lots of unavailable calls, how do you fix this?

- a) Increase connection service timeout on service profile.
- b) Enable circuit breaker in service profile.
- c) Enable rate limit in service profile.
- d) Add a try-catch code block to handle these calls.

Is it possible to create cache partitions in order to invalidate cache for some pipelines together?

- a) No, each Pipeline has its own cache and there is no guarantee that some of them invalidates at the same time.
- b) Go to Business Manager > Administration > Manage Sites > Site > Cache. Under the cache tab, add a new partition and add desired pipelines.
- c) Go to Business Manager > Merchant Tools > Site > Site Preferences > Cache. Under the cache tab, add a new partition and add desired pipelines.
- d) Go to Business Manager > Administration > Operations > Custom Cache. Add a new partition and add desired pipelines.

You need to store customer comments for the orders. Where should you save those comments?

- a) Customer System Object
- b) Order System Object
- c) Comments Custom Object
- d) System Transaction

You create a new custom attribute but it is not being displayed in the edit page of the object. What could be wrong?

- a) Custom attributes with value type "Set of Strings" are not displayed.
- b) You forgot to add it to the grouping tab in the object definition.
- c) Custom attribute not localizable.
- d) Wrong code version

What is the correct syntax to create a Custom Object?

- a) CustomObjectMgr.createCustomObject(type : String, keyValue : String) : CustomObject
- b) CustomObject.createCustomObject(type : String, keyValue : String) : CustomObject
- c) SystemObject.createObject(type: String, keyValue : String): SystemObject | CustomObject
- d) Object.create('custom', type: String, keyValue : String): Object

Given this controller code, figure out what would be the result:

```
var email = req.querystring.email;
var name = req.querystring.name;

var newsletter =
CustomObjectMgr.createCustomObject('NewsletterSubscription'
, email);
newsletter.custom.name = name;
newsletter.custom.year = (new Date()).getFullYear();

next();
```

- a) NewsletterSubscription custom object created.
- b) NewsletterSubscription custom object created with null year attribute.
- c) Error will be thrown, because custom object creation must be inside Transaction.
- d) Error because “return” keyword is mandatory.

What is the purpose of Shared Libraries?

- a) Share a Library between instances.
- b) Share a Library between realms.
- c) Share a Library between environments.
- d) Share a Library between sites.

What should be added in the OCAPI configuration attributes to allow updating Shop Data in our Site?

- a) read\_attributes
- b) write\_attributes
- c) resource\_id
- d) methods

How can you create custom Search Refinements?

- a) In Business Manager, Merchant Tools > Catalogs > Edit Storefront Catalog assigned to site > Edit category where you want to add search refinements and click “Search Refinements Definition” tab.
- b) In Business Manager, Merchant Tools > Catalogs > Edit master catalog > Click on the “Administration Catalog Preferences” tab and create new refinements.

- c) Custom search refinements are not allowed, you must enable pre configured system search refinements.
- d) A and B are both correct.

Your site is experiencing this behavior... Search refinements are working for a subcategory but not for parent category. How can this issue be fixed?

- a) Duplicate the custom search refinement for both categories (parent and subcategory)
- b) Navigate to Search > Search Indexes, and rebuild your product search index.
- c) Edit Bucket Type of search refinement values to allow parent category.
- d) Add desired custom search refinement to the parent category.

Select correct steps to add a new sorting rule.

- a) In Business Manager, Merchant Tools > Search > Sorting Rules > Create new one
- b) In Business Manager, Merchant Tools > Search > Storefront Sorting Options > Create new one.
- c) In Business Manager, Merchant Tools > Online Marketing > Sorting Rules > Create new one
- d) A and B are both correct.

The customer is searching for sports products (running, hiking, etc). How to add a filter for that?

- a) Create custom preference
- b) Create custom product attribute. And create a new search refinement.
- c) Create a new storefront category and assign products to the new category.
- d) B and C are both correct.

When the client searches for car accessories you want results including just car accessories, excluding tech accessories and other. Which search dictionary utilities should you use to achieve that?

- a) Synonym Dictionary
- b) Hypernym Dictionary
- c) Common Phrase Dictionary
- d) Compound Word Dictionary

For your Site needs you added a new custom attribute “madeIn” for your products. Your goal is that users can find products that were made in some countries... so, you need to make this custom attribute searchable. How should you proceed?

- a) When creating the custom attribute, select the Searchable option.
- b) When creating the custom attribute, select the Localizable option.
- c) In Business Manager, Merchant Tools > Search > Searchable Attributes.
- d) In Business Manager > Administration > Operations > Searchable Attributes.

How should a developer optimize inefficient product querying?

- a) By minimizing post-processing using a refinement instead.
- b) By enabling search cache.
- c) Following Pipeline Profiler recommendations
- d) None of the above are correct.

A developer sees that product tiles are getting cached for a short time. What will be the steps required to debug this error?

- a) Enable caching information in storefront toolkit.
- b) Enable template debugger and see if producttile.isml has a cache time which is lower.
- c) Check logs
- d) Check Cache time in Site settings in Business Manager.
- e) A and D are both correct

How can a developer debug code to find the root cause for a logical error? Select all answers that apply.

- a) Check logs in Business Manager.
- b) Put debug breakpoints in code and debug.
- c) Take a look at the Log Center.
- d) Take a look at the Control Center.
- e) All are correct except D

Merchant wants to control service timeout, how to accomplish this?

- a) Configure the service timeout as a new site preference.
- b) In the service profile update the connection timeout field.
- c) Configuration JSON file.
- d) None of the above are correct.

What are the steps needed to enable debug logging in Business Manager?

- **a) Administration > Operations > Custom Log Settings > Enable DEBUG.**
- **b) Answer A but only applies to Sandboxes and Development instances.**
- **c) Log Center > Settings > Enable Debug Logging.**
- **d) A and C are both correct.**

A sellable field is needed for a Product System Object. What is the current syntax to access this field?

- **a) prod.sellable**
- **b) prod.extensible.sellable**
- **c) prod.custom.sellable**
- **d) prod.persistent.sellable**

A developer wants to add a searchable attribute to a product. Incremental index is enabled. What are the steps needed? Select all answers that apply.

- **a) Add attribute to search index. Rebuild search index.**
- **b) Make attribute searchable. Add attribute to search index.**
- **c) Make attribute searchable. Wait for incremental index.**
- **d) Make attribute searchable. Rebuild search index.**
- **e) C and D are both correct**

Customer needs to add a Material Type attribute to the Product System Object. This attribute needs to be predefined by the merchandising team. Which type should you use?

- **a) String**
- **b) Integer**
- **c) Enum of String**
- **d) Set of String.**

Customer wants to add a new model attribute to a product. The text should be localized. How should he do it?

- **a) Add the new custom attribute as localizable.**
- **b) Use resources to update the text**
- **c) Add the new custom attribute as searchable.**
- **d) None of the above are correct.**

## Topic: Work with a B2C site

What is the most efficient way to search for a content asset when a customer is performing a search in your storefront?

- **Class ContentSearchModel**
- **Class ContentMgr**
- **Class Content**
- **Class ContentAssetMgr**

You need to modify a content slot to display different content for a specific customer group, how can you do it?

- **a) Create a new content slot and add a conditional in the isml to display different ones according to the current customer group.**
- **b) Edit the content assets assigned to the content slot and specify the customer group where it should be displayed.**
- **c) Enable different content slot configurations and assign different schedules in order to add Customer group qualifiers.**
- **d) Edit content assets qualifiers assigned to slot configuration and add Customer group.**

Where should catalog product images be uploaded?

- **a) Salesforce B2C Commerce Image Storage**
- **b) External image management system. Update image URL reference on catalog.**
- **c) A and B are both correct.**
- **d) None of the above are correct.**

When using Page Designer, how can you exclude certain components to be used inside certain pages/layouts?

- **a) component\_type\_exclusions**
- **b) attribute\_definitions**
- **c) attribute\_definition\_groups**
- **d) region\_definition\_excluded\_components**

How to restrict certain payment methods to certain countries?

- **a) Merchant Tools > Select Site > Ordering > Payment Methods > Select Payment method edit and choose countries where this payment method is available.**



- **b) Merchant Tools > Select Site > Ordering > Payment Methods > Select Payment method edit and choose countries where this payment method is not available.**
- **c) Administration > Operations > Payment processors > Countries exclusions**
- **d) Merchant Tools > Select Site > Ordering > Payment Processors > Select Payment method edit and choose countries where this payment method is available.**

How can you have a Gift certificate with infinite balance?

- **a) Merchant Tools > Site > Online Marketing > Gift Certificates and create new ones with "no limit" amount.**
- **b) Merchant Tools > Site > Online Marketing > Gift Certificates and create new ones with "no limit" balance.**
- **c) Administration > Global Preferences > Gift Certificates > Enable no limit amount. Then follow steps as described in answer A.**
- **d) It can't be done.**

Is it possible to modify content slot type to product from recommendation?

- **a) No, after the recommendation slot is set, Einstein takes care of the behavior.**
- **b) No, you must create a new one and specify the new content slot id in the ISML.**
- **c) Yes, edit the content slot and change the content type to product.**
- **d) Yes, you must open a ticket to salesforce support to enable the possibility to change content type to product.**

What should you do to disable Apple Pay in Spain?

- **a) Go to Ordering > PaymentMethods**
- **b) Go to Ordering > PaymentProcessors**
- **c) A and B are both correct.**
- **d) None of the above are correct.**

How can you create a product bundle?

- **a) By importing a new catalog in xml format.**
- **b) Edit products you want to add to the bundle and under the Bundles tab assign them to the Bundle.**
- **c) Create a new product and under the Bundles tab assign the products included in this bundle.**
- **d) A and C are both correct.**

What are the main differences of using Page Designer or content slots for creating a page?

- a) Campaigns can be used with Page Designer but now with slots
- b) Promotions can be used with slots but not with Page Designer
- c) Schedule can be set for slots but not for Page Designer
- d) All the above are false.

You are given a task of storing some info during the checkout. The value has to be automatically exported together with order. How should the developer proceed?

- a) Store the value in a Custom Object.
- b) Store the value in Checkout System Object.
- c) Store the value in Order System Object.
- d) Store the value on session and create a job to export orders.