

70-486^{Q&As}

Developing ASP.NET MVC Web Applications

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QUESTION 1

You are developing an ASP.NET MVC web application in Visual Studio 2012. The application requires several thousand content files. All content is hosted on the same IIS instance as the application.

You detect performance issues when the application starts.

You need to resolve the performance issues.

What should you do?

- A. Implement HTTP caching in the ASP.NET MVC controllers.
- B. Combine the content files by using ASP.NET MVC bundling.
- C. Install a second IIS instance.
- D. Move the content to a Windows Azure CDN.

Correct Answer: B

Bundling is a new feature in ASP.NET 4.5 that makes it easy to combine or bundle multiple files into a single file. You can create CSS, JavaScript and other bundles. Fewer files means fewer HTTP requests and that can improve first page load performance.

References: <https://www.asp.net/mvc/overview/performance/bundling-and-minification>

QUESTION 2

DRAG DROP

You are developing an ASP.NET Core application. You plan to use YAML as the configuration language. You create a custom YAML configuration parser.

You need to implement a mechanism to support reading and applying these YAML configurations.

How should you complete the code? To answer, drag the appropriate code segments to the correct 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Code segments

- DictionaryConfigurationSource
- JsonConfigurationSource
- JsonConfigurationProvider
- FileConfigurationSource
- FileConfigurationProvider

Answer area

```
public class YamlConfigurationSource: Code segment
{
    public override IConfigurationProvider Build(IConfigurationBuilder builder)
    {
        FileProvider = FileProvider ?? builder.GetFileProvider();
        return new YamlConfigurationProvider(this);
    }
}
public class YamlConfigurationProvider: Code segment
{
    public YamlConfigurationProvider(YamlConfigurationSource source) : base(source)
    {
    }
    public override void Load(Stream stream)
    {
        ...
    }
}
```

Correct Answer:

Code segments

- DictionaryConfigurationSource
- JsonConfigurationSource
- JsonConfigurationProvider
-
-

Answer area

```
public class YamlConfigurationSource: FileConfigurationProvider
{
    public override IConfigurationProvider Build(IConfigurationBuilder builder)
    {
        FileProvider = FileProvider ?? builder.GetFileProvider();
        return new YamlConfigurationProvider(this);
    }
}
public class YamlConfigurationProvider: FileConfigurationSource
{
    public YamlConfigurationProvider(YamlConfigurationSource source) : base(source)
    {
    }
    public override void Load(Stream stream)
    {
        ...
    }
}
```

Reference: <https://andrewlock.net/creating-a-custom-configurationprovider-in-asp-net-core-to-parse-yaml/>

QUESTION 3

You are developing an ASP.NET application.

You need to minimize the amount of data in all HTTP responses.

What should you do?

- A. Minify the content files.
- B. Enable compression in IIS.
- C. Host the image, JavaScript, and CSS files on Microsoft Azure Storage.
- D. Bundle the content files.

Correct Answer: B

Network bandwidth is a limited resource. Reducing the size of the response usually increases the responsiveness of an app, often dramatically. One way to reduce payload sizes is to compress an app's responses. Use server-based response compression technologies in IIS, Apache, or Nginx. References: <https://docs.microsoft.com/en-us/aspnet/core/performance/response-compression?tabs=aspnetcore2x>

QUESTION 4

You have been instructed to make sure that the technical prerequisites with regards to scalability are adequately met. To achieve this, it is necessary to access the web.config file to configure session storage.

You want to make use of a SessionState mode that stores session state in a process that is separate from the ASP.NET worker process or IIS application pool.

Which of the following should you make use of?

- A. You should consider making use of the In-process mode.
- B. You should consider making use of the Off mode.
- C. You should consider making use of the SQLServer mode.
- D. You should consider making use of the StateServer mode.
- E. You should consider making use of the Custom mode.

Correct Answer: D

QUESTION 5

You are employed as a developer at Certkingdom.com. Certkingdom.com has a single Active Directory domain, named Certkingdom.com.

You have recently developed an ASP.NET application for Certkingdom.com. You are planning to assess the new application by running tests that target the application's business layer.

Which of the following actions should you take?

- A. You should consider making use of a Windows Forms Control.
- B. You should consider making use of a Coded UI Test Project.

- C. You should consider making use of a Unit Test Project.
- D. You should consider making use of a Web Performance and Load Test Performance Project.

Correct Answer: C

QUESTION 6

You are developing an ASP.NET MVC application in Visual Studio 2012. The application supports multiple cultures.

The application contains three resource files in the Resources directory:

- My Dictionary.resx
- MyDictionary.es.resx
- MyDictionary.fr.resx

Each file contains a public resource named Title with localized translation.

The application is configured to set the culture based on the client browser settings.

The application contains a controller with the action defined in the following code segment.

(Line numbers are included for reference only.)

```
01 public ActionResult GetProducts()  
02 {  
03  
04     List<ProductModel> products = DataBase.DBAccess.GetProducts();  
05     return View(products);  
06 }
```

You need to set ViewBag.Title to the localized title contained in the resource files. Which code segment should you add to the action at line 03?

- A. ViewBag.Title = HttpContext.GetGlobalResourceObuect("MyDictionary", "Title");
- B. ViewBag.Title = HttpContext.GetGlobalResourceObject("MyDictionary", "Title", new System.Globalization.CultureInfo("en"));
- C. ViewBag.Title = Resources.MyDictionary.Title;
- D. ViewBag.Title = HttpContext.GetLocalResourceObject("MyDictionary", "Title");

Correct Answer: C

Only the Resources class is used.

QUESTION 7

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some questions sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You develop an ASP.NET Core MVC web application. You have a legacy business system that sends data to the web application by using Web API. The legacy business system uses proprietary data formats.

You need to handle the proprietary data format.

Solution: Add an instance of a custom formatter class to the OutputFormatters collection in MVC.

Does the solution meet the goal?

A. Yes

B. No

Correct Answer: B

We need to add the custom formatter class to the InputFormatters collection in MVC.

References: <https://www.c-sharpcorner.com/article/custom-formatters-in-asp-net-core-mvc-web-api/>

QUESTION 8

Customers download videos by using HTTP clients that support various content encodings.

You need to configure caching on the DownloadVideo action to maximize performance.

Which attribute should you add?

- A. `[OutputCache(Location = OutputCacheLocation.Downstream, VaryByParam = "videoId", VaryByCustom = "browser")]`
- B. `[OutputCache(Location = OutputCacheLocation.Any, VaryByCustom = "compressionMethod", VaryByContentEncoding = "all")]`
- C. `[OutputCache(Location = OutputCacheLocation.ServerAndClient, VaryByHeader = "Cache-Control")]`
- D. `[OutputCache(Location = OutputCacheLocation.Downstream, VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, *;q=0")]`
- E. `[OutputCache(Location = OutputCacheLocation.Any, VaryByParam = "videoId", VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, *;q=0")]`

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: E

A VaryByParam property with the value "Videoid". When different values of the Id parameter are passed to the controller action, different cached versions of the Details view are generated.

It is important to understand that using the VaryByParam property results in more caching and not less. A different cached version of the Details view is created for each different version of the Id parameter.

You can set the VaryByParam property to the following values:

* = Create a different cached version whenever a form or query string parameter varies. none = Never create different cached versions Semicolon list of parameters = Create different cached versions whenever any of the form or query string parameters in the list varies References: <https://docs.microsoft.com/en-us/aspnet/mvc/overview/older-versions-1/controllers-and-routing/improving-performance-with-output-caching-cs> [https://msdn.microsoft.com/en-us/library/system.web.mvc.outputcacheattribute_properties\(v=vs.118\).aspx](https://msdn.microsoft.com/en-us/library/system.web.mvc.outputcacheattribute_properties(v=vs.118).aspx)

QUESTION 9

You are developing an ASP.NET MVC application that will be deployed on local Internet Information Services (IIS) servers and on an Azure Web Role.

You must log events for the application when it is deployed locally and on Azure. You must not deploy additional services.

You need to implement a logging solution.

Which two technologies can you use? Each correct answer presents a complete solution.

- A. event log
- B. trace
- C. console
- D. named pipe

Correct Answer: AB

QUESTION 10

DRAG DROP

You need to ensure that the application uses RunLogRoleProvider custom role provider.

How should you modify the web.config file? (To answer, drag the appropriate line of code to the correct location or locations. Each line of code 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:

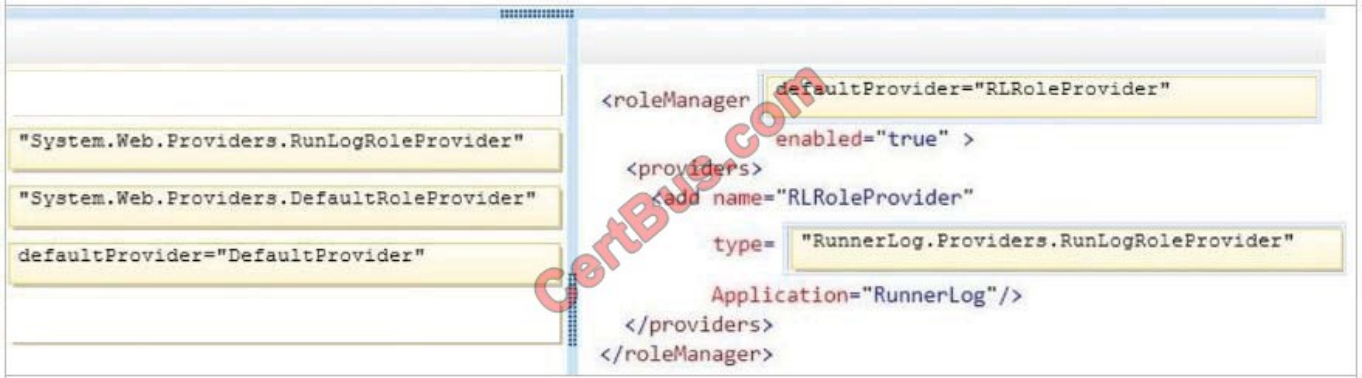
The screenshot shows a web.config file editor with a drag-and-drop interface. On the left, there are five yellow boxes representing code snippets to be dragged:

- "RunnerLog.Providers.RunLogRoleProvider"
- "System.Web.Providers.RunLogRoleProvider"
- "System.Web.Providers.DefaultRoleProvider"
- defaultProvider="DefaultProvider"
- defaultProvider="RLRoleProvider"

On the right, the XML structure of the <roleManager> element is shown with some fields highlighted in blue boxes for dragging:

```
<roleManager enabled="true" >  
  <providers>  
    <add name="RLRoleProvider"  
      type=  
      Application="RunnerLog"/>  
  </providers>  
</roleManager>
```

Correct Answer:



QUESTION 11

DRAG DROP

You are developing an ASP.NET MVC application in Visual Studio. 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 contains a helper class named SensitiveData.Helpers.CustomEncryptor. The application contains a controller named BankAccountController with two actions. The application contains a model named BankAccount, which

is defined in the following code segment

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

You need to build the view for the GetAccounts action.

You have the following code:

```
@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 {
        Target 1 =
        Target 2
        Target 3
    })
</td>
</tr>
}
</table>
```

Which code segments should you include in Target 1, Target 2 and Target 3 to build the view? To answer, drag the appropriate code segment to the correct targets. 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:

Code Segments	Answer Area
<input type="text" value="custEncrypt"/>	Target 1: <input type="text" value="Code Segment"/>
<input type="text" value="maskedAccountNum"/>	Target 2: <input type="text" value="Code Segment"/>
<input type="text" value="Html"/>	Target 3: <input type="text" value="Code Segment"/>
<input type="text" value="Encrypt(item.AccountNumber)"/>	
<input type="text" value="Encode(item.AccountNumber)"/>	

Correct Answer:

Code Segments	Answer Area
<input type="text"/>	Target 1: <input type="text" value="maskedAccountNum"/>
<input type="text"/>	Target 2: <input type="text" value="custEncrypt"/>
<input type="text" value="Html"/>	Target 3: <input type="text" value="Encrypt(item.AccountNumber)"/>
<input type="text"/>	
<input type="text" value="Encode(item.AccountNumber)"/>	

QUESTION 12

You need to implement client-side animations according to the business requirements. Which line of code should you use? (Choose 2)

- A. \$("h1:first").fadeOut(1000);
- B. \$("h1: first") .animate ({ opacity: 0 });
- C. \$("h1:first").fadeOut(1000);
- D. \$("h1:first").animate({ opacity: 1 });

Correct Answer: BC

QUESTION 13

You are developing an ASP.NET MVC application. The application includes the following method- One numbers are included for reference only.

```

01 private string GenerateMessage(string userAgent)
02 {
03
04     if (userAgent.ToLower().Contains("bot"))
05     {
06         return "Web crawlers prohibited";
07     }
08     return "Unknown browser";
09 }
    
```

The application calls the Generate Message method before displaying each page. The Generate Message method throws NullReferenceException exceptions. You need to use Code Contracts to prevent the exceptions. Which code segment should you insert at line 03?

- A. `Contract.Invariant(userAgent != null);`
- B. `Contract.Requires(userAgent != null);`
- C. `Contract.Assume(userAgent != null);`
- D. `Contract.Ensures(userAgent != null);`

- A. `Contract.Invariant(userAgent !=null);`
- B. `Contract.Requires(userAgent !=null);`
- C. `Contract.Assume(userAgent !=null);`
- D. `Contract.Ensures(userAgent !=null);`

Correct Answer: B

QUESTION 14

You need to ensure that developers can connect to a Windows Azure role by using RDP.

What should you do?

- A. Export a certificate without a private key. Upload the .cer file to the Management Certificates section on the Azure Management Portal.
- B. Export a certificate with a private key. Upload the .pfx file to the Management Certificates section on the Azure Management Portal.
- C. Export a certificate without a private key. Upload the .cer file to the Certificates section under the TranscodeWorkerRole hosted service on the Azure Management Portal.
- D. Export a certificate with a private key. Upload the .pfx file to the Certificates section under the TranscodeWorkerRole hosted service on the Azure Management Portal.

Correct Answer: D

In case you don't want to use the RDP certificate created by WindowsAzure Tools and want to use a custom certificate instead, the following steps will guide you. These steps can also be used in case package is not being published from Visual Studio rather it is being built locally, saved in either Local Machine's Drive or Windows Azure Blob Storage and subsequently published from there.

Here are the steps which are required to get pass the publishing error which you might be running into. You would need to upload the Certificate with Private Key to the portal (when VisualStudio is used this is done in the background).

Detailed steps.

1.

In Visual Studio, go to the solution which is being developed.

2.

Right click the Web Project -> Configure Remote Desktop -> click on View to see Certificate details (Since I don't have a custom certificate I will use one create by Windows Azure Tools itself)

3.

Go to Details tab on Certificate -> Click Copy to file. -> Next -> Select 'Yes, export the private key'

QUESTION 15

You are developing a new ASP.NET MVC application that will be hosted on Microsoft Azure. You need to implement caching. The caching solution must support the following:

- The cache must be able to store out-of-process ASP.NET session state.
- The cache must be able to store a variety of data types.
- The cache must offer a large amount of space for cached content.
- You must be able to share output cache content across web server instances.

You need to select a cache solution.

Which caching solution should you choose?

- A. ASP.NET Caching
- B. Azure In-Role Cache
- C. Azure Redis Cache
- D. Azure Managed Cache Service

Correct Answer: C

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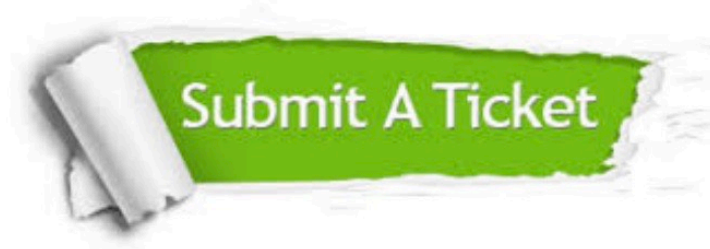
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