



70-494^{Q&As}

Re for MCSD: Web Applications

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QUESTION 1

You are developing an ASP.NET MVC Web API image management application. The application must meet the following requirements:

It must send or receive image data without the use of a buffer.

It must allow up to 4 MB of image data to be received.

It must allow up to 3 MB of image data to be sent.

You need to complete the code to meet the requirements.

What should you do? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You

may need to drag the split bar between panes or scroll to view content.)

Select and Place:

The screenshot shows an ASP.NET MVC Web API configuration interface. On the left, there is a list of properties to be placed into the code: config, server, MaxBufferSize, MaxReceivedMessageSize, MaxConcurrentRequests, Streamed, and Buffered. The 'Answer Area' on the right contains a code editor with the following code:

```
class Program
{
    private static string _baseAddress = "http://localhost:8080/";

    static void Main(string[] args)
    {
        var config = new HttpSelfHostConfiguration(_baseAddress);
        config.Routes.MapHttpRoute(
            name: "DefaultApi",
            routeTemplate: "api/{controller}/{id}",
            defaults: new { id = RouteParameter.Optional }
        );

        // [Empty box] = 1024 * 1024 * 3;
        // [Empty box] = 1024 * 1024 * 4;
        // [Empty box].TransferMode =
        // TransferMode.[Empty box];

        var server = new HttpSelfHostServer(config);
        server.OpenAsync().Wait();
    }
}
```

Correct Answer:



config

server

MaxBufferSize

MaxReceivedMessageSize

MaxConcurrentRequests

Streamed

Buffered

Answer Area

```
class Program
{
    private static string _baseAddress = "http://localhost:8080/";

    static void Main(string[] args)
    {
        var config = new HttpSelfHostConfiguration(_baseAddress);
        config.Routes.MapHttpRoute(
            name: "DefaultApi",
            routeTemplate: "api/{controller}/{id}",
            defaults: new { id = RouteParameter.Optional }
        );

        config.MaxBufferSize = 1024 * 1024 * 3;

        config.MaxReceivedMessageSize = 1024 * 1024 * 4;

        config.TransferMode =
            TransferMode.Streamed;

        var server = new HttpSelfHostServer(config);
        server.OpenAsync().Wait();
    }
}
```

QUESTION 2

You need to modify the application to meet the productId requirement. What should you do?

- A. Modify the RegisterGlobalFilters method of the Global.asax.cs file as follows. `Contract.Assume(productId != 0);`
- B. Modify the GetDealPrice method of ProductController as follows. `Contract.Requires(productId > 0);`
- C. Modify the RegisterGlobalFilters method of the Global.asax.cs file as follows. `Contract.Requires(productId > 0);`
- D. Modify the GetDealPrice method of ProductController as follows. `Contract.Assume(productId > 0);`

Correct Answer: B

QUESTION 3

You are developing a library to support multiple ASP.NET MVC web applications on a shared server. The library provides implementations of security algorithms.

If a problem with any of the security algorithms is discovered, a new version of the library must be created and deployed. Application downtime during the update must be minimized.

You need to ensure that the new version of the library will be used by all applications as soon as possible. What should



you do?

- A. Build the web applications and include the security assembly as an embedded resource. When an update is needed, copy the new assembly to the bin directory for the application.
- B. Sign all assemblies in each application with the same key used to sign the security assembly. When an update is needed, create a new key pair and re-sign all assemblies.
- C. Build the security assembly as a netmodule in a shared location. Use the assembly linker to merge the netmodule into the assemblies for the application. When an update is needed, update the netmodule in the shared location.
- D. Install the security assembly in the Global Assembly Cache (GAC). When an update is needed, update the assembly in the GAC.

Correct Answer: D

QUESTION 4

You are developing an ASP.NET MVC application in Visual Studio 2012. The application contains sensitive bank account data. The application contains a helper class named `SensitiveData.Helpers.CustomEncryptor`.



```
public class CustomEncryptor
{
    public string Encrypt(string plaintext)
    {
        ...
    }
}
```

The application contains a controller named **BankAccountController** with two actions.

```
public class BankAccountController : Controller
{
    public ActionResult GetAccounts()
    {
        ...
    }

    public ActionResult EditAccount(string maskedAccountNum)
    {
        ...
    }
}
```

The application contains a model named **BankAccount**, which is defined in the following code segment.

```
public class BankAccount
{
    public string AccountNumber { get; set; }
    public string AccountName { get; set; }
    public double Balance { get; set; }
}
```

The application must not display AccountNumber in clear text in any URL.

You need to build the view for the GetAccounts action.

How should you build the view? (To answer, drag the appropriate code segment to the correct location or locations. Each code segment may be used once, more than once, or not at all. You may need

to drag the split bar between panes or scroll to view content.)



Select and Place:

custEncrypt
maskedAccountNum
Html
Encrypt (item.AccountNumber)
Encode (item.AccountNumber)

```
@model IEnumerable<SensitiveData.Models.GamerAccount>
@{
    SensitiveData.Helpers.CustomEncryptor custEncrypt =
        new SensitiveData.Helpers.CustomEncryptor();
}
<h2>GetAccounts</h2>
<table>
    <tr>
        <th>Account Name</th>
        <th>Balance</th>
    </tr>
    @foreach (var item in Model)
    {
        <tr>
            <td>@Html.DisplayFor(modelItem => item.AccountName)</td>
            <td>@Html.DisplayFor(modelItem => item.Highscore)</td>
            <td>
                @Html.ActionLink("Edit", "EditAccount",
                    new {
                        =
                    }
                )
            </td>
        </tr>
    }
</table>
```

Correct Answer:



```
@model IEnumerable<SensitiveData.Models.GamerAccount>
@{
    SensitiveData.Helpers.CustomEncryptor custEncrypt =
        new SensitiveData.Helpers.CustomEncryptor();
}
<h2>GetAccounts</h2>
<table>
    <tr>
        <th>Account Name</th>
        <th>Balance</th>
    </tr>
    @foreach (var item in Model)
    {
        <tr>
            <td>@Html.DisplayFor(modelItem => item.AccountName)</td>
            <td>@Html.DisplayFor(modelItem => item.Highscore)</td>
            <td>
                @Html.ActionLink("Edit", "EditAccount",
                    new {
                        maskedAccountNum =
                            custEncrypt
                                .Encrypt(item.AccountNumber)
                    })
            </td>
        </tr>
    }
</table>
```

maskedAccountNum =
custEncrypt
.Encrypt(item.AccountNumber)

QUESTION 5

You are authoring unit tests.

The unit tests must test code that consumes sealed classes.

You need to create, maintain, and inject dependencies in the unit tests.

Which isolation method should you use?

- A. T4 text templates and code generation
- B. Stub types
- C. Shim types
- D. Hard-coded implementation

Correct Answer: C

Explanation: <http://msdn.microsoft.com/en-us/library/hh549176.aspx>

Shim types are one of two technologies that the Microsoft Fakes Framework uses to let you easily isolate components under test from the environment. Shims divert calls to specific methods to code that you write as part of your test. Many methods return different results dependent on external conditions, but a shim is under the control of your test and can



return consistent results at every call. This makes your tests much easier to write.

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