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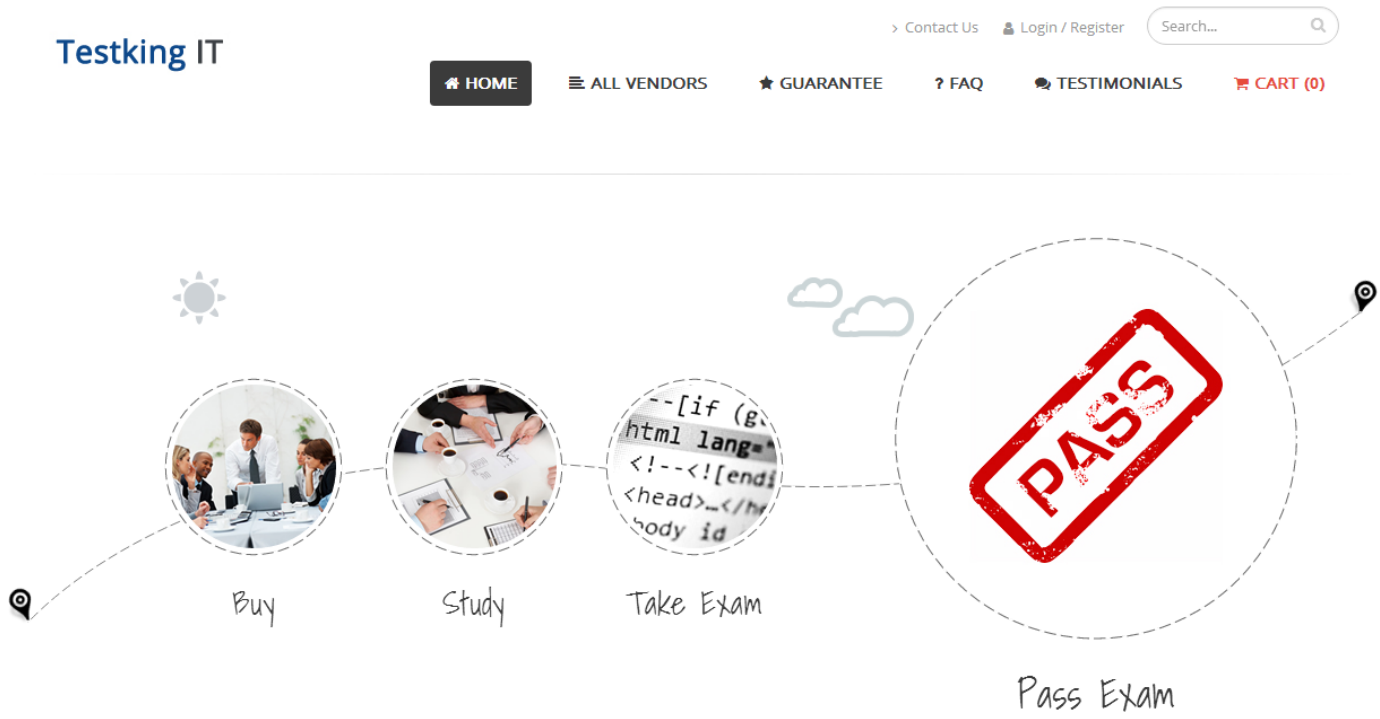

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Exam : MB2-498

Title : Extending Microsoft CRM 3.0

Vendors : Microsoft

Version : DEMO

NO.1 You need to build some custom validation code that will force Microsoft CRM users to enter values in
certain fields of an oppportunity once its CloseProbability exceeds 50%. If a user fails to enter appropriate
data an error message displays, and they are prevented from saving the opportunity. How can you
achieve this? Choose the 2 that apply.
A. Use a Post-Callout.
B. Use a Pre-Callout.
C. Use client-side Java script.
D. Use a workflow assembly.
Answer: BC

NO.2 You are writing a Post-Callout which updates Microsoft CRM data via the CrmService web service.
How can you ensure that the updates are made using the context of the user whose changes caused the
callout to run?
A. Create a parameter of datatype caller. Read the data in the userid XML element of the data passed to
this parameter, and assign it to the CallerIdValue of the CrmService object.
B. Read the user information from UserId property of the userContext parameter. Assign this value into
the CallerIdValue of the CrmService object.
C. Read the user information from UserId property of the userContext parameter. Create a new instance
of the NetworkCredential class using the UserId, and assign this credential to the Credentials property of
the CrmService object.
D. Create a parameter of datatype caller. Read the data in the userid XML element of the data passed to
this parameter, and assign this credential to the Credentials property of the CrmService object.
Answer: B

NO.3 You work for an international organization that, for security and localization reasons, has several
Microsoft CRM servers. You have developed a workflow assembly that is intended to be

deployed to all
the Microsoft CRM servers. The assembly has a strong name. Some of the CRM servers will already
have workflow assemblies that are specific to that server. What steps should you take to deploy the
assembly with the minimum of effort?
A. For each server, update their workflow.config file with the method definitions in your assembly.
Copy the assembly to the assembly directory within Microsoft CRM.
B. Create a workflow.config file which contains all the required configuration. Replace each server's
workflow.config file with your workflow.config file.
Copy the assembly to the assembly directory within Microsoft CRM.
C. Create a file <YourAssembly>.workflow.config which contains all the required configurations. For each
server, add this to the directory which contains the workflow.config file.
Copy the assembly to the assembly directory within Microsoft CRM.
D. Install the assembly into the Global Assembly Cache on each server.
Answer: A

NO.4 You are creating custom web pages that extend Microsoft CRM contact functionality, using the
Microsoft CRM web service. You want your web pages to reflect any changes made to the Microsoft CRM
entity and attribute display names. How should you do this, with the minimum of additional development
work?
A. Read the display names from the Microsoft CRM web service MetadataService.
B. Read the display names from the Microsoft CRM web service CrmService.
C. Store all text in a satellite .Net assembly. Create a separate copy of the satellite assembly for each
deployment with the relevant text.
D. Use .Net Reflection within your web pages to determine the entity and attribute display names at
runtime from the WSDL generated by the Microsoft CRM web service.
Answer: A

NO.5 You want to display Microsoft CRM data within an ASP .Net DataGrid web control. It is

important that
only data the user has permission to see is displayed. Which of the following techniques can you use?
Choose the 2 that apply.
A. Use the RetrieveMultiple method of the CrmService web service to retrieve the Microsoft CRM data as
a BusinessEntityCollection, and bind this to the DataGrid.
B. Use the RetrieveMultiple method of the CrmService web service to retrieve the Microsoft CRM data as
a DataSet, and bind this to the DataGrid.
C. Use the RetrieveMultiple method of the CrmService web service to retrieve the Microsoft CRM data as
a BusinessEntityCollection. Use custom code to iterate through the BusinessEntityCollection to add the
data to the DataGrid.
D. Use classes in the System.Data .Net Framework namespace to populate a DataSet with the results of
a SQL query against Microsoft CRM filtered views. Bind this DataSet to the DataGrid.
Answer: CD

NO.6 You are writing a Post-Callout that should identify when the CloseProbability attribute of the
Opportunity entity is changed, and by how much, based on the parameters passed into the callout. Which
of the following partial callout configurations could you use for this callout? Select two. Each correct
answer forms a complete solution Choose the 2 that apply.
A. <subscription ?>
<prevalue>closeprobability</prevalue>
</subscription>
B. <subscription ?>
<postvalue>closeprobability</postvalue>
</subscription>
C. <subscription ?>
<prevalue>closeprobability</prevalue>
<postvalue>closeprobability</postvalue>
</subscription>
D. <subscription ?>

<prevalue>closeprobability</prevalue>
<postvalue>@all</postvalue>
</subscription>
Answer: CD

NO.7 You are building a custom web application to update Microsoft CRM data via the Microsoft CRM
platform. This data includes some numeric fields which may have maximum and minimum values applied
within the Microsoft CRM schema; values which may be changed in the future. Your priority is for the
custom application to offer a similar user experience to that of the Microsoft CRM application, including
how users are notified of data validation errors. What is the best way to do this?
A. Use the MetadataService to identify the maximum and minimum permitted values.
Use these values to apply data validation within the user interface.
B. Use the Microsoft CRM customization interface to find the current maximum and minimum permitted
values.
Store these values in a resource assembly, and update the resource assembly whenever the values are
changed.
Use these values to apply data validation within the user interface.
C. Use the MetadataService to identify the maximum and minimum permitted values.
Write a PreCallout to implement the data validation using these values, and to pass validation error
messages to the user.
D. Do not do any data validation in the application.
If the Microsoft CRM platform returns any errors, display them to the user.
Answer: A

NO.8 You have written a PostUpdate callout that performs calculations on the Microsoft CRM order record
when it is changed, and updates the record with the results of the calculation. When you try to update an
order through the Micrsoft CRM interface it takes a long time, and ultimately gives a timeout error. During
the update you notice the processor utilization on the server rises significantly. What should

you do to
resolve these problems?
A. In callout.config.xml, add the following attribute to the subscription element for the callout: timeout="2"
B. In callout.config.xml, add the following attribute to the subscription element for the callout: onerror="ignore"
C. Rewrite the callout code to ensure that the updates to the order object only occur once as a result of
changes by the user, and do not repeat endlessly as a result of the update made by the callout.
D. Rewrite the callout code to make the updates to the order record asynchronously.
Answer: C

NO.9 You have a PostUpdate callout that has been deployed to your Microsoft CRM Server. You are now
trying to debug the callout using the Visual Studio 2003 debugger. You have attached the debugger to the
correct process, and set a breakpoint on first line of code in the PostUpdate method, but the code is not
stopping on the breakpoint. You are sure the callout code is running. What could be the problem?
A. You are using the wrong version of the debugger. You need to use Visual Studio 2005 to debug
callouts.
B. You have not deployed a program database (pdb) file for the callout assembly to the server.
C. The callout assembly does not have a strong name.
D. In callout.config.xml, the subscription element for the callout has the attribute onerror="ignore".
Answer: B

NO.10 You have two callouts (CalloutA and CalloutB) that both fire on the PostUpdate event of the Task entity.
How can you ensure that CalloutA always runs before CalloutB, with the minimum of code changes?
A. Add a CalloutOrder attribute to the subscription element for each callout in the callout.config.xml file.
Set the value of the CalloutOrder attribute for CalloutA to be a lower integer than the value for

CalloutB.
B. Remove the definition for CalloutB from callout.config.xml. Call CalloutB directly at the end of the code
for CalloutA.
C. In callout.config.xml, change the event attribute for CalloutA to PreCallout.
D. In callout.config.xml, ensure the subscription element for CalloutA appears earlier in the file than that
for CalloutB.
Answer: D

NO.11 You want to return multiple values from a method in a workflow .NET assembly. How should you do
this?
A. Define multiple parameters as By Reference, and return values through these parameters.
B. Define the return value as a string. Concatenate all the values into the string, and use string
manipulation functions within the workflow rule to split the different values.
C. Define the return value of type XML. Build all the values into the one XML document, and use the retval
element in the workflow.config file.
D. Define the return value of type entity. Return a DynamicEntity with the values set a properties of the
DynamicEntity.
Answer: C

NO.12 You have written a workflow assembly method which takes two parameters: StartDate is of type
datetime, and AccountID is of type lookup, and expects an account entity. Neither parameter has a default
value. How should you supply information about these parameters within workflow.config?
A. <parameter name="StartDate" datatype="datetime" />
<parameter name="AccountID" entityname="account" />
B. <parameter name="StartDate" datatype="datetime" />
<parameter name="AccountID" datatype="account" />
C. <parameter name="StartDate" datatype="datetime" />
<parameter name="AccountID" datatype="lookup" entityname="account" />
D. <parameter name="StartDate" entityname="datetime" />
<parameter name="AccountID" entityname="account" />

Answer: C

NO.13 You have created a workflow .NET assembly and deployed the assembly dll to your company's
Microsoft CRM server. You have local administrator rights on the server. What additional steps do you
need to take to ensure you can debug the assembly on the server? Select two answers. Each correct
answer forms part of the complete solution Choose the 2 that apply.
A. Deploy an up-to-date program database (pdb) to the server.
B. Add the assembly to the Global Assembly Cache.
C. Ensure a .Net Framework 1.1 debugger is installed on the server.
D. Ensure a .Net Framework 2.0 debugger is installed on the server.
Answer: AC

NO.14 You have created a new callout assembly that contains a PostCreate callout for the Lead entity. You
have copied the assembly to the correct directory on the Microsoft CRM server, and added the callout
configuration details to the callout.config.xml file. However, when you create a new lead, the callout does
not fire. No errors appear in the event log, and previously deployed callouts work correctly What should
you do to resolve the problem ?
A. Run iisreset on the Microsoft CRM server.
B. Publish the lead entity via the Microsoft CRM Customization user interface.
C. Install the callout assembly in the Global Assembly Cache on the Microsoft CRM Server.
D. Restart the CrmWorkflowService.
Answer: A

NO.15 You have been asked to create a web portal for your company's customers which allows each
customer to view the data stored against their Microsoft CRM account, but not any other accounts. The
company has over 1000 customers who may use this portal, and you want to minimize the licensing cost,
while maintaining sufficient security. What users and licenses should you use for this scenario?

A. Create one Microsoft CRM user account with a Microsoft CRM client license that is used by all
customers. Use this account for authentication in the portal and for accessing Microsoft CRM data.
B. Create a separate Microsoft CRM user account for each customer, each with a Microsoft CRM client
license. Use each account for authentication in the portal and for accessing Microsoft CRM data.
C. Create a separate, non-Microsoft CRM authentication mechanism for each customer in the portal.
Purchase a Microsoft CRM External Connector License. Create one proxy account which the portal uses
to access Microsoft CRM data.
D. Create a separate, non-Microsoft CRM authentication mechanism for each customer in the portal.
Retrieve Microsoft CRM data directly from the SQL database using filtered views, hence no Microsoft
CRM licenses are required.
Answer: C

NO.16 Within a PostCreate callout method, what is the quickest way to determine the primary key of the
newly created entity?
A. Read the value of the InstanceId property of the CalloutEntityContext parameter passed to the callout
method.
B. Within the callout.config.xml file, specify that the primary key attribute should be passed as a postvalue.
Read this value from the postEntityImageXml parameter passed to the callout method.
C. Read the value of the EntityID parameter passed to the callout method.
D. It is not possible to determine the primary key of the newly created entity, as the primary key is only
assigned after all callouts have completed.
Answer: A

NO.17 You are creating an ASP .NET application to extend your company's Microsoft CRM implementation,
and you want the application to resemble the Microsoft CRM application. How should you

achieve this
with the minimum effort, while ensuring your extensions are fully supported?
A. Reference the cascading style sheets used by the Microsoft CRM application.
B. Use the Microsoft CRM ASP .NET web controls within your custom pages.
C. Create .aspx web pages that inherit from the class Microsoft.Crm.Application.BasePage.
D. Use the styles in the cascading style sheet file template.css that is supplied with the Microsoft CRM 3.0
SDK.
Answer: D

NO.18 You are writing a PostUpdate callout that needs to identify when the value of an attribute is changed.
How should you do this?
A. Ensure there is a prevalue and a postvalue element for the attribute in callout.config.xml.
Deserialize the preImageEntityXml and postImageEntityXml parameters passed to the callout, and
compare the values for the attribute.
B. Ensure there is a prevalue and a postvalue element for the attribute in callout.config.xml.
Compare the string values of the preImageEntityXml and postImageEntityXml parameters.
C. Ensure there is a postvalue element for the attribute in callout.config.xml.
Use the Retrieve method of the CrmService web service to read the current value of the attribute.
Deserialize the postImageEntityXml parameters passed to the callout and compare the value of the
attribute to that returned by the Retrieve method.
D. Ensure there is a postvalue element for the attribute in callout.config.xml.
Use the Retrieve method of the CrmService web service to read the current value of the attribute.
Compare this value to the postImageEntityXml parameter.
Answer: A

NO.19 Your company has a requirement that whenever a user creates a case in Microsoft CRM, a record is
written to a custom application. As the custom application can be slow to update, you want to ensure that
the code you write does not impact the Microsoft CRM user's experience. You also want to ensure that
only data which is saved to Microsoft CRM is written to the custom application. How should

you write the
logic to update the custom application?
A. As a Pre-Callout.
B. As a Post-Callout.
C. Using client-side Java Script that runs on a form's OnSave event.
D. As a workflow assembly that is called from a workflow rule that runs on the Create event.
Answer: D

NO.20 You have created a callout assembly, MyCompany.MyCallout, and deployed it on a Microsoft CRM
server. You now want to debug the callout. To which process should you attach the debugger?
A. w3wp.exe
B. CrmWorkflowService.exe
C. MyCompany.MyCallout.dll
D. MyCompany.MyCallout.exe
Answer: A