

## Exam Questions 70-486

Developing ASP.NET MVC 4 Web Applications

<https://www.2passeasy.com/dumps/70-486/>



### NEW QUESTION 1

DRAG DROP

You need to implement the Views\RunLog\\_CalculatePace.cshtml partial view from Views\Runlog\GetLog.cshtml to display the runner's average mile pace.

How should you implement the view? (To answer, drag the appropriate code segments 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.)

|   |   |
|---|---|
| <div><div>@Html.Partial(<br/>@Html.Action(<br/>"_CalculatePace.cshtml", log)<br/>"_CalculatePace", log)<br/>"_CalculatePace")</div></div> | <div>&lt;td&gt;<br/>@Html.DisplayFor(model =&gt; log.Time)<br/>&lt;/td&gt;<br/>&lt;td&gt;<br/><br/><br/><br/>&lt;/td&gt;<br/>&lt;td&gt;<br/>@Html.ActionLink(<br/>"Delete", "DeleteLog",<br/>new { id = log.Id })<br/>&lt;/td&gt;</div> |
|---|---|

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

|  |   |
|--|---|
| <div><div>@Html.Action(<br/>"_CalculatePace.cshtml", log)<br/><br/>"_CalculatePace")</div></div> | <div>&lt;td&gt;<br/>@Html.DisplayFor(model =&gt; log.Time)<br/>&lt;/td&gt;<br/>&lt;td&gt;<br/>@Html.Partial(<br/>"_CalculatePace", log)<br/><br/>&lt;/td&gt;<br/>&lt;td&gt;<br/>@Html.ActionLink(<br/>"Delete", "DeleteLog",<br/>new { id = log.Id })<br/>&lt;/td&gt;</div> |
|--|---|

### NEW QUESTION 2

DRAG DROP

You need to implement security according to the business requirements.

How should you modify RunLogController? (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.)

|  |   |
|--|---|
| <div>[Authorize(Roles = "Admin")]</div> <div>[Authorize]</div> <div>[Authorize(Users = "Admin")]</div> <div>[AllowAnonymous]</div> <div>[Authorize(Users = "*")]</div> | <pre> public class RunLogController : Controller {     [ ]     public ActionResult GetLog()     ...      public ActionResult InsertLog()     ...     [ ]     public ActionResult Deletelog(int id)     [ ]     public ActionResult EditLog(int id)     ... }         </pre> |
|--|---|

- A. Mastered  
 B. Not Mastered

Answer: A

Explanation:

|   |   |
|---|---|
| <div>[Authorize(Roles = "Admin")]</div> <div>[Authorize(Users = "Admin")]</div> <div>[Authorize(Users = "*")]</div> | <div>[Authorize]</div> <pre> public class RunLogController : Controller {     [AllowAnonymous]     public ActionResult GetLog()     ...      public ActionResult InsertLog()     ...     [Authorize(Roles = "Admin")]     public ActionResult Deletelog(int id)     [Authorize(Roles = "Admin")]     public ActionResult Editlog(int id)     ... }         </pre> |
|---|---|

### NEW QUESTION 3

You need to extend the edit functionality of RunLogController.  
 Which code segment should you use?



- ☐ A. 

```
[HttpGet]
[ActionName("EditLog")]
[ValidateAntiForgeryToken]
public ActionResult EditLog(LogModel log)
{
    ...
}
```
- ☐ B. 

```
[HttpPost]
[ActionName("EditLog")]
public ActionResult EditLogValidated(LogModel log)
{
    ...
}
```
- ☐ C. 

```
[HttpPost]
[ActionName("EditLog")]
[ValidateAntiForgeryToken]
public ActionResult EditLogValidated(LogModel log)
{
    ...
}
```
- ☐ D. 

```
[HttpPost]
[ActionName("EditLog")]
[RequireHttps]
public ActionResult EditLogValidated(LogModel log)
{
    ...
}
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

Answer: C

#### NEW QUESTION 4

##### DRAG DROP

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

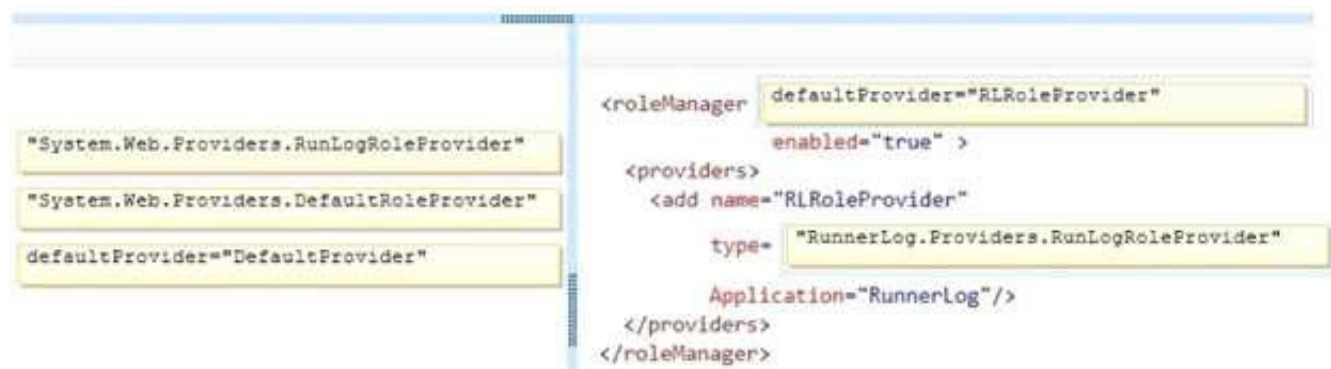
How should you modify the web.config file? (To answer, drag the appropriate line of code to the correct location or locations. Each line of code may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

|  |                            |
|--|----------------------------|
| "RunnerLog.Providers.RunLogRoleProvider"   | <roleManager               |
| "System.Web.Providers.RunLogRoleProvider"  | enabled="true" >           |
| "System.Web.Providers.DefaultRoleProvider" | <providers>                |
| defaultProvider="DefaultProvider"          | <add name="RLRoleProvider" |
| defaultProvider="RLRoleProvider"           | type=                      |
|  | Application="RunnerLog"/>  |
|  | </providers>               |
|  | </roleManager>             |

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:



#### NEW QUESTION 5

You need to make all of the rows in the table bold in the Views/RunLog/GetLog.cshtml view. Which code segment should you use?

- A. Table > th:last-child { font-weight: bold; }
- B. Table+first-child{ font-weight: bold; }
- C. Table>tr>th:nth-child(2){font-weight: bold; }
- D. Table > tr {font-weight: bold;}

Answer: D

#### NEW QUESTION 6

The RunLog/Views/InsertLog.cshtml view must display the /Images/stopwatch.png image and the "Insert Run Data" header text below the image. The view should resemble the exhibit. (Click the Exhibit button.)

The application must display the image above the field set.

You need to add the HTML code to /Runlog/Views/InsertLog.cshtml to display the image and header text.

Which code segment should you use?

- ☐ A. 

```
<h2>
  Insert Run Data
</h2>
<div>
  
</div>
```
- ☐ B. 

```
<div style="background: url('../../Images/StopWatch.png');">
  <h2>Insert Run Data</h2>
</div>
```
- ☐ C. 

```
<div style="width: 130px; height: 100px;">
  <a href="../../Images/StopWatch.png"></a>
</div>
<h2>
  Insert Run Data
</h2>
```
- ☐ D. 

```
<div style="width: 130px; height: 100px; background: url
('../../Images/StopWatch.png');">
</div>
<h2>
  Insert Run Data
</h2>
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** D

**Explanation:**

Example:

```
<div style="background-image: url(../images/test-background.gif); height: 200px; width: 400px; border: 1px solid black;">Example of a DIV element with a background image:</div>
```

```
<div style="background-image: url(../images/test-background.gif); height: 200px; width: 400px; border: 1px solid black;"> </div>
```

Example of a DIV element with a background image:



Reference: DIV BACKGROUND-IMAGE in the STYLE element

<http://www.w3.org/WAI/UA/TS/html401/cp0301/0301-CSS-DIV-BACKGROUND-IMAGE.html>

**NEW QUESTION 7**

You need to add a method to the ProductController class to meet the exception handling requirements for logging. Which code segment should you use?



- ☐ A. `protected override void OnException(ExceptionContext filterContext)`  
`{`  
`Utility.WriteLog(filterContext.Exception);`  
  
`if (filterContext.HttpContext.IsCustomErrorEnabled)`  
`{`  
`filterContext.ExceptionHandled = true;`  
`this.View("Error").ExecuteResult(this.ControllerContext);`  
`}`  
`}`
- ☐ B. `protected override void OnException(ExceptionContext filterContext)`  
`{`  
`Utility.WriteLog(filterContext.Exception);`  
  
`if (System.Diagnostics.Debugger.IsAttached)`  
`{`  
`filterContext.ExceptionHandled = true;`  
`this.View("Error").ExecuteResult(this.ControllerContext);`  
`}`  
`}`
- ☐ C. `protected override void OnException(ExceptionContext filterContext)`  
`{`  
`if (!System.Diagnostics.Debugger.IsLogging())`  
`{`  
`Utility.WriteLog(filterContext.Exception);`  
`filterContext.ExceptionHandled = true;`  
`this.View("Error").ExecuteResult(this.ControllerContext);`  
`}`  
`}`
- ☐ D. `protected override void OnException(ExceptionContext filterContext)`  
`{`  
`Utility.WriteLog(filterContext.Exception);`  
  
`if (filterContext.HttpContext.IsDebuggingEnabled)`  
`{`  
`filterContext.ExceptionHandled = true;`  
`this.View("Error").ExecuteResult(this.ControllerContext);`  
`}`  
`}`

- A. Option A  
 B. Option B  
 C. Option C  
 D. Option D

Answer: A

#### NEW QUESTION 8

An advertising campaign was recently launched. Some of the ads contain a link to products that no longer exist or have IDs that have changed. You need to ensure that all product links display a product. Which code segment should you use to configure the route?

- ☐ A. 

```
routes.MapRoute(
    "Product",
    "Product/{action}/{productName}",
    new { action = "Show", productName = DefaultProduct }
);
```
- ☐ B. 

```
routes.MapRoute(
    "Product",
    "{productName}/{action}/{id}",
    new { action = "Show", productName = DefaultProduct }
);
```
- ☐ C. 

```
routes.MapPageRoute(
    "Product",
    "{productName}/{action}/{id}",
    "~/product.aspx",
    false,
    new RouteValueDictionary { { "action", "Show" }, { "productName",
DefaultProduct } });
```
- ☐ D. 

```
routes.MapPageRoute(
    "Product",
    "Product/{action}/{productName}",
    "~/product.aspx",
    false,
    new RouteValueDictionary { { "action", "Show" }, { "productName",
DefaultProduct } });
```

- A. Option A  
 B. Option B  
 C. Option C  
 D. Option D

**Answer:** A

#### NEW QUESTION 9

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 follow  
 B. `Contract.Assume<ArgumentException>(productId != 0);`  
 C. Modify the GetDealPrice method of ProductController as follow  
 D. `Contract.Requires<ArgumentException>(productId > 0);`  
 E. Modify the RegisterGlobalFilters method of the Global.asax.cs file as follow  
 F. `Contract.Requires<ArgumentException>(productId > 0);`  
 G. Modify the GetDealPrice method of ProductController as follow  
 H. `Contract.Assume<ArgumentException>(productId > 0);`

**Answer:** B

#### Explanation:

The `Contract.Requires(Of TException)` method specifies a precondition contract for the enclosing method or property, and throws an exception if the condition for the contract fails.

Syntax: 'Declaration

`Public Shared Sub Requires(Of TException As Exception) ( _ condition As Boolean _ )` Type Parameters

`TException`

The exception to throw if the condition is false.

Parameters `condition`

Type: `System.Boolean`

The conditional expression to test.

Reference: `Contract.Requires(Of TException)` Method (Boolean)

#### NEW QUESTION 10

You need to implement the business requirements for managing customer data.

What should you do? (Each correct answer presents part of the solution. Choose all that apply.)

- A. Add a class named Customer-Controller to the Controllers folde  
 B. Then add a method named Edit to the class.  
 C. Create a new controller named Administration in the Controllers folde  
 D. Add an action named EditCustomer to the controller.



- E. Add a folder named Customer to the Views folder
- F. Then create a view inside this folder named Edit.aspx.
- G. Create a new folder named EditCustomer to the Views folder
- H. In the new folder, create a new file named Administration.aspx.

**Answer:** AB

#### NEW QUESTION 10

When users attempt to retrieve a product from the product page, a run-time exception occurs if the product does not exist. You need to route the exception to the CustomException.aspx page. Which method should you add to MvcApplication?

- ☐ A. 

```
public static void RegisterGlobalFilters(GlobalFilterCollection filters)
{
    filters.Add(new HandleErrorAttribute
    {
        ExceptionType = typeof(IndexOutOfRangeException),
        View = "CustomException",
    });
}
```
- ☐ B. 

```
public static void RegisterGlobalFilters(GlobalFilterCollection filters)
{
    filters.Add(new HandleErrorAttribute
    {
        ExceptionType = typeof(NullReferenceException),
        View = "CustomException",
    });
}
```
- ☐ C. 

```
public static void RegisterGlobalFilters(GlobalFilterCollection filters)
{
    filters.Add(new HandleErrorAttribute
    {
        ExceptionType = typeof(IndexOutOfRangeException),
        Handler = "CustomException",
    });
}
```
- ☐ D. 

```
public static void RegisterGlobalFilters(GlobalFilterCollection filters)
{
    filters.Add(new HandleErrorAttribute
    {
        ExceptionType = typeof(NullReferenceException),
        Handler = "CustomException",
    });
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** B

#### NEW QUESTION 11

You updated the web.config file with the HTTP run-time value required to display an alternative version of the site. You need to ensure that the correct page displays to the users. Which code segment should you use to update the controller?

- A. If (Request.IsTabletDevice)
- B. If (Request.Browser.IsBrowser("Mobile"))
- C. If (Request.UserAgent["Tablet"])
- D. If (Request.Browser.IsMobileDevice)

**Answer:** D

#### NEW QUESTION 16

You need to implement client-side animations according to the business requirements. Which line of code should you use? (Each correct answer presents a complete solution. Choose all that apply.)

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

Answer: AD

#### NEW QUESTION 19

The GetDealPrice method must be called by using Ajax.

You need to get the price of a product by using the GetDealPrice method of the ProductController.

Which code segment should you use? (Each correct answer presents a complete solution. Choose all that apply.)

☐ A. 

```
$.ajax({
  type: "POST",
  dataType: "json",
  contentType: "application/json",
  url: "Product/GetDealPrice",
  data: "{ 'productId': '" + productId + "' }",
  success: function (data) {
    $(".price").html(data.d);
  }
});
```

☐ B. 

```
$.load({
  dataType: "json",
  contentType: "application/json",
  url: "Product/GetDealPrice/" + productId,
  success: function (data) {
    $(".price").html(data.d);
  }
});
```

☐ C. 

```
$.ajax({
  type: "GET",
  dataType: "json",
  contentType: "application/json",
  url: "Product/GetDealPrice/" + productId,
  success: function (data) {
    $(".price").html(data.d);
  }
});
```

☐ D. 

```
$.getJSON("Product/GetDealPrice/" + productId
function (data) {
  $(".price").html(data.d);
}
);
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: CD

#### NEW QUESTION 24

HOT SPOT

You need to implement the mobile device support requirements.

How should you build the ProcessRequest method? (To answer, select the appropriate options in the answer area.)

Work Area

```

protected override void ProcessRequest(HttpContext httpContext)
{
    var response = httpContext.Response;
    var mobileFormat = ;
    

"image/png"
        "image/gif"
        "image/jpeg"
        "image/bmp"


    var normalFormat = ;
    

"image/png"
        "image/gif"
        "image/jpeg"
        "image/bmp"



    if (httpContext.

Response
        Request
        Application
        Handler

.ContentType == 

"image/png"
        "image/gif"
        "image/jpeg"
        "image/bmp"

)
    {
        if (httpContext.

Response
            Request
            Application
            Handler

.

Browser.IsMobileDevice
            Browser.IsBrowser("MobileDevice")
            Mobile == "android|IP(hone|od)"
            Mobile == "+mobile|tablet"

)
        {
            WriteImage(response, mobileFormat);
        }
        else
        {
            WriteImage(response, normalFormat);
        }
    }
    else
    {
        base.ProcessRequest(httpContext);
    }
}
    
```

- A. Mastered  
 B. Not Mastered

Answer: A

Explanation:



## Work Area

```
protected override void ProcessRequest(HttpContext httpContext)
{
    var response = httpContext.Response;
    var mobileFormat = ;
    
    
    
    

    var normalFormat = ;
    
    
    
    

    if (httpContext..ContentType ==  )
    {
        
        
        
        
    }
    {
        if (httpContext..)
        {
            WriteImage(response, mobileFormat);
        }
        else
        {
            WriteImage(response, normalFormat);
        }
    }
    else
    {
        base.ProcessRequest(httpContext);
    }
}
```

### NEW QUESTION 27

You need to implement the business requirements for managing customer data.  
 What should you do? Each correct answer presents part of the solution. Choose all that apply.

- A. Add a folder named Customer to the Views folde
- B. Then create a view inside this folder named Edit.aspx.
- C. Add a folder named EditCustomer to the Views folde
- D. Then create a view inside this folder named Catalog.aspx.
- E. Add a class named CustomerController to the Controllers folde
- F. Then add a method named Edit to the class.
- G. Add a class named Catalog to the Controllers folde
- H. Then add a method named EditCustomer to the class.

**Answer:** AC

**Explanation:**

From scenario: One of the business requirements, is that administrators must be able to edit information about existing customers.

**NEW QUESTION 32**

You need to configure session storage in the web.config file to meet the technical requirements for scalability.

Which SessionState mode should you use? (Each correct answer presents a complete solution. Choose all that apply.)

- A. StateServer
- B. InProc
- C. AutoDetect
- D. SqlServer

**Answer:** AD

**Explanation:**

ASP.NET session state supports several different storage options for session data. Each option is identified by a value in the SessionStateMode enumeration. The following list describes the available session state modes:

- \* StateServer mode, which stores session state in a separate process called the ASP.NET state service. This ensures that session state is preserved if the Web application is restarted and also makes session state available to multiple Web servers in a Web farm.
- \* SQLServer mode stores session state in a SQL Server database. This ensures that session state is preserved if the Web application is restarted and also makes session state available to multiple Web servers in a Web farm.
- \* InProc mode, which stores session state in memory on the Web server. This is the default.
- \* Custom mode, which enables you to specify a custom storage provider.
- \* Off mode, which disables session state.

References: <https://msdn.microsoft.com/en-us/library/ms178586.aspx>

**NEW QUESTION 34**

You need to update the routes to ensure that a product is always displayed on the product page. Which code segment should you use?

- ☐ A. 

```
routes.MapRoute(
    "Product",
    "{productName}/{action}/{id}",
    new { action = "Show", productName = DefaultProduct }
);
```
- ☐ B. 

```
routes.MapRoute(
    "Product",
    "Product/{action}/{productName}",
    new { action = "Show", productName = DefaultProduct }
);
```
- ☐ C. 

```
routes.MapPageRoute(
    "Product",
    "Product/{action}/{productName}",
    "~/product.aspx",
    false,
    new RouteValueDictionary { { "action", "Show" }, { "productName", DefaultProduct }
});
```
- ☐ D. 

```
routes.MapPageRoute(
    "Product",
    "{productName}/{action}/{id}",
    "~/product.aspx",
    false,
    new RouteValueDictionary { { "action", "Show" }, { "productName", DefaultProduct }
});
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** B

**NEW QUESTION 38**

The GetDealPrice method must be called by using Ajax.

You need to get the price of a product by using the GetDealPrice method of the ProductController. Which code segment should you use? (Each correct answer presents a complete solution. Choose all that apply.)

```

┌ A. $.ajax({
    type: "POST",
    dataType: "json",
    contentType: "application/json",
    url: "Product/GetDealPrice",
    data: '{"productId': '" + productId + "'}',
    success: function (data) {
        $(".price").html(data.d);
    }
});

┌ B. $.load({
    dataType: "json",
    contentType: "application/json",
    url: "Product/GetDealPrice/" + productId,
    success: function (data) {
        $(".price").html(data.d);
    }
});

┌ C. $.ajax({
    type: "GET",
    dataType: "json",
    contentType: "application/json",
    url: "Product/GetDealPrice/" + productId,
    success: function (data) {
        $(".price").html(data.d);
    }
});

┌ D. $.getJSON("Product/GetDealPrice/" + productId
    function (data) {
        $(".price").html(data.d);
    }
});

```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** CD

#### NEW QUESTION 42

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 ke
- B. Upload the .cer file to the Management Certificates section on the Azure Management Portal.
- C. Export a certificate with a private ke
- D. Upload the .pfx file to the Management Certificates section on the Azure Management Portal.
- E. Export a certificate without a private ke
- F. Upload the .cer file to the Certificates section under the TranscodeWorkerRole hosted service on the Azure Management Portal.
- G. Export a certificate with a private ke
- H. Upload the .pfx file to the Certificates section under the TranscodeWorkerRole hosted service on the Azure Management Portal.

**Answer:** D

#### NEW QUESTION 45

You need to ensure that all the MVC controllers are secure.

Which code segment should you use as the body for the CreateController method in AdminVerifierFactory.es?



- ☐ A. `var controller = base.CreateController(requestContext, controllerName) as Controller;`  
`var attributes = controller.GetType().Attributes.ToString();`  
`if (!attributes.Contains("VideoAdminAttribute"))`  
`throw new Exception("Not an Administrator");`  
`return controller;`
- ☐ B. `if (requestContext.HttpContext.Items["Administrator"] == null)`  
`throw new Exception("Not an Administrator");`  
`return base.CreateController(requestContext, controllerName) as Controller;`
- ☐ C. `var controller = base.CreateController(requestContext, controllerName) as Controller;`  
`var hasFilter = controller.GetType().CustomAttributes.Any`  
`(x => x.AttributeType.Name == "VideoAdminAttribute");`  
`if (hasFilter == null)`  
`throw new Exception("Not an Administrator");`  
`return controller;`
- ☐ D. `if (requestContext.RouteData.Values["Administrator"] == null)`  
`throw new Exception("Not an Administrator");`  
`return base.CreateController(requestContext, controllerName) as Controller;`

- A. Option A  
B. Option B  
C. Option C  
D. Option D

Answer: C

#### NEW QUESTION 49

##### HOTSPOT

The designer for the website gave you the following image as the design for the page.



The normal color for the tab is #2da4c2, and the color when the mouse is over the tab is #ffd800.

The HTML that implements the navigation tab is as follows.

```
<ul id="nav">
  <li><a href="/">Home</a></li>
  <li><a href="/">About</a></li>
  <li><a href="/">Contact</a></li>
</ul>
```

You need to implement the design.

What should you do? (To answer, select the appropriate options in the answer area.)

## Work Area

```
ul#nav {  
  font-size: 1.3em;  
  font-weight: 600;  
}
```

```
ul#nav li {
```

```
  text-align: center;  
}
```

```
ul#nav li a {
```

```
  color: #FFF;
```

```
  border-radius: 12px 12px 0 0;
```

```
  padding: 0 12px 0 12px;
```

```
  margin: 0 4px 0 4px;
```

```
}
```

```
ul#nav li a:hover {
```

```
  color: #333;
```

```
}
```

## Work Area

```
ul#nav {
    font-size: 1.3em;
    font-weight: 600;
}

ul#nav li {
    float: left;
    background-color: #ffd800;
    background-color: #2da4c2;
    text-decoration: none;

    text-decoration: none;
    list-style: none;
    border-radius: 15px;
    word-wrap: break-word;

    text-align: center;
}

ul#nav li a {
    background-clip: border-box;
    background-color: #2da4c2;
    border-radius: 15px;
    word-wrap: break-word;

    color: #FFF;

    background-clip: padding-box;
    text-decoration: none;
    background-color: #ffd800;
    float: left;

    border-radius: 12px 12px 0 0;
    padding: 0 12px 0 12px;
    margin: 0 4px 0 4px;
}

ul#nav li a:hover {
    color: #333;

    float: left;
    background-color: #ffd800;
    background-color: #2da4c2;
    list-style: none;

    cursor: pointer;
    background-clip: border-box;
    text-decoration: none;
    background-origin: border-box;
}
```

- A. Mastered  
 B. Not Mastered

Answer: A

Explanation:



Work Area

```

ul#nav {
  font-size: 1.3em;
  font-weight: 600;
}

ul#nav li {
  float: left;
  background-color: #ffd800;
  background-color: #2da4c2;
  text-decoration: none;

  text-decoration: none;
  list-style: none;
  border-radius: 15px;
  word-wrap: break-word;
  text-align: center;
}

ul#nav li a {
  background-clip: border-box;
  background-color: #2da4c2;
  border-radius: 15px;
  word-wrap: break-word;

  color: #FFF;

  background-clip: padding-box;
  text-decoration: none;
  background-color: #ffd800;
  float: left;

  border-radius: 12px 12px 0 0;
  padding: 0 12px 0 12px;
  margin: 0 4px 0 4px;
}

ul#nav li a:hover {
  color: #333;

  float: left;
  background-color: #ffd800;
  background-color: #2da4c2;
  list-style: none;

  cursor: pointer;
  background-clip: border-box;
  text-decoration: none;
  background-origin: border-box;
}

```

## NEW QUESTION 51

### DRAG DROP

You need to ensure that the transcode.exe utility is installed before the worker role starts. How should you implement the startup task? (To answer, drag the appropriate values to the correct element or attribute. Each value 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.)

Variable  
Environment  
foreground  
background  
simple

```

<Startup>
  <Task commandLine="msiexec transcode.msi" taskType=" " >
    < >
    < name="license" value="825534"></ >
    </ >
  </Task>
</Startup>

```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



#### NEW QUESTION 52

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(VaryByCustom = "gzip", VaryByContentEncoding = "all", Location = OutputCacheLocation.Any,)]`
- B. `[OutputCache(Location = OutputCacheLocation.Any, VaryByParam = "videoId", VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, ";q=0")]`
- C. `[OutputCache(Location = OutputCacheLocation.Downstream, VaryByParam = "gzip", VaryByCustom = "browser")]`
- D. `[OutputCache(Location = OutputCacheLocation.Downstream, Order=1, VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, ";q=0")]`
- E. `[OutputCache(VaryByHeader = "Cache-Control", Location = OutputCacheLocation.ServerAndClient, CacheProfile = "gzip")]`

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Answer: B

#### NEW QUESTION 54

DRAG DROP

You need to ensure that the transcode.exe utility is installed before the worker role starts. You have the following markup:

```
<Startup>
  <Task commandLine="msiexec transcode.msi" taskType="Target 1">
    <Target 2>
      <Target 3 name="license" value="825534"></Target 4>
    </Target 5>
  </Task>
</Startup>
```

Which markup segments should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to implement the startup task? To answer, drag the appropriate markup segments to the correct targets. Each markup segments 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.

### Markup Segments

Variable

Environment

foreground

background

simple

### Answer Area

Target 1: Markup Segment

Target 2: Markup Segment

Target 3: Markup Segment

Target 4: Markup Segment

Target 5: Markup Segment

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

Target 1: simple  
 Target 2: Environment  
 Target 3: Variable  
 Target 4: Variable  
 Target 5: Environment

**NEW QUESTION 56**

You need to ensure that developers can connect to a Microsoft Azure role by using RDP. What should you do?

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

**Answer:** A

**Explanation:**

In case you don't want to use the RDP certificate created by Windows Azure 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 Visual Studio 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' -> Next -> Continue with default setting and create a password when asked (please refer below screenshots)
4. These steps will generate a .PFX file for this certificate. Now we need to upload this certificate to the portal (for the respective cloud service)
5. Go to the Azure Management Portal -> Go to the Cloud Service in question -> Certificates Tab -> Upload the newly created certificate (.PFX file)

Note:

\* The certificates that you need for a remote desktop connection are different from the certificates that you use for other Azure operations. The remote access certificate must have a private key.

\* Microsoft Azure uses certificates in three ways:

/ Management certificates – Stored at the subscription level, these certificates are used to enable the use of the SDK tools, the Windows Azure Tools for Microsoft Visual Studio, or the Service Management REST API Reference. These certificates are independent of any cloud service or deployment.

/ Service certificates – Stored at the cloud service level, these certificates are used by your deployed services.

/ SSH Keys – Stored on the Linux virtual machine, SSH keys are used to authenticate remote connections to the virtual machine.

Reference: How to use Custom Certificate for RDP to Windows Azure Roles <http://blogs.msdn.com/b/cie/archive/2014/02/22/how-to-use-custom-certificate-for-rdp-to-windows-azure-roles.aspx>

**NEW QUESTION 60**

You need to secure the administrative functions for all MVC controllers.

Which code segment should you use as the body for the CreateController method in AdminVerifierFactory.cs?



A

```
if (requestContext.RouteData.Values["VideoAdmin"] == null)
    throw new Exception("VideoAdmin not found");

return base.CreateController(requestContext, controllerName) as
Controller;
```

B

```
var controller = base.CreateController
(requestContext, controllerName) as Controller;
var attributes = controller.GetType().Attributes.ToString();
if (!attributes.Contains("VideoAdminAttribute"))
    throw new Exception("VideoAdminAttribute not found");

return controller;
```

C

```
if (requestContext.HttpContext.Items["VideoAdmin"] == null)
    throw new Exception("VideoAdmin not found");

return base.CreateController(requestContext, controllerName) as
Controller;
```

D

```
var controller = base.CreatorController
(requestContext, controllerName) as Controller;
var hasFilter = controller.GetType().CustomAttributes.Any
(x => x.AttributeType.Name == "VideoAdminAttribute");
if (!hasFilter == null)
    throw new Exception("VideoAdminAttribute not found");

return controller;
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: D

#### Explanation:

The MemberInfo.CustomAttributes property gets a collection that contains this member's custom attributes.

The Any() statement will either return null or a collection of matched custom attributes. If it matches one or more, the controller is secure, otherwise an exception is thrown.

From scenario: The application contains a header that is visible on every page.

If the logged-on user is an administrator, then the header will contain links to administrative functions. This information is read from a cookie that is set on the server. The administrative links must not be present if an error condition is present.

Incorrect:

Not B: controller.GetType().Attributes will not return custom attributes. References: [https://msdn.microsoft.com/en-us/library/system.reflection.memberinfo.customattributes\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.reflection.memberinfo.customattributes(v=vs.110).aspx)

Case Study: 4, Mixed Question s

#### NEW QUESTION 61

- (Exam Topic 4)

You are developing an ASP.NET Core MVC web application that uses custom security middleware. The middleware will add a response header to stop pages

form loading when reflected cross-site scripting (XSS) attacks are detected.

The security middleware component must be constructed once per application lifetime. You need to implement the middleware.

How should you complete the code? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

## Answer Area

```
public class SecurityMiddleware
{
    private readonly RequestDelegate _next;
    public SecurityMiddleware(RequestDelegate next)
    {
        _next = next;
    }
    public Task Invoke(HttpContext httpContext)
    {
        httpContext.Response.Headers.Add("X-XSS-Protection", "1; mode=block");
        return _next.Invoke(httpContext)
_next(httpContext)
_next.DynamicInvoke(httpContext) ;
    }
}

public static class SecurityMiddlewareExtensions
{
    public static IApplicationBuilder UseSecurityMiddleware
UseMiddleware <SecurityMiddleware>
SecurityMiddleware (this IApplicationBuilder builder)
    {
        return builder.
    }
}

public class Startup
{
    . . .
    public void Configure(IApplicationBuilder app, IHostingEnvironment env)
    {
        . . .
        app. UseSecurityMiddleware
UseAuthentication
UseIdentity
        . . .
    }
}
```

- A. Mastered  
 B. Not Mastered

**Answer:** A

### Explanation:

Box 1: return \_next(httpContext); Example:

```
public Task Invoke(HttpContext httpContext)
```

```
{
    httpContext.Response.Headers.Add("X-Xss-Protection", "1"); httpContext.Response.Headers.Add("X-Frame-Options", "SAMEORIGIN");
    httpContext.Response.Headers.Add("X-Content-Type-Options", "nosniff"); return _next(httpContext);
}
```

Box 2: UseSecurityMiddleware

Box 3: UseMiddleware<SecurityMiddleware>() Example:

```
public static class SecurityMiddlewareExtensions
```

```
{
    public static IApplicationBuilder UseSecurityMiddleware(this IApplicationBuilder builder)
    {
        return builder.UseMiddleware<SecurityMiddleware>();
    }
}
```



```
}
Box 4: UseSecurityMiddleware
The Extensions part is optional, but it does allow you to write code like this :
public void Configure(IApplicationBuilder app, IHostingEnvironment env, ILoggerFactory loggerFactory)
{
app.UseMiddleware<SecurityMiddleware>(); //If I didn't have the extension method app.UseSecurityMiddleware(); //Nifty encapsulation with the extension
}
```

#### NEW QUESTION 64

- (Exam Topic 4)

You are developing an ASP.NET Core MVC web application. The application uses a custom tool named sectarget that performs security audits of the web application's assemblies. The custom tool was built in netstandard1.1 and is packaged into a NuGet package named sectarget.

You need to ensure that the custom tool is run each time the web application is built or published and that the latest version of sectarget is used each time the tool is run.

How should you complete the markup? To answer, drag the appropriate XML segments to the correct locations. Each XML 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.

XML segments

\*
1.1
Include
Condition
Package
PackageReference
DotNetCliToolReference
Item

Answer area

```

<Project Sdk="Microsoft.NET.Sdk" ToolsVersion="15.0">
  <PropertyGroup>
    <TargetFramework>netcoreapp1.1</TargetFramework>
    <OutputType>Exe</OutputType>
  </PropertyGroup>
  . . .
  <ItemGroup>
    < XML segment XML segment = " sectarget " Version = XML segment />
  </ItemGroup>
</Project>

```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

XML segments

\*
1.1
Include
Condition
Package
PackageReference
DotNetCliToolReference
Item

Answer area

```

<Project Sdk="Microsoft.NET.Sdk" ToolsVersion="15.0">
  <PropertyGroup>
    <TargetFramework>netcoreapp1.1</TargetFramework>
    <OutputType>Exe</OutputType>
  </PropertyGroup>
  . . .
  <ItemGroup>
    < PackageReference Include = " sectarget " Version = * />
  </ItemGroup>
</Project>

```

#### NEW QUESTION 68

- (Exam Topic 4)

DRAG DROP



You are developing an ASP.NET MVC application. The application has a view that displays a list of orders in a multi-select list box.

You need to enable users to select multiple orders and submit them for processing.

What should you do? (To answer, drag the appropriate words to the correct targets. Each word 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.)

**Words**

model binder  
 model  
 http context  
 binding context  
 http handler

**Answer area**

Create a custom Word  
 and retrieve selected values from the Word .

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Words**

model binder  
 model  
 http context  
 binding context  
 http handler

**Answer area**

Create a custom model binder  
 and retrieve selected values from the binding context .

**NEW QUESTION 72**

- (Exam Topic 4)

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

**Answer:** A

**Explanation:**

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/>

**NEW QUESTION 74**

- (Exam Topic 4)

You are designing a localized ASP.NET application to support multiple cultures. You need to ensure that the application can be displayed in several languages.

How should you implement this feature?

- A. Use a resource (.resx) file.
- B. Include language-specific content in the assembly manifest.
- C. Use Systems.Collections.Generic.Dictionary to store alternative translations.
- D. Ensure that all strings are marked internal.

**Answer:** A

**NEW QUESTION 78**

- (Exam Topic 4)

You develop an ASP.NET MVC application that includes the following class. Line numbers are included for reference only.

```
01 using System.Collections.Generic;
02 namespace RazorTemplate.Models
03 {
04     public class Person
05     {
06         public string Name { get; set; }
07         public List<Person> Friends { get; set; }
08     }
09 }
```

You must use the Razor view engine to display all property values for the class. You need to implement the view. How should you complete the relevant code?

```
@model RazorTemplate.Models.Person
@if (Model != null)
{
    <div>Person's Name: <div>
        @Model
        Model.Name
        @Model.Name
        Model.ToString()
    </div>
    <div>Friends' Names</div>
        @Model.Friends.ToList()
        @Model.Friends.GetEnumerator()
        @foreach (var item in Model.Friends)
        @for (var index = 0; index > Model.Friends.Count; index++)
    {
        <div>
            @item
            @item.Name
            @item.Friends
            @item.Friends.IndexOf(item)
        </div>
    }
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
@model RazorTemplate.Models.Person
@if (Model != null)
{
    <div>Person's Name: </div>
    <div>
        @Model
        Model.Name
        @Model.Name
        Model.ToString()
    </div>
    <div>Friends' Names</div>
    <div>
        @Model.Friends.ToList()
        @Model.Friends.GetEnumerator()
        @foreach (var item in Model.Friends)
        @for (var index = 0; index < Model.Friends.Count; index++)
    </div>
}
```

## NEW QUESTION 82

- (Exam Topic 4)

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 are developing an ASP.NET Core MVC web application.

The application must be exposed to external users over ports 80 and 443 and must meet the following requirements:

- ▶ Handle more than 1024 simultaneous connections.
- ▶ Support Windows authentication.
- ▶ Support HTTP/2 over TLS.
- ▶ Include response caching.
- ▶ Protect against denial-of-service attacks.

You need to deploy the application to an on-premises web server.

Solution: You deploy the application to a Windows server that runs Kestrel with a default Nginx reverse proxy.

Does the solution meet the goal?

- A. Yes
- B. No

Answer: B

## NEW QUESTION 84

- (Exam Topic 4)

DRAG DROP

You are developing an ASP.NET MVC web application that requires HTML elements to take on new behaviors. These should be implemented with a behavior script in a page that is only for Microsoft Internet Explorer users.

The colorchange.js script uses the Microsoft CSS vendor-specific Behavior extension. You need to apply the script with CSS.

You need to use the script to change the color of text. You have the following markup:

```
<h1 Target 1 Target 2>What a colorful header!</h1>
```

Which styles should you include in Target 1 and Target 2 to complete the markup? (To answer, drag the appropriate styles to the correct targets. Each style 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.)



Styles

style="behavior:

style="url:

style="behaviorurl:

Styles

url(colorchange.js);"

behavior(colorchange.js);"

colorchange.js;"

Answer area

Target 1: 

Style

Target 2: 

Style

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Styles

style="behavior:

style="url:

style="behaviorurl:

Styles

url(colorchange.js);"

behavior(colorchange.js);"

colorchange.js;"

Answer area

Target 1: 

style="behavior:

Target 2: 

url(colorchange.js);"

### NEW QUESTION 88

- (Exam Topic 4)

You are developing an ASP.NET MVC application.

You need to choose the appropriate Visual Studio templates to use for each test goal.

Which Visual Studio Unit Test project templates should you use? To answer, drag the appropriate Unit Test project template to the correct test goal or test goals.

Each project template 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.

| Project templates                     | Test goal   | Unit Test project template |
|---------------------------------------|---|----------------------------|
| Coded UI Test Project                 | Validate the input controls an a web application.                     | Project template           |
| Unit Test Project                     | Test the internal validity of calculations in class methods.          | Project template           |
| Web Performance and Load Test Project | Test the web application speed while retrieving data from SQL Server. | Project template           |
|                                       | Validate the number of simultaneous users for a social portal.        | Project template           |

- A. Mastered  
B. Not Mastered

Answer: A

**Explanation:**

Box 1: Coded UI Test Project

Automated tests that drive your application through its user interface (UI) are known as coded UI tests (CUITs). These tests include functional testing of the UI controls. They let you verify that the whole application, including its user interface, is functioning correctly. Coded UI Tests are particularly useful where there is validation or other logic in the user interface, for example in a web page. They are also frequently used to automate an existing manual test.

Box 2: Unit Test Project

Unit testing is a software testing method by which individual units of source code, sets of one or more computer program modules together with associated control data, usage procedures, and operating procedures, are tested to determine whether they are fit for use.[1] Intuitively, one can view a unit as the smallest testable part of an application.

Box 3: Web Performance and Load Test Project Box 4: Web Performance and Load Test Project

A load test is a container of Web performance tests and unit tests.

A load test exposes many run-time properties that can be modified to generate the desired load simulation. References: <https://msdn.microsoft.com/en-us/library/dd286726.aspx>

References: [https://msdn.microsoft.com/en-us/library/ms182594\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/ms182594(v=vs.110).aspx)

**NEW QUESTION 91**

- (Exam Topic 4)

You are developing an ASP.NET MVC application.

You need to authenticate clients by using NT LAN Manager (NTLM). Which authentication method should you implement?

- A. Basic
- B. Windows
- C. Forms
- D. Kerberos

**Answer: B**

**Explanation:**

References:

[http://msdn.microsoft.com/en-us/library/aa292114\(v=vs.71\).aspx](http://msdn.microsoft.com/en-us/library/aa292114(v=vs.71).aspx)

**NEW QUESTION 92**

- (Exam Topic 4)

You are developing an ASP.NET Core MVC web application that provides assets to external websites including images, JavaScript scripts and text files.

The external websites must be able to make full use of assets provided to them by the web application, including JavaScript asynchronous HTTP requests.

Pages that refer to the images and text files do not load. External websites are unable to use assets. You need to resolve the issues.

What should you do?

- A. Add a MVC controller and action to load the files from the folder.
- B. In the startup Configure method, call `IApplicationBuilder`
- C. Use `StaticFiles` for the folder that contains the files.
- D. In the startup `ConfigureServices` method, call `IServiceCollection`
- E. Add `DirectoryBrowser` for the folder that contains the files.
- F. Mark vendor provided files as content and set the value for `Copy to Output Directory` to `CopyAlways`

**Answer: B**

**Explanation:**

References:

<https://docs.microsoft.com/en-us/aspnet/core/fundamentals/middleware/?view=aspnetcore-2.1&tabs=aspnetcore>

**NEW QUESTION 96**

- (Exam Topic 4)

You develop an application that receives data input from users and from Internet of Things (IoT) devices across the Internet.

You must secure all data connections.

You need to implement security by using classes from the System.Net namespace.

Which classes should you use? To answer, drag the appropriate classes to the correct scenarios. Each class 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.

| Classes           | Scenario                               | Class |
|-------------------|--|-------|
| SocketPermission  | Serve a URI to the Internet.           | Class |
| SecretPermissions | Use WebRequest to manage permissions.  | Class |
| WebResponse       | Connect to a remote transport address. | Class |
| WebPermission     |  |       |

- A. Mastered  
 B. Not Mastered

Answer: A

**Explanation:**

Box 1: WebPermission

Box 2: WebPermission

Box 3: SocketPermission References:

<https://docs.microsoft.com/en-us/dotnet/framework/network-programming/web-and-socket-permissions>

**NEW QUESTION 101**

- (Exam Topic 4)

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.

Answer: B

**Explanation:**

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>

**NEW QUESTION 102**

- (Exam Topic 4)

You are developing an ASP.NET Core MVC web application. The application is configured to use a Startup class.

The /status action must be tested on each check-in to source control. You need to test the application.

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.

| Code segments    | Answer area   |
|------------------|---|
| TestServer       | <pre> public async Task Test {     var server = new Code segment ( new Code segment ()         .UseStartup&lt;Startup&gt;());     var client = server.CreateClient();     var result = await client.GetAsync("/status");     . . . } </pre> |
| WebHost          |   |
| WebHostBuilder   |   |
| Build            |   |
| TestStringParser |   |



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Example: Specify the Startup class with the WebHostBuilderExtensions UseStartup<TStartup> method: public class Program

```
{
public static void Main(string[] args)
{
BuildWebHost(args).Run();
}
public static IWebHost BuildWebHost(string[] args) => WebHost.CreateDefaultBuilder(args) UseStartup<Startup>()
Build();
}
```

References: <https://docs.microsoft.com/en-us/aspnet/core/fundamentals/startup?view=aspnetcore-2.1>

**NEW QUESTION 107**

- (Exam Topic 4)

You are developing an ASP.NET Core MVC web application.

You write a Gulp task to automatically minify and upload JavaScript CSS, and image files to Microsoft Azure CDN.

You need to ensure that the minification and upload tasks run automatically after every build in Microsoft Visual Studio Professional.

Which tool should you use?

- A. Visual Studio Build Continuous Delivery tool
- B. Bower Package manager
- C. Azure Publish Dialog's Connected Services section
- D. Visual Studio Batch Build dialog
- E. Task Runner Explorer After Build binding

**Answer:** E

**Explanation:**

References: <https://blogs.msdn.microsoft.com/webdev/2016/01/06/task-runners-in-visual-studio-2015/>

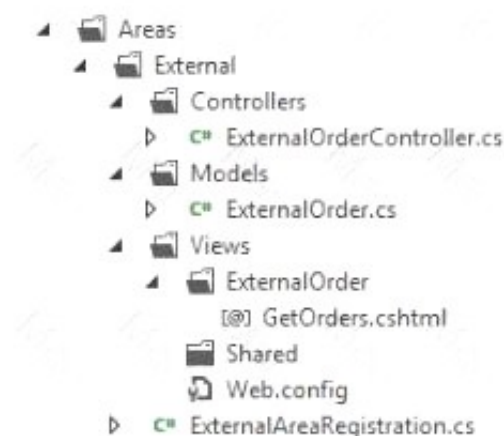
**NEW QUESTION 111**

- (Exam Topic 4)

DRAG DROP

You are developing an ASP.NET MVC application in Visual Studio.

The application contains an area that is defined as shown in the following graphic.



The ActionLink method must invoke the GetOrders() action in ExternalOrderController. You need to configure the parameters of the ActionLink method.

You have the following markup.

```
<li>
    @Html.ActionLink(
        "ViewExternalOrders",
        Target 1
        Target 2
        new { area = Target 3 }
        ,null
    )
</li>
```

Which markup segments should you include in Target 1, Target 2 and Target 3 to complete the markup? To

answer, drag the appropriate markup segment to the correct targets. Each markup 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.

## Markup Segments

"GetOrders",

"External",

"ExternalOrder",

"ExternalOrderController",

## Answer area

Target 1:

Markup Segment

Target 2:

Markup Segment

Target 3:

Markup Segment

- A. Mastered  
B. Not Mastered

Answer: A

### Explanation:

Target 1: "GetOrders",

Target 2: "ExternalOrderController",

Target 3: External,

Target 1: the action is getOrders

Target 2: the controller is ExternalOrderController Target 3: The area is External

LinkExtensions.ActionLink Method (HtmlHelper, String, String, String, RouteValueDictionary, IDictionary<String, Object>)

Use:

Html.ActionLink("Text", "ActionName", "ControllerName", new { Area = "AreaName" }, null)

References:

### NEW QUESTION 114

- (Exam Topic 4)

### HOTSPOT

You develop a new ASP.NET MVC web application. The application is hosted in an Azure Web Role. It includes the following code. Line numbers are included for reference only.

```
01 public override void OnStop()
02 {
03     Trace.TraceInformation("OnStop called within Web Role");
04     var performanceCounterCurrentRequests = new PerformanceCounter("ASP.NET", "Requests Current", "");
05     while (true)
06     {
07         var currentRequestsCount = performanceCounterCurrentRequests.NextValue();
08         Trace.TraceInformation("ASP.NET Requests Current = " + currentRequestsCount);
09         if (currentRequestsCount <= 0)
10         {
11             break;
12         }
13         System.Threading.Thread.Sleep(1000);
14     }
15 }
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

### Answer Area

Yes

No

|   |                       |                       |
|---|-----------------------|-----------------------|
| When the web server is so busy that the pending requests cannot be completed in five minutes, the Web role is shut down.      | <input type="radio"/> | <input type="radio"/> |
| When an unhandled exception occurs within the Web role, the Stopping event is raised, and the <b>OnStop</b> method code runs. | <input type="radio"/> | <input type="radio"/> |
| The Web role initiates a shutdown immediately following the return of the <b>OnStop</b> method code.                          | <input type="radio"/> | <input type="radio"/> |

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Answer Area

|   | Yes                                 | No                                  |
|---|-------------------------------------|-------------------------------------|
| When the web server is so busy that the pending requests cannot be completed in five minutes, the Web role is shut down.      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| When an unhandled exception occurs within the Web role, the Stopping event is raised, and the <b>OnStop</b> method code runs. | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| The Web role initiates a shutdown immediately following the return of the <b>OnStop</b> method code.                          | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

#### NEW QUESTION 119

- (Exam Topic 4)

You are developing an ASP.NET MVC application. The application uses a set of custom exceptions to log errors that occur during the execution of an action. You need to develop a class that implements logging. Which interface should you implement?

- A. IExceptionHandler
- B. IActionFilter
- C. IClientValidatable
- D. IResultFilter

Answer: A

Explanation:

Exception filters are used to apply global policies to unhandled exceptions in the MVC app. Exception Filters implement either the IExceptionHandler or IAsyncExceptionHandler interface.

Exception filters handle unhandled exceptions, including those that occur during controller creation and model binding. They are only called when an exception occurs in the pipeline.

#### NEW QUESTION 124

- (Exam Topic 4)

You are designing a localized ASP.NET MVC online shopping application that will be deployed to customers in the United States, China, France, and Brazil. The application must support multiple cultures so that content in the appropriate language is available in each area. You need to ensure that the content can be viewed in several languages. How should you implement this feature?

- A. Use a resource (.resx) file to provide translations.
- B. Use Systems.Collections.Generic.Dictionary to store alternative translations.
- C. Ensure that all strings are marked internal to avoid conflict with internal literals.
- D. Include language-specific content in the assembly manifest and use .NET culture libraries.

Answer: A

Explanation:

A resource file is an XML file that contains the strings that you want to translate into different languages or paths to images. The resource file contains key/value pairs. Each pair is an individual resource. Key names are not case sensitive. For example, a resource file might contain a resource with the key Button1 and the value Submit.

You create a separate resource file for each language (for example, English and French) or for a language and culture (for example English [U.K.], English [U.S.]). Each localized resource file has the same key/value pairs; the only difference is that a localized resource file can contain fewer resources than the default resource file. The built-in language fallback process then handles loading the neutral or default resource.

#### NEW QUESTION 125

- (Exam Topic 4)

You deploy an ASP.NET MVC Web application to Internet Information Services (IIS). The application has a secure area that provides access to custom reports. You must develop custom business logic to support the reports. The custom business logic has the following requirements:

- It must run each time that a report is requested.
- It must not run for other IIS requests.
- It must be mapped to the request extension of the report.
- It must be written by using a managed language that is supported by the .NET framework.

You must be able to quickly modify and deploy updates to the business logic. You need to develop the custom business logic. What should you do?

- A. Update the report logic to include the custom business logi
- B. Use WebDAV to publish the reports to the server.
- C. Develop a new HTTP module that includes the custom business logi
- D. Deploy the HTTP module to IIS.
- E. Develop a new HTTP handler that includes the custom business logi
- F. Deploy the HTTP handler to IIS.
- G. Develop a new ISAPI filter that includes the custom business logi
- H. Deploy the ISAPI filter to IIS.



Answer: C

**Explanation:**

An ASP.NET HTTP handler is the process that runs in response to a request that is made to an ASP.NET Web application.

ASP.NET maps HTTP requests to HTTP handlers based on a file name extension. Incorrect:

Not B: HTTP modules differ from HTTP handlers. An HTTP handler returns a response to a request that is identified by a file name extension or family of file name extensions. In contrast, an HTTP module is invoked for all requests and responses. It subscribes to event notifications in the request pipeline and lets you run code in registered event handlers.

References: <https://msdn.microsoft.com/en-us/library/bb398986.aspx>

**NEW QUESTION 130**

- (Exam Topic 4)

You are developing an ASP.NET MVC application that takes customer orders. Orders are restricted to customers with IP addresses based in the United States.

You need to implement a custom route handler.

You have the following code:

```
public class USOnlyRouteHandler : Target 1
{
    public Target 2 GetHttpHandler (Target 3
        requestContext)
    {
        // TODO: Implement the GetHttpHandler method
        return new USPIHandler (requestContext);
    }
}
```

Which code segments should you include in Target1, Target 2 and Target 3 to implement the route handler? To answer, drag the appropriate code segments 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.

NOTE: Each correct selection is worth one point.

**Code Segments**

IHttpHandler

IHttpConstraint

IRouteFactory

RequestContext

IRouteHandler

ServerContext

**Answer area**

Target 1: Code Segment

Target 2: Code Segment

Target 3: Code Segment

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Example:

This class implements IRouteHandler and has only one method "GetHttpHandler". The main purpose of this class is to return the instance of CustomHandler class. In the constructor, we are passing the RequestContext to the handler.

```
{
public class CustomRouteHandler : IRouteHandler
{
public IHttpHandler GetHttpHandler(RequestContext requestContext)
{
return new CustomHandler(requestContext);
}
}
```

References:

<http://msdn.microsoft.com/en-us/library/system.web.routing.iroutehandler.gethttphandler.aspx>

**NEW QUESTION 131**

- (Exam Topic 4)

You are developing an asynchronous HTTP module to write log messages. The logText variable stores the message that you must log.

You need to implement the asynchronous HTTP module.

```
public class AsyncHttpModule : IHttpModule
{
    public void Init(HttpApplication context)
    {
        var taskAsyncHelper = new EventArgs();
        var taskAsyncHelper = new AsyncHttpModule();
        var taskAsyncHelper = AsyncHttpModule.LogMessage(null, null);
        var taskAsyncHelper = new EventHandlerTaskAsyncHelper(LogMessage);
    }
    private static async Task LogMessage(object sender, EventArgs e)
    {
        using (var streamWriter = new StreamWriter(@"Logs/RequestLogs.txt", true))
        {
            var logText = String.Format("The page requested is: {0}\nRequested at: {1}",
                ((HttpApplication)sender).Context.Request.RawUrl, DateTime.Now);

            streamWriter.Flush();
            streamWriter.WriteLine(logText);
            await streamWriter.FlushAsync();
            await streamWriter.WriteLineAsync(logText);
        }
    }
}
```

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

```
public class AsyncHttpModule : IHttpModule
{
    public void Init(HttpApplication context)
    {
        var taskAsyncHelper = new EventArgs();
        var taskAsyncHelper = new AsyncHttpModule();
        var taskAsyncHelper = AsyncHttpModule.LogMessage(null, null);
        var taskAsyncHelper = new EventHandlerTaskAsyncHelper(LogMessage);
    }
    private static async Task LogMessage(object sender, EventArgs e)
    {
        using (var streamWriter = new StreamWriter(@"Logs/RequestLogs.txt", true))
        {
            var logText = String.Format("The page requested is: {0}\nRequested at: {1}",
                ((HttpApplication)sender).Context.Request.RawUrl, DateTime.Now);

            streamWriter.Flush();
            streamWriter.WriteLine(logText);
            await streamWriter.FlushAsync();
            await streamWriter.WriteLineAsync(logText);
        }
    }
}
```

#### NEW QUESTION 134

- (Exam Topic 4)

You manage an application that has a custom API. Your company purchases another company. Employees from the purchased company use their own Microsoft Azure Active Directory (Azure AD).

You need to reconfigure the application to ensure that all users can access the application by using the API. You have the following requirements:

- ▶ Implement authentication for Azure API management.
- ▶ Configure the API gateway for proper authorization.
- ▶ Integrate metrics into one dashboard.
- ▶ Apply additional restrictions to all roles.

What should you implement? To answer, configure the appropriate options in the dialog box in the answer area.

NOTE: Each correct selection is worth one point.

## Answer Area

### Requirement

### Capability

Provide authentication for API management.

▼

Azure virtual networks

Groups

Ipsec VPN

Configure the gateway.

▼

Transforms

Operations

Policies

Integrate metrics into one dashboard.

▼

Application Insights

Azure Monitor

Log analytics

Stream Analytics

Add restrictions for all users.

▼

Active Directory Domain Services (AD DS)

Azure Key Vault

Role-Based Access Control (RBAC)

- A. Mastered  
 B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: Groups

Add an external Azure AD group

After you enable access for users in an Azure AD instance, you can add Azure AD groups in API Management. Then, you can more easily manage the association of the developers in the group with the desired products.

To configure an external Azure AD group, you must first configure the Azure AD instance on the Identities tab by following the procedure in the previous section.

You add external Azure AD groups from the Groups tab of your API Management instance. Box 2: Policies

Policies are applied inside the gateway which sits between the API consumer and the managed API. The gateway receives all requests and usually forwards them unaltered to the underlying API. However a policy can apply changes to both the inbound request and outbound response.

Box 3: Application Insights

Application Insights is an extensible Application Performance Management (APM) service for web developers on multiple platforms. Use it to monitor your live web application.

Box 4: Role-Based Access Control (RBAC) Apply additional restrictions to all roles.

Azure API Management relies on Azure Role-Based Access Control (RBAC) to enable fine-grained access management for API Management services and entities (for example, APIs and policies).

References:

<https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-aad> <https://docs.microsoft.com/en-us/azure/api-management/api-management-howto-policies> <https://docs.microsoft.com/en-us/azure/api-management/api-management-role-based-access-control>

#### NEW QUESTION 137

- (Exam Topic 4)

DRAG DROP

You are developing an ASP.NET web application that uses health monitoring to log events to the Windows Event Log. The application contains a custom event that is defined in the following code segment. Line numbers are included for reference only.

You need to ensure that the event is correctly added to the Windows event log.

How should you complete the relevant code? 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.



### Code segments

.WebExtendedBase + 30

.ApplicationCodeBase + 30;

.ApplicationDetailCodeBase + 30;

.FormatCustomEventDetails(null);

.Raise();

.Concat()

### Answer Area

```

public ActionResult myResult()
{
    var code = WebEventCodes
    var outage = new PaymentProcessorOutage(this, code);
    outage
    return Content("done");
}
                
```

Code segment

Code segment

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

ApplicationDetailCodeBase: Identifies the offset for the application detail event codes. This field is constant. WebRequestEvent.Raise()  
 Raises an event by notifying any configured provider that the event has occurred. (Inherited from WebBaseEvent.)  
[https://msdn.microsoft.com/en-us/library/system.web.management.webrequestevent\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.web.management.webrequestevent(v=vs.110).aspx)

**NEW QUESTION 142**

- (Exam Topic 4)

You are developing an ASP.NET MVC application that will be deployed to servers on multiple networks. The application must be compatible with multiple browsers. You must track the page number that the user is viewing in search results.

You need to program the location for storing state information. Where should you persist state information?

- A. Session  
 B. QueryString  
 C. Application  
 D. TempData

**Answer:** B

**NEW QUESTION 145**

- (Exam Topic 4)

Your company uses Microsoft Azure DevTest Labs for testing applications.

The DevTest Labs environment must provide a preconfigured base image for a virtual machine that can be used for all development efforts. The virtual machine must be able to be reproduced in various environments.

You need to provision the virtual machine. What should you implement?

- A. custom images  
 B. formulas  
 C. Marketplace images  
 D. artifacts

**Answer:** B

**Explanation:**

References:

<https://docs.microsoft.com/en-us/azure/lab-services/devtest-lab-comparing-vm-base-image-types> <https://blogs.msdn.microsoft.com/devtestlab/2016/04/06/custom-images-or-formulas/>

**NEW QUESTION 150**

- (Exam Topic 4)

HOTSPOT

You are using the features of the IIS SEO Toolkit to configure the website. You need to exclude search engines from indexing parts of website.

What should you do? (To answer, select the appropriate option from the drop-down list in the answer area.)

## Answer Area

Use the  feature in the IIS

exclude  
 disallow  
 User-Agent.Exclusion  
 Robots Exclusion  
 robots.txt  
 exclusions.txt

Search Engine Optimization Toolkit to create a

exclude  
 disallow  
 User-Agent.Exclusion  
 Robots Exclusion  
 robots.txt  
 exclusions.txt

file and add  rules.

exclude  
 disallow  
 User-Agent.Exclusion  
 Robots Exclusion  
 robots.txt  
 exclusions.txt

- A. Mastered  
 B. Not Mastered

Answer: A

Explanation:  
 Answer Area

Use the  feature in the IIS

exclude  
 disallow  
 User-Agent.Exclusion  
 Robots Exclusion  
 robots.txt  
 exclusions.txt

Search Engine Optimization Toolkit to create a

exclude  
 disallow  
 User-Agent.Exclusion  
 Robots Exclusion  
 robots.txt  
 exclusions.txt

file and add  rules.

exclude  
 disallow  
 User-Agent.Exclusion  
 Robots Exclusion  
 robots.txt  
 exclusions.txt

## NEW QUESTION 155

- (Exam Topic 4)

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 a custom formatter class to the Web API and implement the IOutputFormatter interface. Does the solution meet the goal?

- A. Yes  
 B. No

Answer: A

## NEW QUESTION 160

- (Exam Topic 4)

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

Answer: AB

NEW QUESTION 163

- (Exam Topic 4)

DRAG DROP

You are developing an ASP.NET MVC application that authenticates a user by using claims-based authentication. The application must:

- Use Windows Identity Foundation 4.5.
- Support the Windows Azure Access Control Service.

You need to implement authentication. You have the following code:

```
using Microsoft.IdentityModel.Claims;
public class IdentityClaim
{
    private string _identityProvider;
    private string _identityValue;
    public const string ACSPProviderClaim =
        "http://schemas.microsoft.com/accesscontrolservice/...";
    public IdentityClaim(Target 1 identity)
    {
        if (identity != null)
        {
            foreach (var claim in identity.Claims)
            {
                if (claim.Target 2 == Target 3 .NameIdentifier)
                {
                    _identityValue = claim.Value;
                }
                if (claim.Target 4 == ACSPProviderClaim)
                {
                    _identityProvider = claim.Value;
                }
            }
        }
    }
}
```

Which code segments should you include in Target 1, Target 2, Target 3 and Target 4 to build the class constructor? To answer, drag the appropriate code segment to the correct targets 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.

Code Segments

ClaimNames

ClaimTypes

IIdentityClaims

IClaimsIdentity

ClaimType

ClaimName

Answer area

Target 1:

Code Segment

Target 2:

Code Segment

Target 3:

Code Segment

Target 4:

Code Segment

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

Target 1: ClaimsIdentity  
Target 2: ClaimType  
Target 3: ClaimTypes  
Target 4: ClaimType  
Example: public class MyIdentityClaim  
{  
private string \_identityProvider; private string \_identityValue ;  
public const string ACSPProviderClaim = "  
http://schemas.microsoft.com/accesscontrolservice/2010/07/claims/identityprovider";  
public MyIdentityClaim(IClaimsIdentity identity)  
{  
if (identity != null)  
{  
foreach (var claim in identity.Claims)  
{  
if (claim.ClaimType == ClaimTypes.NameIdentifier)  
{  
\_identityValue = claim.Value;  
}  
}  
if (claim.ClaimType == ACSPProviderClaim)



```
{  
_identityProvider = claim.Value;  
}  
}  
}  
}
```

#### NEW QUESTION 165

- (Exam Topic 4)

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

**Answer:** C

#### NEW QUESTION 169

- (Exam Topic 4)

You develop an application. You deploy the application as a worker role to a staging environment in Microsoft Azure. You receive feedback from testers that the application is throwing errors. You need to ensure that you can remotely debug the application by using Server Explorer in Microsoft Visual Studio. What should you do?

- A. Explicitly attach the debugger to the WaWorkerHost.exe process.
- B. Republish the application using the Debug build configuration.
- C. In Server Explorer, right-click the application instance node and select Enable Debugging.
- D. Republish the application and enable IntelliTrace.

**Answer:** D

#### Explanation:

References:

<https://docs.microsoft.com/en-us/visualstudio/azure/vs-azure-tools-intellitrace-debug-published-cloud-services?>

#### NEW QUESTION 173

- (Exam Topic 4)

You are developing an ASP.NET Core MVC web application.

The application includes a C# type named InsuranceID that represents an insurance policy identifier for a customer. Each instance of InsuranceID is five alphanumeric characters followed by a dash and then four numbers (for example, abl2x-2323).

You need to ensure that Controller actions can accept values of type InsuranceID.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution. NOTE: Each correct selection is worth one point.

- A. Implement the IBinderTypeProviderMetadata interface.
- B. Implement the IModelBinder interface.
- C. Use a TypeConverter object.
- D. Implement the IBindingSourceMetadata interface.
- E. Implement the ITypeComp interface.

**Answer:** AC

#### NEW QUESTION 175

- (Exam Topic 4)

You are developing an ASP.NET Core web application in Microsoft Visual Studio. The project uses a file named package.json in reusable packages.

You must automate the build process to use a script minification strategy. Script minification must happen in parallel.

You need to ensure you can share and distribute packages and run the minification strategy.

Which tools should you use? To answer, drag the appropriate tools to the correct scenarios. Each tool 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.

## Tools

Bower

NuGet

Gulp

Node package manager

## Answer area

### Scenario

Execute processes in parallel.

Distribute packages.

### Tool

Tool

Tool

- A. Mastered  
B. Not Mastered

**Answer:** A

#### Explanation:

References:

<https://docs.microsoft.com/en-us/aspnet/core/client-side/using-gulp?view=aspnetcore-2.1>

#### NEW QUESTION 179

- (Exam Topic 4)

You are developing an ASP.NET MVC application that enables you to edit and save a student object. The application must not retrieve student objects on an HTTP POST request.

You need to implement the controller.

Which code segment should you use? (Each correct answer presents a complete solution. Choose all that apply.)

- ☐ A. 

```
public ActionResult EditStudent(int id, Student s)
{
    if (this.HttpContext.Request["ActionName"] == "GET")
    {
        c = RetrieveStudent(id);
    }

    if (this.HttpContext.Request["ActionName"] == "POST")
    {
        SaveStudent(s);
    }
    return View(s);
}
```
- ☐ B. 

```
[ActionName("GET")]
public ActionResult EditStudent(int id)
{
    var c = RetrieveStudent(id);
    return View(s);
}

[ActionName("POST")]
public ActionResult EditStudent(int id, Student s)
{
    SaveStudent(s);
    return View(s);
}
```
- ☐ C. 

```
[HttpGet]
public ActionResult EditStudent(int id)
{
    var c = RetrieveStudent(id);
    return View(s);
}

[HttpPost]
public ActionResult EditStudent(int id, Student s)
{
    SaveStudent(s);
    return View(s);
}
```
- ☐ D. 

```
public ActionResult EditStudent(int id, Student s)
{
    if (this.HttpContext.Request.RequestType == "GET")
    {
        c = RetrieveStudent(id);
    }

    if (this.HttpContext.Request.RequestType == "POST")
    {
        SaveStudent(s);
    }
    return View(c);
}
```

- A. Option A  
 B. Option B  
 C. Option C  
 D. Option D

Answer: CD

NEW QUESTION 180



- (Exam Topic 4)  
DRAG DROP

You are developing an ASP.NET MVC application that has pages for users who browse the site with Windows Phone 7. The pages for Windows Phone 7 include the following files:

- \_Layout.WP7.cshtml
- Index.WP7.cshtml

You need to update the application so that it renders the customized files correctly to Windows Phone 7 users. How should you update the Application\_Start method? (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.)

DefaultDisplayMode("WP7")

("Windows Phone OS",

StringComparison.OrdinalIgnoreCase

DefaultDisplayMode("Mobile")

("Mobile",

AreaRegistration.RegisterAllDevices();

```
protected void Application_Start()
{
    DisplayModeProvider.Instance.Modes.Insert(0, new
    {
        ContextCondition = (context =>
            context.GetOverriddenUserAgent().IndexOf
            ( "Windows Phone OS" ) >= 0)
    });

    AreaRegistration.RegisterAllAreas();
}
```

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:  
<http://techbrij.com/1013/display-mode-mobile-tablet-tv-aspnet-mvc>

NEW QUESTION 182

- (Exam Topic 4)

You plan to deploy an ASP.NET Core MVC web application to a Docker container. The root folder for the web application folder has a Windows PowerShell script named publish.ps1. The script contains the following code:

```
param ([string] $buildConfig)

$env: BuildType = $buildConfig

dotnet publish -c $buildConfig

docker build -t app.
```

You need to ensure that the Docker container can be deployed. 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.

aspnetcore

dotnet

nanoserver

{BuildType}\$

{env: BuildType}\$

env: BuildType\$

docker

Answer area

FROM Microsoft/ Code segment

WORKDIR /app

EXPOSE 80

COPY bin\ Code segment \PublishOutput .

ENTRYPOINT [ " Code segment " , "WebApplication.dll" ]

- A. Mastered  
B. Not Mastered

Answer: A

#### Explanation:

Example:

FROM microsoft/aspnetcore WORKDIR /app

COPY --from=builder /app . ENTRYPOINT ["dotnet", "myapp.dll"] Box 1: aspnetcore

From the DockerFile, you specify what base Docker image you'll be using (like using "FROM microsoft/dotnet:1.0.0-core").

Box 2: env:BuildType\$

Box 3: dotnet

#### NEW QUESTION 186

- (Exam Topic 4)

You are maintaining a load-balanced ASP.NET MVC web application. The load balancer uses the status endpoint to determine if the instance is healthy.

You monitor the application uptime by using multiple App Insight URL ping tests on the status endpoint. You track request latency for the application in Microsoft Azure Application Insight.

Your DevOps team reports that the application is behaving in unexpected ways. The latency of most requests is the same. Application Insights often falls back to sampling, and the sampling period is very high.

You need to ensure that the application provides the correct information.

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.

| Code segments       | Answer area   |
|---------------------|---|
| ITelemetryProcessor | public class NoiseReducer : <input type="text" value="code segment"/> |
| ITelemetry          | {   |
| TelemetryContext    | private readonly ITelemetryProcessor Next;                            |
| ITelemetryChannel   | public NoiseReducer(ITelemetryProcessor next)                         |
| RequestTelemetry    | {   |
|                     | Next = next;  |
|                     | }   |
|                     | public void Process(ITelemetry item)                                  |
|                     | {   |
|                     | var request = item as <input type="text" value="code segment"/>       |
|                     |   |
|                     | if (request == null    !request.Url.AbsolutePath.EndsWith("status" )) |
|                     | {   |
|                     | Next.Process(item);   |
|                     | }   |
|                     | }   |
|                     | }   |

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

Code segments

Answer area

ITelemetryProcessor

ITelemetry

TelemetryContext

ITelemetryChannel

RequestTelemetry

```
public class NoiseReducer : ITelemetryProcessor
{
    private readonly ITelemetryProcessor Next;
    public NoiseReducer(ITelemetryProcessor next)
    {
        Next = next;
    }
    public void Process(ITelemetry item)
    {
        var request = item as RequestTelemetry

        if (request == null || !request.Url.AbsolutePath.EndsWith("status" ))
        {
            Next.Process(item);
        }
    }
}
```

#### NEW QUESTION 187

- (Exam Topic 4)

You are designing an MVC web application.

The view must be as simple as possible for designers who do not have a technical background. You need to combine two existing models to meet the requirement. Which component of the MVC framework should you use?

- A. View
- B. View Model
- C. Controller
- D. Model

Answer: B

#### NEW QUESTION 191

- (Exam Topic 4)

DRAG DROP

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.)

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>

```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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 {
                        maskedAccountNum =
                            custEncrypt
                                .Encrypt(item.AccountNumber)
                    })
            </td>
        </tr>
    }
</table>

```

#### NEW QUESTION 196

- (Exam Topic 4)

You are developing an ASP.NET MVC application that displays stock market information. The stock market information updates frequently and must be displayed in real-time.

You need to eliminate unnecessary header data, minimize latency, and transmit data over a full-duplex connection.

What should you do?

- A. Implement long-running HTTP requests.
- B. Instantiate a MessageChannel object on the client.
- C. Implement WebSockets protocol on the client and the server.
- D. Configure polling from the browser.

**Answer: C**

#### NEW QUESTION 197

- (Exam Topic 4)

You are developing an ASP.NET MVC application.

You need to authenticate clients by using an ASP.NET membership database. Which authentication method should you implement?

- A. Kerberos
- B. Windows
- C. Forms
- D. Basic



**Answer:** C

**Explanation:**

To use authentication through a membership database, you must first configure it for your site. The following are the basic steps you follow in order to configure membership: References: <https://msdn.microsoft.com/en-us/library/yh26yfzy.aspx>

**NEW QUESTION 201**

- (Exam Topic 4)

You are designing a distributed application.

The application must store a small amount of information that is shared across all users and does not change frequently.

You need to configure the application to meet the requirements.

Which server-side state management options will achieve the goal? Each correct answer presents a complete solution. Choose all that apply.

- A. Database support
- B. Profile properties
- C. Session state
- D. Application state

**Answer:** AD

**Explanation:**

A: SQL Database provides a relational database management system for Windows Azure and is based on SQL Server technology. With a SQL Database instance, you can easily provision and deploy relational database solutions to the cloud, and take advantage of a distributed data center that provides enterprise-class availability, scalability, and security with the benefits of built-in data protection and self-healing.

D: Application state is a data repository available to all classes in an ASP.NET application. Application state is stored in memory on the server and is faster than storing and retrieving information in a database. Unlike session state, which is specific to a single user session, application state applies to all users and sessions. Therefore, application state is a useful place to store small amounts of often-used data that does not change from one user to another.

**NEW QUESTION 204**

- (Exam Topic 4)

You are designing a distributed application that runs on the Windows Azure platform.

The application must store a small amount of insecure global information that does not change frequently. You need to configure the application to meet the requirements.

Which server-side state management option should you use? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Windows Azure application state
- B. SQL Azure
- C. Profile properties of the Windows Azure application
- D. Windows Azure session state

**Answer:** B

**Explanation:**

SQL Database provides a relational database management system for Windows Azure and is based on SQL Server technology. With a SQL Database instance, you can easily provision and deploy relational database solutions to the cloud, and take advantage of a distributed data center that provides enterprise-class availability, scalability, and security with the benefits of built-in data protection and self-healing.

Incorrect:

Not A: Application State does not exist in Azure.

Not C: Profile properties stores personal, not global, information.

Not D: Session state is not global. Session states handles user information such as cookies, hidden fields, and query strings are some client-side options to tracking user state

**NEW QUESTION 205**

- (Exam Topic 4)

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 web application that is self-hosted using Open Web Interface for .NET (OWIN) in a Microsoft Azure Worker role.

The web application throws exceptions. You need to resolve the exceptions.

Solution: Change the HTTP Endpoints to use port 80. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** A

**NEW QUESTION 207**

- (Exam Topic 4)

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 question 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 are developing an ASP.NET Core MVC web application. The landing page of the application contains over 100 small JPEG images, including many images that have embedded

Mobile device users report performance issues when loading the landing page. You debug the application and determine that the number of HTTP requests is causing the issue.

You need to improve the performance of the landing page.

Solution: Convert all images to JPEG with a high compression ratio.

- A. Yes

**Answer: B**

How should you complete the markup? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

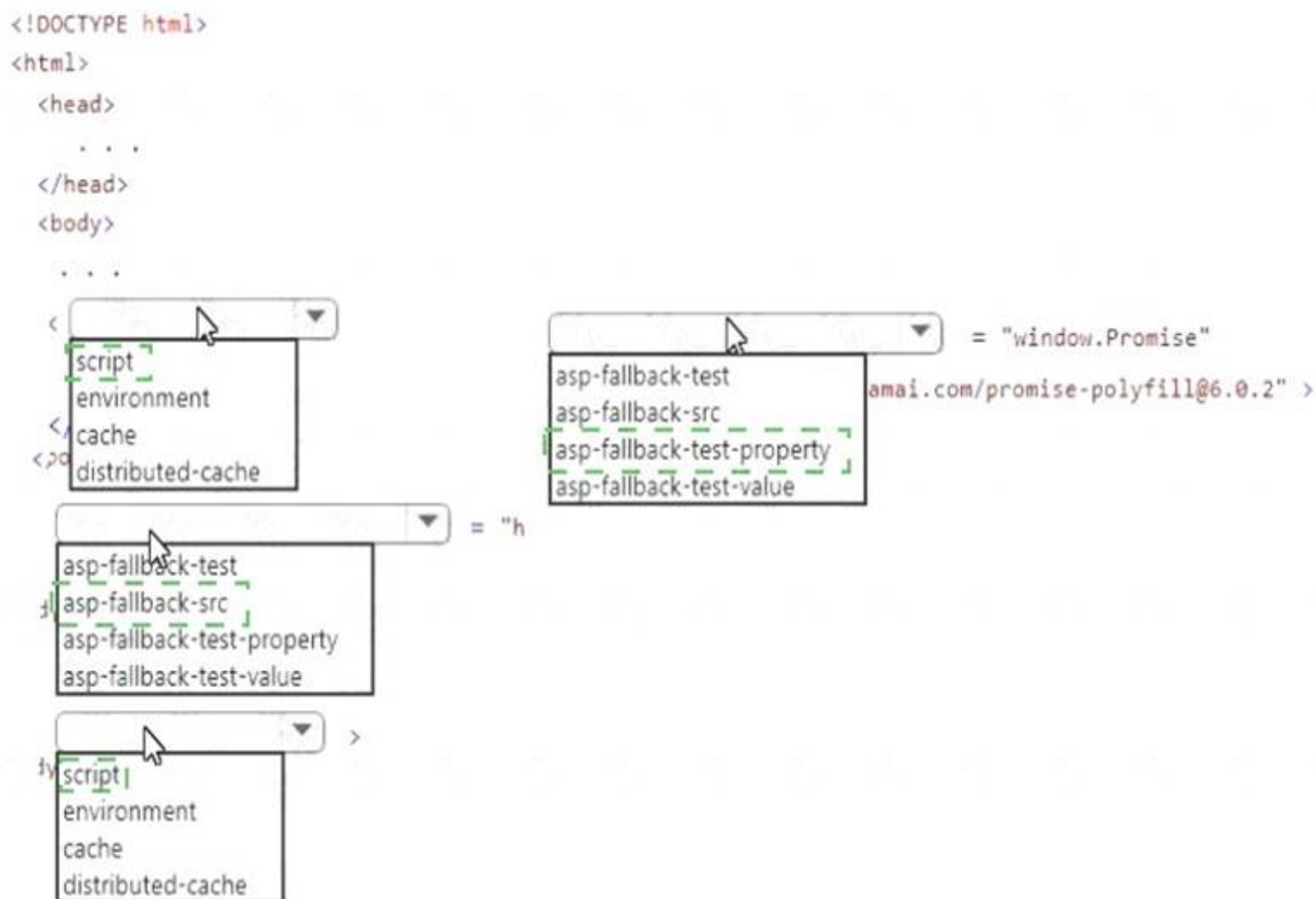
```

<!DOCTYPE html>
<html>
  <head>
    . . .
  </head>
  <body>
    . . .
    <script
      environment
      cache
      distributed-cache
    </script>
    <asp-fallback-test
      asp-fallback-src
      asp-fallback-test-property
      asp-fallback-test-value
    </asp-fallback-test>
    <script
      environment
      cache
      distributed-cache
    </script>
  </body>
</html>

```

**Explanation:**

## Answer Area



### NEW QUESTION 215

- (Exam Topic 4)

You are developing an ASP.NET MVC web application that includes the following method.

```
public double GoldMined(double currentGold, double newlyMinedGold)
{
    double totalGold = 0.00;
    totalGold = currentGold + newlyMinedGold;
    return totalGold;
}
```

You need to test the GoldMined method. Which unit test should you use?



- ☐ A. `[TestMethod()]`  
`public void GoldMinedTest()`  
{  
    double currentGold = 175.05;  
    double newlyMinedGold = 76.03;  
    double totalGold = 251.08;  
    double result = 0.00;  
  
    result = GoldMined(currentGold, newlyMinedGold);  
    Assert.IsTrue(totalGold, result);  
}
- ☐ B. `[TestMethod()]`  
`private void GoldMinedTest()`  
{  
    double currentGold = 175.05;  
    double newlyMinedGold = 76.03;  
    double totalGold = 251.08;  
    double result = 0.00;  
  
    result = GoldMined(currentGold, newlyMinedGold);  
    Assert.AreEqual(totalGold, result);  
}
- ☐ C. `[UnitTest()]`  
`public void GoldMinedTest()`  
{  
    double currentGold = 175.05;  
    double newlyMinedGold = 76.03;  
    double totalGold = 251.08;  
    double result = 0.00;  
  
    result = GoldMined(currentGold, newlyMinedGold);  
    Assert.AreEqual(totalGold, result);  
}
- ☐ D. `[TestMethod()]`  
`public void GoldMinedTest()`  
{  
    double totalGold = 175.05;  
    double newlyMinedGold = 76.03;  
    double totalGold = 251.08;  
    double result = 0.00;  
  
    result = GoldMined(currentGold, newlyMinedGold);  
    Assert.AreEqual(totalGold, result);  
}

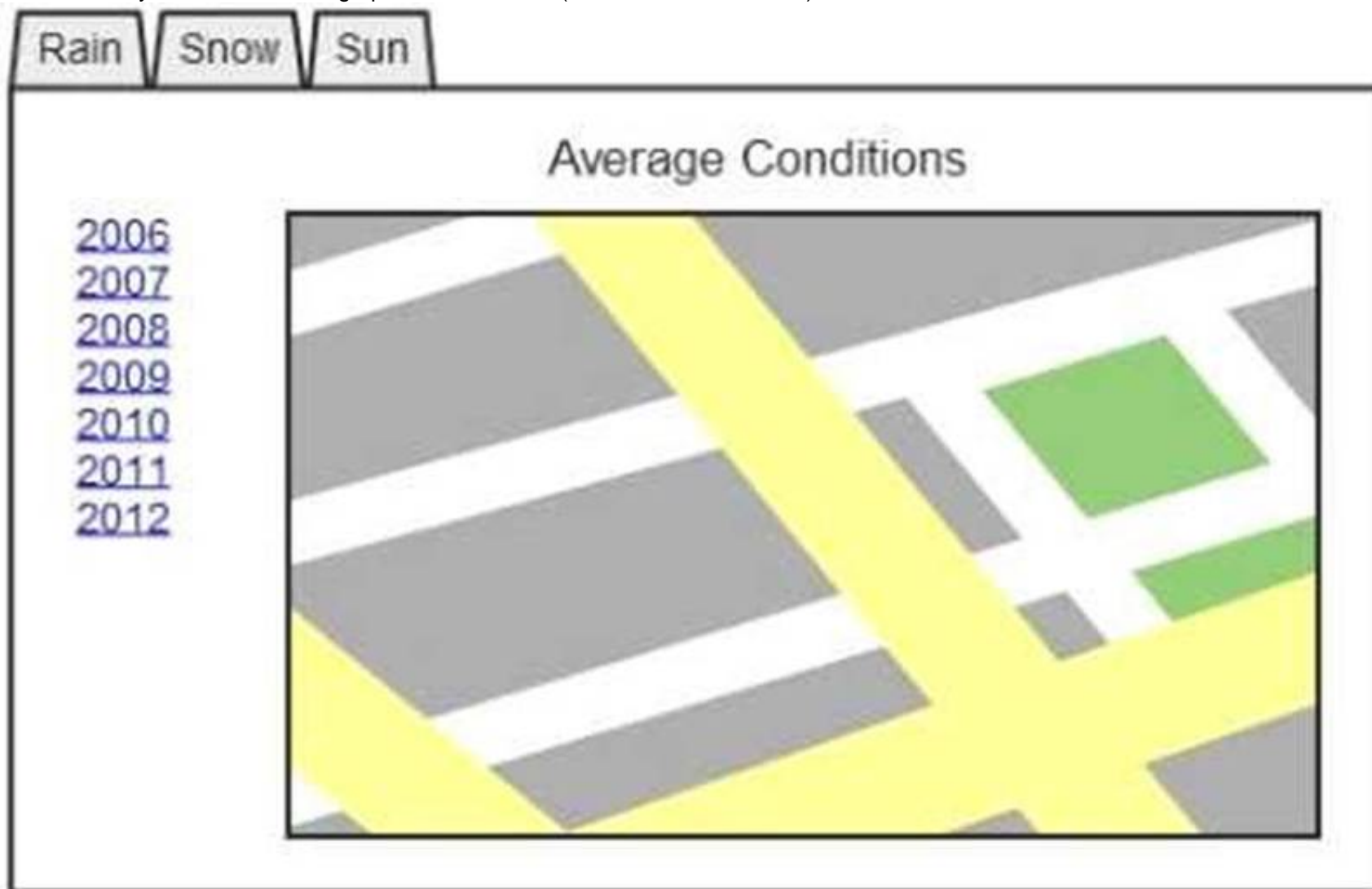
- A. Option A  
B. Option B  
C. Option C  
D. Option D

Answer: D

#### NEW QUESTION 220

- (Exam Topic 4)

You are implementing a website redesign of an existing website that provides historical weather condition maps. The current layout resembles the graphic in the exhibit. (Click the Exhibit button.)



Year selection is implemented as a set of links, which causes the page to reload when the user changes the year. The year selection HTML is contained in a div with an id of "year-selector".

You need to modify the page so that the user can change the year without the page reloading. You also need to ensure that there is minimal change to the design of the page.

Which code segment should you use?

- ☐ A. 

```
$("#year-selector").slider({
  orientation: "vertical",
  range: { 2006: 2012 },
  step: 1,

});
```
- ☐ B. 

```
$("#year-selector").datepicker({
  yearRange: { 2000:2010 },
  constrainInput: false,
  stepMonths: 12

});
```
- ☐ C. 

```
$("#year-selector").datepicker({
  numberOfMonths: 6 * 12,
  showButtonPanel: true,
  constrainInput: true,
  stepMonths: 3

});
```
- ☐ D. 

```
$("#year-selector").slider({
  orientation: "vertical",
  min: 2006,
  max: 2012,
  step: 1,

});
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: D

Explanation:

HTML5 slider contains min and max properties:

\* min Minimum value of the range. Default minimum value is 0.

\* maxMaximum value of the range. Default maximum value is 100. Incorrect:

Not A: HTML5 slider contains "range" property, but it used for enabling and configuring range selection in slider, not for setting min and max possible values.

References:

http://www.html5tutorial.info/html5-range.php

NEW QUESTION 221

- (Exam Topic 4)

DRAG DROP

You are developing an ASP.NET MVC application in Visual Studio 2012. The application will be viewed with browsers on desktop devices and mobile devices. The application uses the Razor View Engine to display data.

The application contains two layouts located in the /Views/Shared directory. These layouts are named:

- \_Layout.cshtml
- \_MobileLayout.cshtml

The application must detect if the user is browsing from a mobile device. If the user is browsing from a mobile device, the application must use the \_MobileLayout.cshtml file. If the user is browsing from a desktop device, the application must use .Layout, cs html.

You need to ensure that the application renders the layout that is appropriate for the browser. You have the following code:

```
@{
    if (Target 1)
    { Target 2;
    }
    else
    {
        Target 3;
    }
}
```

Which code segments should you include in Target 1, Target 2 and Target 3 to complete the code of the ViewStart.cshtml file? (To answer, drag the appropriate code segments 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.)

Segments

Layout = "~/Views/Shared/\_Layout.cshtml";

Layout = "~/Views/Shared/\_MobileLayout.cshtml";

Request.Browser.IsBrowser("MobileDevice")

Request.Browser.IsMobileDevice

Layout = new MasterPage("\_Layout.cshtml")

Layout = new MasterPage("\_MobileLayout.cshtml")

Answer area

Target 1:Segment

Target 2:Segment

Target 3:Segment

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Segments

Layout = "~/Views/Shared/\_Layout.cshtml";

Layout = "~/Views/Shared/\_MobileLayout.cshtml";

Request.Browser.IsBrowser("MobileDevice")

Request.Browser.IsMobileDevice

Layout = new MasterPage("\_Layout.cshtml")

Layout = new MasterPage("\_MobileLayout.cshtml")

Answer area

Target 1:Request.Browser.IsMobileDevice

Target 2:Layout = "~/Views/Shared/\_MobileLayout.cshtml";

Target 3:Layout = "~/Views/Shared/\_Layout.cshtml";



#### NEW QUESTION 226

- (Exam Topic 4)

HOTSPOT

You are developing an ASP.NET MVC web application that enables users to open Microsoft Excel files. The current implementation of the ExcelResult class is as follows.

```
public class ExcelResult : ActionResult
{
    public string Path { get; set; }

    public override void ExecuteResult(ControllerContext context)
    {
        ...
    }
}
```

You need to enable users to open Excel files. You have the following code:

```
var response = context.HttpContext.Response;
var request = context.HttpContext.Request;
Target 1
if (canProcess)
{
    response.Clear();
    Target 2
    Target 3
    response.WriteFile(context.HttpContext.Server.MapPath(Path));
}
```

Which code segments should you include in Target 1, Target 2 and Target 3 to implement the ExecuteResult method? To answer, select the appropriate option or options in the answer area.

#### Answer Area

Target 1:

var canProcess = request.AcceptTypes.Contains("application/vnd.ms-excel");  
var canProcess = request.ContentType.Contains("application/vnd.ms-excel");

Target 2:

response.AddHeader("content-disposition", "attachment; filename=dl");  
response.Output.Write("content-disposition", "application/vnd.ms-excel");

Target 3:

response.ContentType = "application/vnd.ms-excel";  
response.ContentEncoding = new UTF8Encoding

A. Mastered

B. Not Mastered

Answer: A

#### Explanation:

Target 1:

Name: AcceptTypes

Synopsis: string[] = Request.AcceptTypes

Return s a String array containing the Multipurpose Internet Mail Extension (MIME) types accepted by the client. You can use this property to determine whether a client can accept certain response types, including application types such as Word or Excel, which are supported only by Internet Explorer.

Target 2, Target 3:

Example: Response.AddHeader("content-disposition", "attachment; filename=MyExcelFile.xls"); Response.ContentType = "application/ms-excel";

#### NEW QUESTION 231

- (Exam Topic 4)

You are developing an ASP.NET MVC application. The application is deployed in a web farm and is accessed by many users.

The application must handle web server failures gracefully. The servers in the farm must share the short-term state information.

You need to persist the application state during the session. What should you implement?

- A. ASP.NET session state
- B. A local database
- C. A state server
- D. Profile properties

**Answer: C**

**Explanation:**

ASP.NET session state service provides a somewhat slower service than the in-process variant as we need to make calls to a remote server. All session data is stored in memory so shutting down the state machine will wipe out all session data as well.

References: <https://dotnetcodr.com/2013/07/01/web-farms-in-net-and-iis-part-5-session-state-management/>

**NEW QUESTION 233**

- (Exam Topic 4)

You are designing a distributed application.

The application must store secure information that is specific to an individual user. The data must be automatically purged when the user logs off.

You need to save transient information in a secure data store. Which data store should you use?

- A. Session state
- B. Database storage
- C. Profile properties
- D. Application state

**Answer: A**

**Explanation:**

ASP.NET session state enables you to store and retrieve values for a user as the user navigates ASP.NET pages in a Web application. HTTP is a stateless protocol. This means that a Web server treats each HTTP request for a page as an independent request. The server retains no knowledge of variable values that were used during previous requests. ASP.NET session state identifies requests from the same browser during a limited time window as a session, and provides a way to persist variable values for the duration of that session.

References: <https://msdn.microsoft.com/en-us/library/ms178581.aspx>

**NEW QUESTION 238**

- (Exam Topic 4)

HOTSPOT

You are developing an ASP.NET MVC application. The layout page of the application references the jQuery library. You develop a view that uses the layout page.

The view includes the following markup:

```
<div id="newBooks"></div>
<div>
  <input type="button" id="addBookButton" name="addBook" value="Add Book" />
</div>
```

The application includes the following class:

```
public class BookController : Controller
{
    public ActionResult CreateNewBook()
    {
        var bookViewModel = new BookViewModel();
        return PartialView("~/Views/Shared/EditorTemplates/BookViewModel.cshtml", bookViewModel);
    }
}
```

When a user clicks the button, an AJAX call must retrieve the partial view and append it to the newBooks div element.

You need to implement the AJAX request.

How should you complete the relevant code? To answer, select the appropriate code segment from each list in the answer area.

**Answer Area**

```
<script language="javascript" type="text/javascript">
  $("#addBookButton").on('click', function () {
    $.ajax({
      dataType: 'html'
      data: 'newBooks'
      context: document.body
      url: '/Book/CreateNewBook'
    }).success(function (partialView) {
      $('#newBooks').html(partialView);
      $('#newBooks').text(partialView);
      $('#newBooks').html = partialView;
      $('#newBooks').append(partialView);
    });
  });
</script>
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Example:  
\$.ajax({  
url: this.href, cache: false,  
success: function (html) { \$("#fixedRows").append(html); }  
});

NEW QUESTION 240

- (Exam Topic 4)

DRAG DROP

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

To set the culture, the application must use the AcceptLanguage header field value sent by the client browser. You need to ensure that the application can set the culture.

You have the following markup in the web.config file:

```
<system.web>  
  <Target 1  
    Target 2 ="true"  
    Target 3 ="auto"  
    culture ="auto"  
  />  
  ...
```

Which markup segments should you include in Target 1, Target 2 and Target 3 to complete markup? To answer, drag the appropriate markup segments to the correct targets. Each markup 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.

Markup Segments

configSource

uiCulture

enableClientBasedCulture

siteMap

globalization

Answer Area

Target 1:

Markup Segment

Target 2:

Markup Segment

Target 3:

Markup Segment

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Target1: globalization  
Target2: enableClientBasedCulture Target3: uiCulture  
When the EnableClientBasedCulture property is enabled, the Culture and UICulture properties are based on the AcceptLanguage header field value that is sent by the client browser. If the AcceptLanguage header value cannot be mapped to a specific culture, the Culture and UICulture values are used. The default value is false.  
The following combination of attributes is used in the globalization section: culture="auto", uiCulture="auto", enableClientBasedCulture="true", e.g.:  
<globalization uiCulture="auto" culture="auto" enableClientBasedCulture="true"> References:

NEW QUESTION 243

- (Exam Topic 4)

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 question 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 InputFormatters collection in MVC. Does the solution meet the goal?

- A. Yes
- B. No

Answer: A

NEW QUESTION 247



- (Exam Topic 4)  
You are developing an application. You use an instance of the ConfigurationBuilder class to retrieve user secrets, configuration strings, and other sensitive variables on your development device.  
You add new features to the application. You need to retrieve application secrets.  
What should you implement? To answer, drag the appropriate technologies to the correct configuration options. Each technology 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.

Technologies

Secret Manager tool

Microsoft Azure Key Vault

Database-level encryption

Environment variables

Answer area

Configuration option

Technology

Store secrets on a local development device.

Set staging and production runtime parameters.

Store secrets for production and staging environments.

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**  
Box 1: Secret Manager tool Box 2: Environment variables  
Box 3: Microsoft Azure Key Vault References:  
<https://docs.microsoft.com/en-us/aspnet/core/security/app-secrets?view=aspnetcore-2.1&tabs=visual-studio> <https://www.humankode.com/asp-net-core/asp-net-core-configuration-best-practices-for-keeping-secrets-out-of->

NEW QUESTION 250

- (Exam Topic 4)  
You are developing an ASP.NET MVC application that provides instant messaging capabilities to customers. You have the following requirements:

- Messages must be able to be sent and received simultaneously.
- Latency and unnecessary header data must be eliminated.
- The application must comply with HTML5 standards.

You need to design the application to meet the requirements. What should you do?

- A. Configure polling from the browser.
- B. Implement long-running HTTP requests.
- C. Implement WebSockets protocol on the client and the server.
- D. Instantiate a MessageChannel object on the client.

Answer: D

NEW QUESTION 253

- (Exam Topic 4)  
You are developing an ASP.NET Core MVC web application for AdventureWorks Cycles.  
You need to ensure that users can authenticate with Contoso Ltd., an OpenID Connect authentication provider. 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.

Code segments

Audience

Application

Authority

Challenge

AddJwtBearer

AddOAuth

AddCookie

Answer area

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddAuthentication()
        .AddOpenIdConnect(options => {
            options.Authority = "https://www.contoso.com/" ;
            options.ClientId = "https://www.adventure-works.com/" ;
        });
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

#### NEW QUESTION 257

- (Exam Topic 4)

You are developing an ASP.NET MVC application that will be deployed on a web farm.

Passwords must be stored in the web.config file and must not be readable or in a format that is easily decodable

You need to encrypt the passwords that are stored in the web.config file. Which command-line tool should you use?

- A. AspNet\_regiis.exe
- B. Ngen.exe
- C. AspNet\_merge.exe
- D. EdmGen.exe

Answer: A

Explanation:

References:

[http://msdn.microsoft.com/en-us/library/zhhddkxy\(v=vs.100\).aspx](http://msdn.microsoft.com/en-us/library/zhhddkxy(v=vs.100).aspx)

#### NEW QUESTION 261

- (Exam Topic 4)

You need to ensure that URLs for log manipulation are mapped to the controller. You have the following code:

```

Target 1
name: "GetLog",
Target 2
defaults: new
{
    controller = "RunLog",
    action = "GetLog"
}
};
    
```

Which code segments should you include in Target 1 and Target 2 to map the URLs? To answer, drag the appropriate code segments to the correct targets. Each code segment may be used once, more than once, or not at all. You need to drag the split bar between panes or scroll to view content.

| Code Segments                           | Answer Area                                  |
|---|--|
| <div>routes.MapHttpRequest{</div>       | <div>Target 1:</div> <div>Code Segment</div> |
| <div>routes.MapRoute{</div>             | <div>Target 2:</div> <div>Code Segment</div> |
| <div>url: "RunLog/{action}",</div>      |  |
| <div>url: "GetLog/{action}",</div>      |  |
| <div>url: "GetLog/{action}/{id}",</div> |  |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Target 1: routes.MapRoute(

The MapRoute method takes three parameters: routes, name, and URL. Target 2: url: "GetLog/{action}/{id}",

Examplecode: routes.MapRoute( "Default", // Route name

"{controller}/{action}/{id}", // URL with parameters

new { controller = "Home", action = "Index", id = "" } // Parameter defaults

);

Incorrect:

Not routes.MapHttpRoute(:

The MapHttpRoute method takes three parameters: routes, name, and routetemplate, but we need an URL parameter, not a routeTemplate parameter.

References:

[https://msdn.microsoft.com/en-us/library/system.web.mvc.routecollectionextensions.maproute\(v=vs.118\).aspx](https://msdn.microsoft.com/en-us/library/system.web.mvc.routecollectionextensions.maproute(v=vs.118).aspx) [https://msdn.microsoft.com/en-](https://msdn.microsoft.com/en-us/library/cc668201.aspx)

[us/library/cc668201.aspx](https://msdn.microsoft.com/en-us/library/cc668201.aspx)

## NEW QUESTION 265

- (Exam Topic 4)

You maintain an ASP.NET MVC application. Errors are logged to the Trace object. The application contains the following code. Line numbers are included for reference only.

Global.asax.cs

```
01 public class MvcApplication : System.Web.HttpApplication
02 {
03     private int exceptionCount = 0;
04     protected void Application_Start()
05     {
06         AppDomain.CurrentDomain.FirstChanceException += (sender, args) =>
07         {
08             Trace.TraceWarning("Exceptions " + ++exceptionCount);
09         };
10         ...
11     }
12 }
```

HomeController.cs

```
13 public ActionResult Contact()
14 {
15     object data = null;
16     try
17     {
18         data = Load();
19     }
20     catch (Exception ex)
21     {
22         Trace.TraceError("Exception caught " + ex.ToString());
23     }
24     finally
25     {
26         Trace.TraceInformation("View rendering");
27     }
28     return View(data);
29 }
```

The Load method throws an exception.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

|   | Yes                   | No                    |
|---|-----------------------|-----------------------|
| The number of exceptions is incremented before the view is rendered.    | <input type="radio"/> | <input type="radio"/> |
| The exception is logged before the view is rendered.                    | <input type="radio"/> | <input type="radio"/> |
| The exception is logged before the number of exceptions is incremented. | <input type="radio"/> | <input type="radio"/> |

A. Mastered

B. Not Mastered

Answer: A

Explanation:



|   | Yes                              | No                               |
|---|----------------------------------|----------------------------------|
| The number of exceptions is incremented before the view is rendered.    | <input checked="" type="radio"/> | <input type="radio"/>            |
| The exception is logged before the view is rendered.                    | <input type="radio"/>            | <input checked="" type="radio"/> |
| The exception is logged before the number of exceptions is incremented. | <input checked="" type="radio"/> | <input type="radio"/>            |

#### NEW QUESTION 270

- (Exam Topic 4)

You are developing an ASP.NET MVC web application for viewing a photo album. The application is designed for devices that support changes in orientation, such as tablets and smartphones. The application displays a grid of photos in portrait mode.

When the orientation changes to landscape, each tile in the grid expands to include a description. The HTML that creates the gallery interface resembles the following markup.

```
<ul class="gallery">
  <li>
    
    <div>Description</div>
  </li>
</ul>
```

The CSS used to style the tiles in portrait mode is as follows.

```
ul.gallery > li {
  width: 100px;
}

ul.gallery > li > div {
  display: none;
}
```

If this CSS is omitted, the existing CSS displays the tiles in landscape mode.

You need to update the portrait mode CSS to apply only to screens with a width less than 500 pixels. Which code segment should you use?

- A. @media resolution(max-width: 500px) { . . }
- B. @media screen(min-width: 0px, max-width: 500px) { . . }
- C. @media screen and (width <= 500px) { . . }
- D. @media screen and (max-width: 500px) { . . }

**Answer: D**

#### Explanation:

Screen is used for computer screens, tablets, smart-phones etc.

max-width is the maximum width of the display area, such as a browser window.

References:

[http://www.w3schools.com/cssref/css3\\_pr\\_mediaquery.asp](http://www.w3schools.com/cssref/css3_pr_mediaquery.asp)

#### NEW QUESTION 274

- (Exam Topic 4)

You are maintaining an ASP.NET MVC application that runs on Azure. Remote debugging is enabled for this role, but the input endpoints for remote debugging have been removed for security reasons. You do not have permission to view the Azure Portal for this deployment. You can log on by using Remote Desktop Protocol (RDP).

You must attach the input endpoints to enable remote debugging. You need to add the input endpoints to enable remote debugging. Which file should you modify?

- A. C:\Config\<GUID>.ccf
- B. E:\entrypoint.txt
- C. E:\<GUID>.csman
- D. C:\Config\<DeploymentD>.WebRole.1.xml

**Answer: C**

#### NEW QUESTION 279

- (Exam Topic 4)

You are testing an ASP.NET application.

The test plan requires that tests run against the application's business layer. You need to use the test project template that meets this requirement. Which template should you use?

- A. Web Test Project
- B. Load Test Project
- C. Unit Test Project
- D. Coded Test Project

Answer: C

#### NEW QUESTION 282

- (Exam Topic 4)

You are developing a Microsoft Azure ASP.NET Core web application named onlinestore.

Users report bugs with the web application that only occur on development deployments. The bugs are in a third-party component.

You need to gather a memory dump of the running application to provide to the component vendor.

How should you construct the URI to gather the memory dump? To answer, drag the appropriate URI segments to the correct locations. Each URI 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.

| URI segments |      | Answer area  |
|--------------|------|--|
| onlinestore  | scm  | https://URI segment . URI segment .azurwebsites.net/ |
| debug        | diag |  |
|              |      |  |
|              |      |  |
|              |      |  |

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

| URI segments |      | Answer area                                  |
|--------------|------|--|
| onlinestore  | scm  | https://onlinestore . scm .azurwebsites.net/ |
| debug        | diag |  |
|              |      |  |
|              |      |  |
|              |      |  |

#### NEW QUESTION 286

- (Exam Topic 4)

HOTSPOT

You are preparing to test an ASP.NET application. The application includes the following class. Line numbers are included for reference only.

```

01 public class HomeController : Controller
02 {
03     public ActionResult Index()
04     {
05         return View();
06     }
07     public ActionResult GetResults(int index)
08     {
09         return View();
10     }
11     public ActionResult GetUserInfo(string email)
12     {
13         return View();
14     }
15 }

```

Data will be imported from another system into the current application. Before importing data, you must run

unit tests to validate the data. To be considered valid, the data must meet the following requirements: You need to create unit tests that fail if the requirements are not met.

- The value passed into the GetResults method must be greater than or equal to zero.
- The value passed into the GetUserInfo method must not be null.

How should you complete the relevant code? To answer, select the appropriate code segment from each list in the answer area.

## Answer Area

▼

[TestClass]  
[TestMethod]  
[HandleError]  
[HandleException]

```
public class UnitTest1
{
    protected int? index;
    protected string email;
    public void Index()
    {
        index = null;
        email = null;
        GetResults();
        GetUserInfo();
    }
}
```

▼

[TestClass]  
[TestMethod]  
[HandleError]  
[HandleException]

```
public void GetResults()
{
```

▼

Assert.IsTrue  
Assert.IsFalse  
Assert.AreEqual  
Assert.IsNotNull

```
(index >=0, "Test failed");
```

```
}
```

▼

[TestClass]  
[TestMethod]  
[HandleError]  
[HandleException]

```
public void GetUserInfo()
{
```

▼

Assert.IsTrue  
Assert.IsFalse  
Assert.AreEqual  
Assert.IsNotNull

```
(email, "Test failed" );
```

```
}
```

```
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: TestClass



Box 2: TestMethod

Box 3: Assert.IsTrue

Box 4: TestMethod

Box 5: Assert.IsNotNull

Box 1: TestClass

The [TestClass] attribute is required in the Microsoft unit testing framework for managed code for any class that contains unit test methods that you want to run in Test Explorer.

Box 2: TestMethod

Set the following attributes for the unit test: [TestMethod]

All unit tests require the [TestMethod] attribute. Box 3: Assert.IsTrue

The value passed into the GetResults method must be greater than or equal to zero. Box 4: TestMethod

Box 5: Assert.IsNotNull

The value passed into the GetUserInfo method must not be null. References: <https://msdn.microsoft.com/en-us/library/ms182532.aspx>

#### NEW QUESTION 287

- (Exam Topic 4)

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:

- ProductDictionary.resx
- ProductDictionary.es.resx
- ProductDictionary.fr.resx

Each file contains a public resource named Currency with the localized currency symbol. 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.LocalizedCurrency to the localized currency contained in the resource files. Which code segment should you add to the action at line 03?

- A. ViewBag.LocalizedCurrency = Resources.ProductDictionary.Currency;
- B. ViewBag.LocalizedCurrency = HttpContext.GetGlobalResourceObject("ProductDictionary", "Currency", new System.Globalization.CultureInfo(Men));
- C. ViewBag.LocalizedCurrency = HttpContext.GetLocalResourceObject("ProductDictionary", "Currency");
- D. ViewBag.LocalizedCurrency = HttpContext.GetGlobalResourceObject("ProductDictionary", "Currency");

**Answer:** A

#### Explanation:

Only the Resources class is used.

#### NEW QUESTION 289

- (Exam Topic 4)

HOTSPOT

You develop an ASP.NET MVC application. The application includes a feature that allows users to reset their passwords. The feature is enabled by a ForgotPassword controller method and a corresponding Razor view.

You need to prevent Cross-Site Request Forgery (CSRF) attacks.

How should you complete the relevant code? To answer, select the appropriate code segment from each list in the answer area.

## Answer Area

## AccountController.cs

```
[HttpPost]
[AllowAnonymous]
```

```
[Authorize]
[ValidateInput(true)]
[ValidateAntiForgeryToken]
[Authorize(Users="ValidOnly")]
```

```
public async Task<ActionResult> ForgotPassword(ForgotPasswordViewModel model)
{
    if (!ModelState.IsValid) return View(model);
    var user = await UserManager.FindByNameAsync(model.Email);
    if (user == null || !(await UserManager.IsEmailConfirmedAsync(user.Id)))
    {
        return View("ForgotPasswordConfirmation");
    }
    return View(model);
}
```

## ForgotPassword.cshtml

```
@model AntiforgeryToken.Models.ForgotPasswordViewModel
@using (Html.BeginForm("ForgotPassword", "Account", FormMethod.Post, new { role = "form" }))
{
```

```
@Html.Encode(this)
@Html.AntiForgeryToken()
@Html.AttributeEncode(this)
@Html.Hidden("AntiforgeryToken")
```

```
@Html.ValidationSummary()
<div>
    @Html.LabelFor(m => m.Email)
    <div>@Html.TextBoxFor(m => m.Email)</div>
</div>
<div><input type="submit" value="Email Link" /></div>
}
@section Scripts {
    @Scripts.Render("~/bundles/jqueryval")
}
```

- A. Mastered  
B. Not Mastered

Answer: A

## Explanation:

Target1: [ValidateAntiForgeryToken] Target2: @Html.AntoforgeryToken() Example:

\* At the top of the action that we created to handle the posted form, the one with the [HttpPost] attribute added, we'll add another attribute named [ValidateAntiForgeryToken]. This makes the start of our action now look like the following:

```
[HttpPost] [ValidateAntiForgeryToken]
public ActionResult ChangeEmail(ChangeEmailModel model)
{
```

string username = WebSecurity.CurrentUserName;

\*rest of function omitted\*

\* we must add the unique token to the form to change the user's email when we display it. Update the form in the ChangeEmail.aspx view under /Account/ChangeForm:

```
<% using(Html.BeginForm()) { %>
<%: Html.AntiForgeryToken() %>
<%: Html.TextBoxFor(t=>t.NewEmail) %>
<input type="submit" value="Change Email" />
<% } %>
```

## NEW QUESTION 291

- (Exam Topic 4)

You are developing an ASP.NET MVC web application.

You need to create a form that can be used to add new products to the web application. You have the following markup:

```
<h2>Add Product</h2>
Target 1
<table>
  <tr>
    <td>Product Name:</td>
    Target 2
  </tr>
  <tr>
    <td>Price:</td>
    Target 3
  </tr>
  <tr>
    <td></td>
    <td>
      Target 4
    </td>
  </tr>
</table>
</form>
```

Which markup segments should you include in Target 1, Target 2, Target 3 and Target 4 to complete the markup? To answer, drag the appropriate markup segments to the correct targets. Each markup 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.

Markup Segments

<form action="/Products/Create" method="post">

<form action="/Products/Create" method="submit">

<td>@Html.TextBox(@Model.ProductName)</td>

<td>@new TextBox(@Model.ProductName)</td>

<td>@Html.TextBox(@Model.UnitPrice)</td>

<td>@new TextBox(@Model.UnitPrice)</td>

<input type="submit" value="Save"/>

<input type="post" value="Save"/>

Answer area

Target 1

Markup segment

Target 2

Markup segment

Target 3

Markup segment

Target 4

Markup segment

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Target 1: <form action="/Products/Create" method="post"> The form methods are post and get (not submit).  
Target 2: <td>@Html.Textbox(@Model.ProductName)</td>  
The InputExtensions.TextBox method returns a text input element. The TextBox method is designed to make it easy to bind to view data or model data.  
Target3: <td>@Html.Textbox(@Model.UnitPrice)</td>  
The InputExtensions.TextBox method returns a text input element. The TextBox method is designed to make it easy to bind to view data or model data.  
Target 4: <input type="submit" value="Save"/>  
The submitattribute, of input type, declares a submit button. The input type attribute does not have a post attribute. References:  
<https://weblogs.asp.net/scottgu/asp-net-mvc-preview-5-and-form-posting-scenarios> [https://msdn.microsoft.com/en-us/library/system.web.mvc.html.inputextensions.textbox\(v=vs.118\).aspx](https://msdn.microsoft.com/en-us/library/system.web.mvc.html.inputextensions.textbox(v=vs.118).aspx)

NEW QUESTION 295

- (Exam Topic 4)  
You are developing an ASP.NET MVC application by using Visual Studio 2012. The application throws and handles exceptions when it runs. You need to examine the state of the application when exceptions are thrown. What should you do?

- A. From the Debug menu in Visual Studio 2012, select Exception
- B. Enable the Thrown check box for Common Language Runtime Exceptions.
- C. From the Debug menu in Visual Studio 2012, select Exception
- D. Disable the User-unhandled check box for Common Language Runtime Exceptions.



E. Add the following code to the web.config file of the application.<customErrors mode="On" ><error statusCode="500" redirect="CustomErrors.html" /></customErrors>

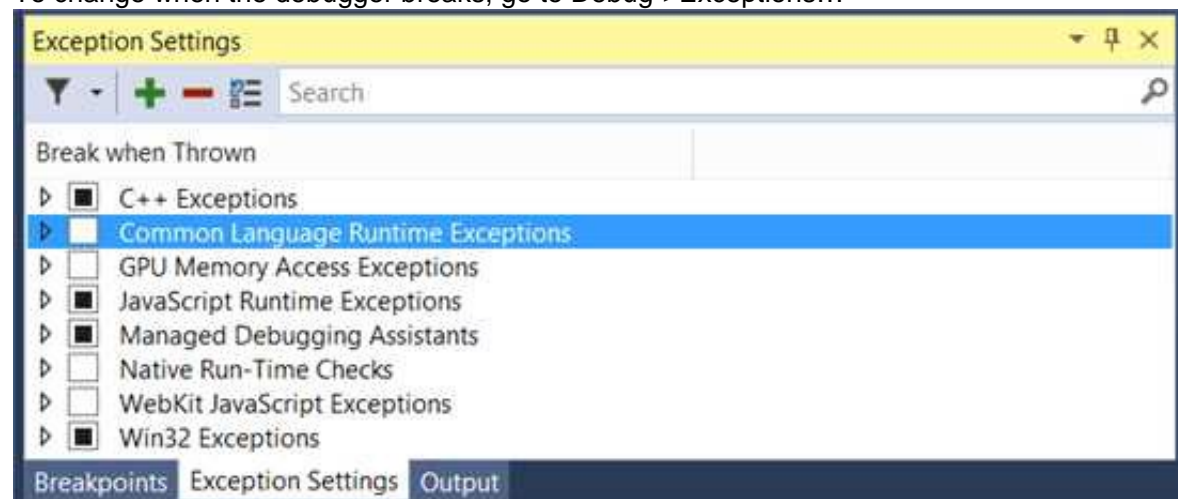
F. Add the following code to the web.config file of the application.<customErrors mode="On" ><error statusCode="404" redirect="CustomErrors.html" /></customErrors>

**Answer:** A

#### Explanation:

Configuring the debugger to break for first chance exceptions

To change when the debugger breaks, go to Debug->Exceptions...



When you first open this window you will see that there is a tree grid with one column and checkboxes.

\* Break when Thrown. This includes a default list of exceptions known by the debugger, grouped by category. Note: The possible exceptions that could break from this list is determined by the runtime you are debugging.

For example, if you are using managed-only debugging then the debugger will never break for C++, Win32 Exceptions, etc. even if they are configured to break when thrown.

\* Checkboxes. If you check the box for a category, then the debugger will break for all First Chance Exceptions while debugging. If you don't want to enable all First Chance Exceptions, you can find the specific exception types that you wish to configure by using the search box.

#### NEW QUESTION 300

- (Exam Topic 4)

You are developing an ASP.NET MVC application. The application uses a SQL Server database and a SQL Server login and password. You need to ensure that the password for the SQL Server login is not stored in plain text. Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Encrypt the connection string by using aspnet\_regiis.exe.
- B. Ensure that there is a valid machineKey element in the web.config file.
- C. Ensure that there is a valid encryptionKey element in the web.config file.
- D. Encrypt the connection string by using aspnet\_wp.exe.

**Answer:** AB

#### NEW QUESTION 303

- (Exam Topic 4)

#### HOTSPOT

You are developing an ASP.NET MVC application. The application includes the following code. Line numbers are included for reference only.

```
01 [HandleError]
02 public class HomeController : Controller
03 {
04     public ActionResult Index()
05     {
06         return View();
07     }
08     public ActionResult About()
09     {
10         return View();
11     }
12     public ActionResult Contact()
13     {
14         return View();
15     }
16 }
```

You add the following markup to the system.web section of the web.config file:

```
<customErrors mode="On" defaultRedirect="Error.htm">
  <error statusCode="500" redirect="/CustomError.htm" />
</customErrors>
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

## Answer Area

|  | Yes                   | No                    |
|--|-----------------------|-----------------------|
| When a 400-level error occurs, the ASP.NET default error page displays.  | <input type="radio"/> | <input type="radio"/> |
| When a 500-level error occurs in an <b>ActionResult</b> method, the Error view in the ~/Views/Shared folder handles the error. | <input type="radio"/> | <input type="radio"/> |
| When an exception occurs while displaying the Error view, AppErrors.htm handles the error.                                     | <input type="radio"/> | <input type="radio"/> |

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

## Answer Area

|  | Yes                              | No                               |
|--|----------------------------------|----------------------------------|
| When a 400-level error occurs, the ASP.NET default error page displays.  | <input checked="" type="radio"/> | <input type="radio"/>            |
| When a 500-level error occurs in an <b>ActionResult</b> method, the Error view in the ~/Views/Shared folder handles the error. | <input checked="" type="radio"/> | <input type="radio"/>            |
| When an exception occurs while displaying the Error view, AppErrors.htm handles the error.                                     | <input type="radio"/>            | <input checked="" type="radio"/> |

## NEW QUESTION 304

- (Exam Topic 4)

You are developing an ASP.NET MVC application to be used on the Internet. The environment does not use Active Directory.

Users must be able to log on to the application to maintain their personal preferences. You need to use the least amount of development effort to enable users to log on. What should you do?

- A. Enable Digest authentication.  
 B. Enable Windows authentication.  
 C. Enable Forms authentication.  
 D. Generate server SSL certificates and install them in IIS.

**Answer:** C

**Explanation:**

Many Web applications require a way to restrict access to some resources (such as specific pages) so that those resources are accessible only to authenticated users. The default Web application project template for ASP.NET MVC provides a controller, data models, and views that you can use to add ASP.NET forms authentication to your application. The built-in functionality lets users register, log on and off, and change their password. For many applications, this functionality provides a sufficient level of user authentication.

Incorrect:

Not B: Windows authentication would require an Active Directory.

Windows authentication method works only if the following two conditions exist:

/ You set up your network to use the Kerberos authentication protocol that requires Active Directory.

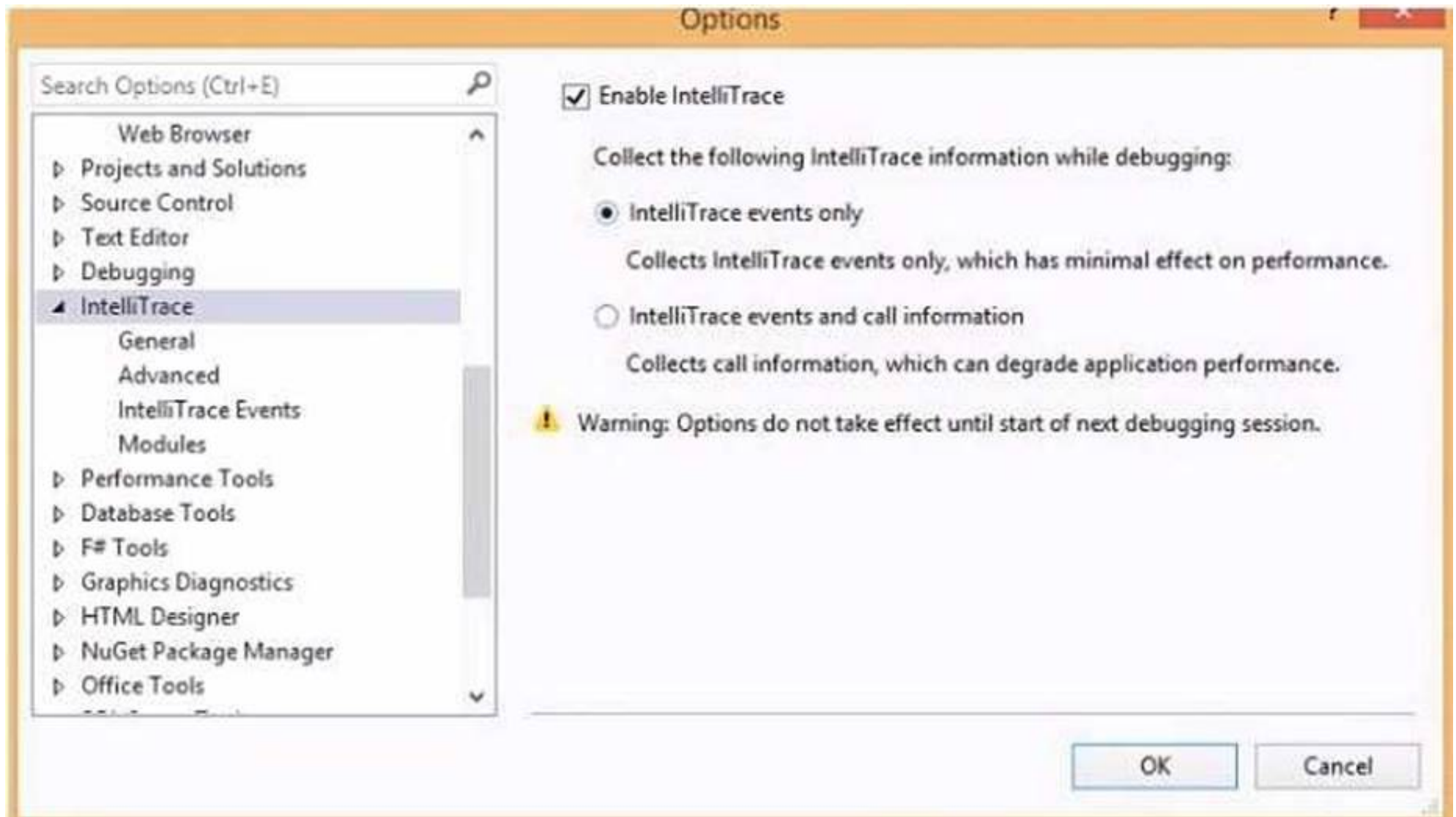
/ You set up the computers and accounts on your network as trusted for delegation. References: [https://msdn.microsoft.com/en-us/library/ff398049\(VS.98\).aspx](https://msdn.microsoft.com/en-us/library/ff398049(VS.98).aspx)

## NEW QUESTION 309

- (Exam Topic 4)

HOTSPOT

You are developing an ASP.NET MVC 4 application. You are using IntelliTrace to debug the application. You configure IntelliTrace as shown in the screenshot below.



To answer, make the appropriate selections in the answer area.

### Answer Area

Which data will be available during debugging?

state for application variables only  
state for application variables and ADO.NET and ASP.NET events  
state for application variables and every method entry and exit

Which debugging features will be disabled?

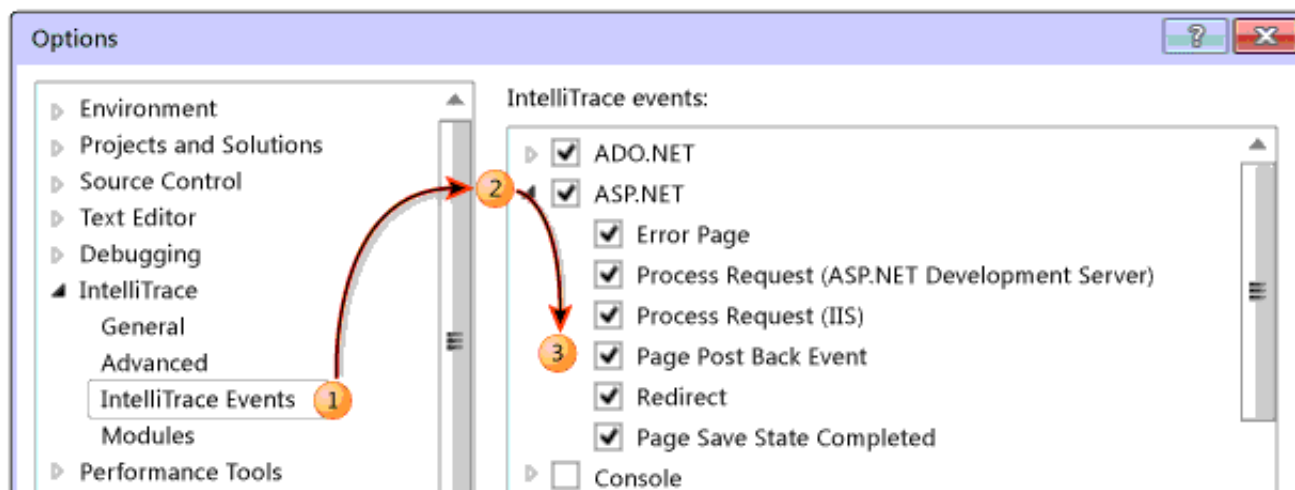
Edit and Continue  
Tracepoints and breakpoints  
Tracing for every method entry and exit

- A. Mastered
- B. Not Mastered

Answer: A

### Explanation:

Box 1:



Box 2:



Which data will be available during debugging?

state for application variables only  
 state for application variables and ADO.NET and ASP.NET events  
 state for application variables and every method entry and exit

Which debugging features will be disabled?

Edit and Continue  
 Tracepoints and breakpoints  
 Tracing for every method entry and exit

#### NEW QUESTION 314

- (Exam Topic 4)

You are designing a distributed application.

The application must store a small amount of information that is shared across all users and does not change frequently.

You need to configure the application to meet the requirements.

Which two server-side state management options will achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. session state
- B. database storage
- C. application state
- D. profile properties

**Answer:** BC

#### NEW QUESTION 315

- (Exam Topic 4)

You are designing an enterprise-level Windows Communication Foundation (WCF) application. User accounts will migrate from the existing system. The new system must be able to scale to accommodate the increasing load.

The new servers are experiencing significant stress under load of large-scale role changes. You need to ensure that the application can handle the stress.

Which authorizations should you redesign? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Role-based approach
- B. Identity-based approach
- C. Resource-based trusted subsystem model
- D. Resource-based impersonation/delegation model

**Answer:** AC

#### NEW QUESTION 318

- (Exam Topic 4)

You are developing an application that uses many small images for various aspects of the interface. The application responds slowly when additional resources are being accessed.

You need to improve the performance of the application. What should you do?

- A. Preload all the images when the client connects to ensure that the images are cached.
- B. Combine all the images into a single image and use CSS to create sprites.
- C. Host all images on an alternate server and provide a CDN.
- D. Convert the images to .png file format and stream all images on a single connection.

**Answer:** C

#### NEW QUESTION 321

- (Exam Topic 4)

You are developing an ASP.NET MVC application by using Microsoft Visual Studio Professional. You plan to deploy the app to a Microsoft Azure App Services Web App.

You must be able to edit files in the webapplication directly without having to redeploy or use other means of connecting to the web application.

You need to update the Web.config file to enable remote error messages. What should you do?

- A. Download the publishsettings file from Azure porta
- B. Create an FTP connection to the Azure Web App and update the file.
- C. Use the Visual Studio Server Explorer remote view feature to update the file.
- D. Create a Web.config transform and deploy a debug build.
- E. Use Visual Studio to remotely debug and update the file.

**Answer:** D

#### NEW QUESTION 322

- (Exam Topic 4)

You plan to deploy an ASP.NET Core MVC web application to an internal server cluster that runs Kestrel on Linux. The server cluster hosts many other web applications. All applications are behind an Nginx load balancer.

You need to ensure that the application meets the following requirements:

- Secure against man-in-the-middle attacks.
- Allow Open ID Connect authentication.

- Cache responses using HTTP caching.
- Which two actions should you perform? Each correct answer presents part of the solution.  
NOTE: Each correct selection is worth one point.

- A. Enable the proxy\_cache\_bypass module.
- B. Configure ASP.NET Core to use forwarded headers.
- C. Bind Kestrel to port 0.
- D. Terminate Secure Sockets Layer (SSL) in Kestrel.

Answer: D

#### NEW QUESTION 323

- (Exam Topic 4)

You are developing a .NET Core library that will be used by multiple applications. The library contains ASP.NET Core middleware named EnsureSecurityMiddleware.

EnsureSecurityMiddleware must always run prior to other middleware. You need to configure the middleware.

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 pint.

**Code segments**

- IStartupFilter
- IMiddlewareFacto
- IMiddleware
- IApplicationBuilder
- IApplicationLife
- IHostingStartup

**Answer area**

```

{
    b.UseMiddleware<EnsureSecurityMiddleware>();
};
}
}

public class EnsureSecurity : code segment
{
    public Action< code segment > Configure(Action< code segment > next)
    {
        return b =>
        {
            
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

**Code segments**

- IStartupFilter
- IMiddlewareFacto
- IMiddleware
- IApplicationBuilder
- IApplicationLife
- IHostingStartup

**Answer area**

```

{
    b.UseMiddleware<EnsureSecurityMiddleware>();
};
}
}

public class EnsureSecurity : IMiddleware
{
    public Action< IMiddlewareFacto > Configure(Action< IStartupFilter > next)
    {
        return b =>
        {
            
```

#### NEW QUESTION 328

- (Exam Topic 4)

You are developing an ASP.NET MVC application that uses forms authentication against an Oracle database. You need to authenticate the users.

Which code segment should you use?

- ☐ A. `public class OracleMembershipProvider : ProviderBase`  
`{`  
`...`  
`}`
- ☐ B. `public class OracleMembershipProvider : ClientFormsMembershipProvider`  
`{`  
`...`  
`}`
- ☐ C. `public class OracleMembershipProvider : SqlMembershipProvider`  
`{`  
`...`  
`}`
- ☐ D. `public class OracleMembershipProvider : MembershipProvider`  
`{`  
`...`  
`}`

- A. Option A  
 B. Option B  
 C. Option C  
 D. Option D

**Answer:** D

**Explanation:**

When implementing a custom membership provider, you are required to inherit the MembershipProvider abstract class.

There are two primary reasons for creating a custom membership provider.

You need to store membership information in a data source that is not supported by the membership providers included with the .NET Framework, such as a FoxPro database, an Oracle database, or other data source.

You need to manage membership information using a database schema that is different from the database schema used by the providers that ship with the .NET Framework. A common example of this would be membership data that already exists in a SQL Server database for a company or Web site.

**NEW QUESTION 331**

- (Exam Topic 4)

You are developing an ASP.NET MVC web application that includes the following method.

```
public double AccountBalance(double currentBalance, double transactionAmount)
{
    double finalBalance = 0.00;
    finalBalance = currentBalance + transactionAmount;
    return finalBalance;
}
```

You need to test the AccountBalance method. Which unit test should you use?



- ☐ A. `[TestMethod()]`  
`private void AccountBalanceTest()`  
{  
    double currentBalance = 175.05;  
    double transactionAmount = 76.03;  
    double finalBalance = 251.08;  
    double result = 0.00;  
  
    result = AccountBalance(currentBalance, transactionAmount);  
    Assert.AreEqual(finalBalance, result);  
}
- ☐ B. `[TestMethod()]`  
`public void AccountBalanceTest()`  
{  
    double currentBalance = 175.05;  
    double transactionAmount = 76.03;  
    double finalBalance = 251.08;  
    double result = 0.00;  
  
    result = AccountBalance(currentBalance, transactionAmount);  
    Assert.IsTrue(finalBalance, result);  
}
- ☐ C. `[TestMethod()]`  
`public void AccountBalanceTest()`  
{  
    double currentBalance = 175.05;  
    double transactionAmount = 76.03;  
    double finalBalance = 251.08;  
    double result = 0.00;  
  
    result = AccountBalance(currentBalance, transactionAmount);  
    Assert.AreEqual(finalBalance, result);  
}
- ☐ D. `[UnitTest()]`  
`public void AccountBalanceTest()`  
{  
    double currentBalance = 175.05;  
    double transactionAmount = 76.03;  
    double finalBalance = 251.08;  
    double result = 0.00;  
  
    result = AccountBalance(currentBalance, transactionAmount);  
    Assert.AreEqual(finalBalance, result);  
}

- A. Option A  
B. Option B  
C. Option C  
D. Option D

Answer: C

#### Explanation:

All unit tests require the [TestMethod] attribute.

The Assert.AreEqual method verifies that specified values are equal. Incorrect:

Not D: All unit tests require the [TestMethod] attribute. References:

[http://msdn.microsoft.com/en-us/library/microsoft.visualstudio.testtools.unittesting.assert.areequal\(v=vs.110\).as](http://msdn.microsoft.com/en-us/library/microsoft.visualstudio.testtools.unittesting.assert.areequal(v=vs.110).as)

#### NEW QUESTION 336

- (Exam Topic 4)

You are developing an ASP.NET MVC application that will run on Azure.

The application uses Event Tracing for Windows (ETW) for logging operations.

You need to retrieve the ETW data for the application from a deployed Azure instance by using the Azure Diagnostics API.

Which data source should you use?

- A. Azure Diagnostic infrastructure logs
- B. Windows event logs
- C. performance counters
- D. .NET EventSource

**Answer: D**

#### Explanation:

Azure Diagnostics 1.2 and 1.3 are Azure extensions that enable you to collect diagnostic telemetry data from a worker role, web role, or virtual machine running in Azure.

Diagnostics 1.2 and 1.3 enable the collection of ETW and .NET EventSource events. Example:

EtwProviders>

```
<EtwEventSourceProviderConfiguration provider="SampleEventSourceWriter" scheduledTransferPeriod="PT5M">
```

```
<Event id="1" eventDestination="EnumsTable"/>
```

```
<Event id="2" eventDestination="MessageTable"/>
```

```
<Event id="3" eventDestination="SetOtherTable"/>
```

```
<Event id="4" eventDestination="HighFreqTable"/>
```

```
<DefaultEvents eventDestination="DefaultTable" />
```

```
</EtwEventSourceProviderConfiguration>
```

```
</EtwProviders>
```

References:

#### NEW QUESTION 341

- (Exam Topic 4)

HOTSPOT

You are developing an ASP.NET MVC application.

Before an action is executed, information about the action must be written to a log. After results are returned, information about the results also must be written to the log.

You need to log the actions and results. You have the following code:

Target 1

```
{
    public override void
    Target 2
    {
        Logger.Log("ActionLog", filterContext.RouteData);
    }
    public override void
    Target 3
    {
        Logger.Log("ResultLog", filterContext.RouteData);
    }
}
```

Which code segments should you include in Target 1, Target 2 and Target 3 to implement the LogActionFilter class? (To answer, select the appropriate option from the drop-down list in the answer area.)

**Answer Area**

Target 1:

OnActionExecuting(ActionExecutingContext filterContext)  
 OnActionExecuted(ActionExecutedContext filterContext)  
 OnResultExecuting(ResultExecutingContext filterContext)  
 OnResultExecuted(ResultExecutedContext filterContext)  
 public class LogActionFilter : ActionFilterAttribute  
 public class LogActionFilter : IActionFilter

Target 2:

OnActionExecuting(ActionExecutingContext filterContext)  
 OnActionExecuted(ActionExecutedContext filterContext)  
 OnResultExecuting(ResultExecutingContext filterContext)  
 OnResultExecuted(ResultExecutedContext filterContext)  
 public class LogActionFilter : ActionFilterAttribute  
 public class LogActionFilter : IActionFilter

Target 3:

OnActionExecuting(ActionExecutingContext filterContext)  
 OnActionExecuted(ActionExecutedContext filterContext)  
 OnResultExecuting(ResultExecutingContext filterContext)  
 OnResultExecuted(ResultExecutedContext filterContext)  
 public class LogActionFilter : ActionFilterAttribute  
 public class LogActionFilter : IActionFilter

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Target 1: IActionFilter

MVC3 introduced a completely new pattern to configure filters for controllers and its actions. While injection of filter attributes is still supported it is recommended using this new pattern for filter configuration because it has the advantage to support constructor injection and does not require the InjectAttribute anymore.

First of all you have to create your filter class by implementing one of the filter interfaces e.g. IActionFilter. Target 2: public void

OnActionExecuting(ActionExecutingContext filterContext)

Target 3: public void OnActionExecuted(ActionExecutedContext filterContext) References:

**NEW QUESTION 342**

- (Exam Topic 4)

You are designing a data-oriented application that features a variety of storage schemas. The application object model must be mapped to the various storage schemas.

You need to enable developers to manipulate the data.

Which ADO.NET data access strategy should you use? (Each correct answer presents a complete solution.

Choose all that apply.)

- A. LINQ to SQL
- B. Entity Framework
- C. DataAdapter
- D. DataReader

**Answer:** ABC

**NEW QUESTION 344**

- (Exam Topic 4)

You are developing an ASP.NET MVC application that uses forms authentication against a third-party database.

You need to authenticate the users. Which code segment should you use?

- ☐ A. 

```
public class SAMembershipProvider : SqlMembershipProvider
{
    ...
}
```
- ☐ B. 

```
public class SAMembershipProvider : ClientFormsMembershipProvider
{
    ...
}
```
- ☐ C. 

```
public class SAMembershipProvider : ProviderBase
{
    ...
}
```
- ☐ D. 

```
public class SAMembershipProvider : MembershipProvider
{
    ...
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

**Explanation:**

ASP.NET membership is designed to enable you to easily use a number of different membership providers for your ASP.NET applications.

There are two primary reasons for creating a custom membership provider.

\* You need to store membership information in a data source that is not supported by the membership providers included with the .NET Framework, such as a FoxPro database, an Oracle database, or other data sources.

\* You need to manage membership information using a database schema that is different from the database schema used by the providers that ship with the .NET Framework.

To implement a membership provider, you create a class that inherits the MembershipProvider abstract class from the System.Web.Security namespace.

Incorrect:

Not C: Class ProviderBase

The provider model is intended to encapsulate all or part of the functionality of multiple ASP.NET features, such as membership, profiles, and protected configuration.

References: <https://msdn.microsoft.com/en-us/library/f1kyba5e.aspx>

**NEW QUESTION 347**

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