

## 70-486 Dumps

### Developing ASP.NET MVC 4 Web Applications

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**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.)

<p>@Html.Partial(</p> <p>@Html.Action(</p> <p>"_CalculatePace.cshtml", log)</p> <p>"_CalculatePace", log)</p> <p>"_CalculatePace")</p>	<pre> &lt;td&gt;     @Html.DisplayFor(model =&gt; log.Time) &lt;/td&gt; &lt;td&gt; &lt;/td&gt; &lt;/td&gt; &lt;td&gt;     @Html.ActionLink(         "Delete", "Deletelog",         new { id = log.Id }) &lt;/td&gt;                 </pre>
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- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

<p>@Html.Action(</p> <p>"_CalculatePace.cshtml", log)</p> <p>"_CalculatePace")</p>	<pre> &lt;td&gt;     @Html.DisplayFor(model =&gt; log.Time) &lt;/td&gt; &lt;td&gt;     @Html.Partial(         "_CalculatePace", log) &lt;/td&gt; &lt;td&gt;     @Html.ActionLink(         "Delete", "Deletelog",         new { id = log.Id }) &lt;/td&gt;                 </pre>
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**NEW QUESTION 2**

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.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**NEW QUESTION 3**

If the canvas element is supported by the client browser, the application must display "London 2012" in the footer as text formatted by JavaScript at the end of the \_Layout.cshtml file.

You need to modify the layout to ensure that "London 2012" is displayed as either formatted text or as plain text, depending on what the client browser supports. Which code segment should you add?

- A. <canvas id="myFooter">@(Request.Browser.JavaApplets ? new HtmlString("London 2012") : null) </canvas>
- B. <canvas id="myFooter">London 2012</canvas>
- C. <canvas id="myCanvas">London 2012</canvas>
- D. <canvas id="myCanvas"></canvas><p>London 2012</p>

**Answer:** C

**NEW QUESTION 4**

DRAG DROP

You need to implement security according to the business requirements. You have the following code:

```

Target 1
public class RunLogController : Controller
{
    Target 2
    public ActionResult GetLog()
    ...
    public ActionResult InsertLog()
    ...
    Target 3
    public ActionResult DeleteLog(int id)
    Target 4
    public ActionResult EditLog(int id)
    ...
}
    
```

Which code segments should you include in Target 1, Target 2, Target 3 and Target 4 to modify RunLogController? To answer, drag the appropriate code segment to the correct targets. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- Target 1: [Authorize]
- Target 2: [AllowAnonymous]
- Target 3: [Authorize(Roles = "Admin")]
- Target 4: [Authorize(Roles = "Admin")]

**NEW QUESTION 5**

You need to ensure that new customers enter a valid email address.  
Which code should you use? (Each correct answer presents part of the solution. Choose all that apply.)

- A. 

```
[RegularExpression (emailPattern, ErrorMessage = EmailErrorMessage)]
[DataType (DataType.EmailAddress)]
public string Email { get; set; }
```
- B. 

```
[RegularExpression(EmailRegex, ErrorMessage = EmailErrorMessage,
ErrorMessageResourceType = DataType.EmailAddress)]
[ComplexType]
public string Email { get; set; }
```
- C. 

```
<%: Html.Raw(m => m.Email) %>
```
- D. 

```
<%: Html.TextBoxFor (m => m.Email) %>
```

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

**Answer:** AD

**NEW QUESTION 6**

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 7

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 8

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 9**

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 10**

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 10**

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..ContentType == )
    {
        if (httpContext..)
        {
            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 = ;
    
    "image/png"
    "image/gif"
    "image/jpeg"
    "image/bmp"
    var normalFormat = ;
    
    "image/png"
    "image/gif"
    "image/jpeg"
    "image/bmp"
    if (httpContext..ContentType == )
    {
        
        Response
        Request
        Application
        Handler
        
        "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);
    }
}
}
```

**NEW QUESTION 12**

You need to modify the application to meet the productId requirement. Which code segment should you use?

A. Modify the **RegisterGlobalFilters** method of the Global.asax.cs file as follows.

```
Contract.Assume<ArgumentException>(productId != 0);
```

B. Modify the **GetDealPrice** method of **ProductController** as follows.

```
Contract.RequiresAssume<ArgumentException>(productId != 0);
```

C. Modify the **GetDealPrice** method of **ProductController** as follows.

```
Contract.Requires<ArgumentException>(productId > 0);
```

D. Modify the **RegisterGlobalFilters** method of the Global.asax.cs file as follows.

```
Contract.Requires<ArgumentException>(productId > 0);
```

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

**Answer: C**

**Explanation:**

Scenario: The value of the productId property must always be greater than 0.

Note: 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 16**

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 18**

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**

**Explanation:**

From scenario: Information about the first product on the product page must fade out over time to encourage the user to continue browsing the catalog.

**NEW QUESTION 21**

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 22

##### HOTSPOT

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

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..ContentType == )
    {
        Response
        Request
        Application
        Handler
        "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);
    }
}
```

Case Study: 3,  
Video Transcoding Service  
Background  
You are developing a video transcoding service. This service is used by customers to upload video files, convert video to other formats, and view the converted files. This service is used by customers all over the world.  
Business Requirements  
The user-facing portion of the application is an ASP.NET MVC application. It provides an interface for administrators to upload video and schedule transcoding. It also enables administrators and users to download the transcoded videos.

When videos are uploaded, they are populated with metadata used to identify the video. The video metadata is gathered by only one system when the video upload is complete. Customers require support for Microsoft Internet Explorer 7 and later.

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.

Technical Requirements

User Experience:

? The front-end web application enables a user to view a list of videos.

? The main view of the application is the web page that displays the list of videos.

? HTML elements other than the list of videos are changed with every request requiring the page to reload.

Compatibility:

? Some customers use browsers that do not support the HTTP DELETE verb.

? These browsers send a POST request with an HTTP header of X-Delete when the intended action is to delete.

Transcoding:

? The video transcoding occurs on a set of Windows Azure worker roles.

? The transcoding is performed by a third-party command line tool named transcode.exe. When the tool is installed, an Environment variable named transcode contains the path to the utility.

? A variable named license contains the license key. The license for the transcoding utility requires that it be unregistered when it is not in use.

? The transcoding utility requires a significant amount of resources. A maximum of 10 instances of the utility can be running at any one time. If an instance of the role cannot process an additional video, it must not prevent any other roles from processing that video.

? The utility logs errors to a Logs directory under the utilities path.

? A local Azure directory resource named perf is used to capture performance data.

Development:

? Developers must use Microsoft Remote Desktop Protocol (RDP) to view errors generated by the transcode.exe utility.

? An x509 certificate has been created and distributed to the developers for this purpose.

? Developers must be able to use only RDP and not any other administrative functions.

Application Structure

### TranscodeWorkerRole.cs

```
public class TranscodeWorkerRole : RoleEntryPoint
{
    public override void Run()
    {
        while (true)
        {
            var nextWorkItem = GetWorkItem();
            TranscodeService.Start(new [] { nextWorkItem } );
        }
    }

    private string GetWorkItem()
    {
        ...
    }
}
```

## ThumbnailGenerator.cs

```
public class ThumbnailGenerator : IHttpHandler
{
    public bool IsReusable
    {
        get { return true; }
    }

    public void ProcessRequest(HttpContext context)
    {
        var videoId = context.Request.QueryString["videoId"];
        var startBytes = File.ReadAllBytes(videoId);
        var bytes = BuildThumbnail(videoId);
        StreamResults(context, bytes);
    }

    private Task<byte[]> BuildThumbnail(string videoId)
    {
        return new Task<byte[]>(() => File.ReadAllBytes(videoId));
    }

    private void StreamResults(HttpContext context, byte[] content)
    {
    }
}
```

## VideoController.cs

```
[Authorize]
public class VideoController : Controller
{
    public ActionResult DownloadVideo(string videoId)
    {
        var stream = GetVideoStream(videoId);
        return File(stream, "video/mpeg");
    }

    [HttpPost]
    public ActionResult UploadVideo(string videoId)
    {
        return View();
    }

    [HttpDelete]
    public ActionResult DeleteVideo(string videoId)
    {
        return View();
    }

    public ActionResult VideoMetadata(string videoId)
    {
        var metadata = HttpContext.Cache[videoId];
        if (metadata == null)
        {
            metadata = LoadMetadata(videoId);
            HttpContext.Cache[videoId] = metadata;
        }
        return View(metadata);
    }

    public ActionResult ListVideos()
    {
        return View();
    }
}
```

### DeleteHandler.cs

```
public class DeleteHandler : DelegatingHandler
{
    protected override Task<HttpResponseMessage> SendAsync
    (HttpRequestMessage request,
    CancellationToken cancellationToken)
    {
        ...
    }
}
```

### VideoAdminAttributes.cs

```
public class VideoAdminAttribute : Attribute
{
    private IEnumerable<string> Admins()
    {
        ...
    }
}
```

### AdminVerifierFactory.cs

```
public class AdminVerifierFactory : DefaultControllerFactory
{
    public override IController CreateController(RequestContext requestContext,
    string controllerName)
    {
        return base.CreateController(requestContext, controllerName) as Controller;
    }
}
```

#### NEW QUESTION 27

Customers download videos by using HTTP clients that support various content encodings. You need to configure caching on the DownloadVideo action to maximize performance. Which attribute should you add?

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

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

Answer: E

**NEW QUESTION 32**

**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 36**

The transcode.exe utility activates its license online when it is installed. You need to ensure that the registration of the transcode utility is handled as specified in its license. Which method should you add to the TranscodeWorkerRole class?

- A. 

```
public override void OnStop()
{
    RoleEnvironment.Stopping += (sender, args) =>
    {
        var task = Process.Start("transcode.exe", "unregister");
        if (task.HasExited)
            base.OnStop();
    };
}
```
- B. 

```
public override void OnStop()
{
    RoleEnvironment.Stopping += (sender, args) =>
    {
        Process.Start("transcode.exe", "unregister").WaitForExit();
        base.OnStop();
    };
}
```
- C. 

```
public override void OnStop()
{
    Process.Start("transcode.exe", "unregister");
    base.OnStop();
}
```
- D. 

```
public override void OnStop()
{
    Process.Start("transcode.exe", "unregister").WaitForExit();
    base.OnStop();
}
```

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

Answer: D

**NEW QUESTION 37**

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.)

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```

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

```

**NEW QUESTION 39**

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 44**

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.cs?

- A. 

```
if (requestContext.RouteData.Values["Administrator"] == null)
    throw new Exception("Not an Administrator");

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("Not an Administrator");

return 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.HttpContext.Items["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 47**

- (Exam Topic 4)

You are developing the landing page for an ASP.NET Core MVC web application that will be used to host blogs. You are implementing a View component to show text links for common application operations.

Users must be able to customize the HTML for landing pages.

You need to ensure that the links for common operations reflect the desired layout of the application when links are embedded into customized views.

Which CSS measurement unit should you use for the links?

- A. px  
B. em  
C. rem  
D. vh

**Answer: C**

**NEW QUESTION 51**

- (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 netstandard.l 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 boat 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 54**

- (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  and retrieve selected values from the .

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

**Words**

- model binder
- model
- http context
- binding context
- http handler

**Answer area**

Create a custom  and retrieve selected values from the .

**NEW QUESTION 58**

- (Exam Topic 4)

You are developing an ASP.NET MVC application.

You must handle any first chance exceptions that the application throws. The exception handler has the following requirement.

- Catch any first chance exceptions thrown by the default app domain.
- Display the name of the app domain that caused the exception.
- Display the message for the exception.

You need to implement the exception handler. How should you complete the relevant code?

**Code segments**

- FirstChanceExceptionEventArgs
- FriendlyName
- FirstChanceException
- SystemException
- AppDomain
- System
- SystemExceptionEventArgs

**Answer Area**

```
class FirstChanceExceptionTest
{
    static void Handler(object src, )
    {
        Console.WriteLine("FirstChanceException raised in {0}: {1}",
            , ,
            e.Exception.Message);
    }
    static void Main()
    {
        .CurrentDomain.
        = Handler;
    }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

### Code segments

```

FirstChanceExceptionEventArgs
FriendlyName
FirstChanceException
SystemException
AppDomain
System
SystemExceptionEventArgs
    
```

.....

### Answer Area

```

class FirstChanceExceptionTest
{
    static void Handler(object src, FirstChanceExceptionEventArgs e)
    {
        Console.WriteLine("FirstChanceException raised in {0}: {1}",
            AppDomain.CurrentDomain.FriendlyName,
            e.Exception.Message);
    }
    static void Main()
    {
        AppDomain.CurrentDomain.FirstChanceException
        = Handler;
    }
}
    
```

**NEW QUESTION 62**

- (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 67**

- (Exam Topic 4)

You are designing a distributed banking application that handles multiple customers. A user may log on to the site to perform activities such as checking balances, performing transactions, and other activities that must be done securely.

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

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

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

**Answer:** A

**NEW QUESTION 72**

- (Exam Topic 4)

You have two Microsoft Azure subscriptions. One subscription emits logs. You plan to deploy audit tools to the other subscription to allow users to analyze logs

that the first subscription emits.

You perform the following actions

- Configure resource diagnostic logs for non-compute resources in the Azure portal.
- Use Event Hubs metrics and set the log category to Operational Logs.
- Set a retention policy of seven days. Users report that no log files are available

You need to ensure that log files are available for users.

- A. Change the Role-Based Access Control (RBAC) access in both subscriptions to match.
- B. Combine all tools and objects into the same subscription.
- C. Set the log category to Audit
- D. Store the logs in a Storage account

**Answer: D**

**NEW QUESTION 77**

- (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 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 Kestrel with an US reverse proxy.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer: B**

**NEW QUESTION 79**

- (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	Answer area
style="behavior: url(colorchange.js);"	Target 1: <input type="text" value="Style"/>
style="url: colorchange.js;"	Target 2: <input type="text" value="Style"/>
style="behaviorurl: colorchange.js;"	
url(colorchange.js);"	
behavior(colorchange.js);"	
colorchange.js;"	

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**NEW QUESTION 81**

- (Exam Topic 4)

You are developing an ASP.NET MVC application that uses forms authentication. The application uses SQL queries that display customer order data. Logs show there have been several malicious attacks against the servers. You need to prevent all SQL injection attacks from malicious users against the application. How should you secure the queries?

- A. Check the input against patterns seen in the logs and other records.
- B. Escape single quotes and apostrophes on all string-based input parameters.
- C. Implement parameterization of all input strings.
- D. Filter out prohibited words in the input submitted by the users.

**Answer: C**

**Explanation:**

SQL Injection Prevention, Defense Option 1: Prepared Statements (Parameterized Queries)

The use of prepared statements (aka parameterized queries) is how all developers should first be taught how to write database queries. They are simple to write, and easier to understand than dynamic queries. Parameterized queries force the developer to first define all the SQL code, and then pass in each parameter to the query later. This coding style allows the database to distinguish between code and data, regardless of what user input is supplied. Prepared statements ensure that an attacker is not able to change the intent of a query, even if SQL commands are inserted by an attacker.

**NEW QUESTION 84**

- (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 IServiceCollectio
- 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 85**

- (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	Answer area	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 89**

- (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();
}
```

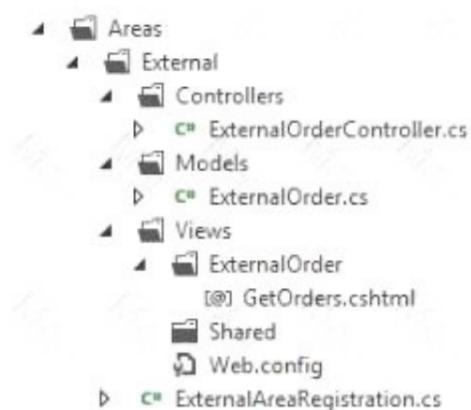
References: <https://docs.microsoft.com/en-us/aspnet/core/fundamentals/startup?view=aspnetcore-2.1>

**NEW QUESTION 91**

- (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 94**

- (Exam Topic 4)

You develop an ASP.NET MVC application. You plan to implement ASP.NET SignalR for real-time push notifications. The application includes the following class:

```
public class MyHub : Hub
{
    public void Hello(string message)
    {
        Clients.All.hello(message);
    }
}
```

You need to display the message.

How should you complete the relevant code segment? 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**

<code>\$.connection.hub('local');</code>
<code>\$.hubConnection();</code>
<code>\$.hubConnection().connection.start();</code>
<code>hub.on('hello', function (message) {</code>
<code>hub.start('function', function (hello) {</code>
<code>con.createHubProxy('MyHub');</code>
<code>con.start();</code>

**Answer Area**

```

<div>
  <script src="~/Script/jquery.js"></script>
  <script src="~/Script/jquery.signalR.js"></script>
  <div id="message"></div>
  <script type="text/javascript">
    $(function() {
      var con = 
      var hub = 
      
      $('#message').text(message);
    });
  </script>
</div>

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: \$.hubconnection(); Create a connection.

Box 2: con.createHubProyxy('MyHub');

Declare a proxy to reference the hub.

Box 3: hub.start()('function', function(hello) { Start the connection

References: <https://www.asp.net/signalr/overview/getting-started/tutorial-getting-started-with-signalr>

**NEW QUESTION 98**

- (Exam Topic 4)

You are developing an ASP.NET Core MVC web application. The web application must meet the following requirements:

- Allow users to create a user name and password.
- Use cookie-based authentication.
- Store user credentials in a Microsoft SQL Server database. You need to implement ASP.NET Core Identity.

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 Startup
{
    ...
    public void ConfigureServices(IServiceCollection services)
    {
        services.AddDbContext<ApplicationDbContext>(options =>
            options. UseSqlServer  
UseSqlite  
UseInMemoryDatabase (Configuration.GetConnectionString("DefaultConnection")));

        services. AddAuthentication  
AddIdentity  
AddAuthorization <ApplicationUser, IdentityRole>()

        .AddEntityFrameworkStores<ApplicationDbContext>()
        .AddDefaultTokenProviders();

        services. Configure  
AddAuthentication  
AddAuthorization <IdentityOptions>(options =>
        {
            options.Password.RequireDigit = true;
            options.Lockout.DefaultLockoutTimeSpan = TimeSpan.FromMinutes(30);
        });

        services. ConfigureApplicationCookie  
AddAuthentication  
AddAuthorization (options =>
        {
            options.Cookie.HttpOnly = true;
            options.Cookie.Expiration = TimeSpan.FromDays(90);
            options.SlidingExpiration = true;
        });
    }

    public void Configure(IApplicationBuilder app, IHostingEnvironment env)
    {
        ...
        app. UseAuthentication  
UseCookieAuthentication  
UseIdentity ();
        ...
    }
}

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: UseSqlServer

Box 2: AddIdentity

Box 3: Configure

Box 4: ConfigureApplicationCookie

Box 5: UseAuthentication References:

<https://docs.microsoft.com/en-us/aspnet/core/security/authentication/identity?view=aspnetcore-2.1&tabs=visual->

**NEW QUESTION 101**

- (Exam Topic 4)

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 segment 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.

**Answer Area**

**Markup Segments**

- Variable**
- Environment**
- foreground**
- background**
- simple**

**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:**

Simple: Means this task would needs to be complete before the Role Starts. If task will not complete and exit, the Role will stuck to wait till the task completion. Simple tasks run until they exit, and then the next task (or the RoleEntryPoint if this is the last startup task) is executed.

**NEW QUESTION 103**

- (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="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 checked="" type="radio"/>
The Web role initiates a shutdown immediately following the return of the <b>OnStop</b> method code.	<input checked="" type="radio"/>	<input type="radio"/>

**NEW QUESTION 106**

- (Exam Topic 4)

DRAG DROP

You are developing an ASP.NET MVC application that allows users to log on by using a third-party authenticator.

You need to configure Microsoft Azure Access Control Services and the application.

Which five actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Actions	Answer Area
Generate provider rules for claims.	
Register the application as the relying party.	
Add a Security Token Service (STS) reference in Visual Studio 2012.	
Create a service namespace.	
Add the third-party as the identity provider.	
Add a symmetric key service identity.	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Create a service namespace

The first step is to create an ACS Namespace. This is your Security Token Services (STS) that will generate Signed Identity tokens to be consumed by WAP. This will also be the only STS that WAP will trust.

Box 2: Register the application as a relaying partner.

Now that the Namespace is created, you will have to tell it about the WAP Portals that is expecting tokens from it. We add the WAP Tenant Portal as a Relying Party to ACS (Access Control Services).

Box 3: Add a Security Token Service (STS) reference in Visual Studio 2012.

Now that the Namespace is created, you will have to tell it about the WAP Portals that is expecting tokens from it.

1. Click on Relying Party Applications and click on Add to add the Windows Azure Pack tenant Portal as a Relying Party to this namespace. This essentially tells the ACS namespace that the Tenant Portal is expecting it to provide user identities.

2. You will now go to the Add Relying Party Application page where you can enter details about the WAP tenant Portal.

3. The easier option is to provide the federation Metadata from the tenant portal. Save the XML file locally on your computer

4. Now back in the ACS management portal, Upload the federation metadata file and provide a Display Name for the Relying Party.

5. Scroll Down to the Token Format section and choose the token format to be 'JWT'. By Default, the Windows Live Identity Provider will be selected. Deselect it if you do not want to allow users to sign in using their Live id. Under the Token Signing Settings section, select X.509 Certificate as the Type. Click on Save.

Box 4: Add the third-party as the identity provider.

We have our ACS and WAP portals setup. We now have to find a source of Identities that can be flown in to the WAP Portals through ACS. We configure external services to act as Identity Providers

Box 5: Generate provider rules for claims

We now have our Relying Party and our Identity Providers set up. We should now tell ACS how to transform the incoming Claims from these Identity providers so that the Relying Party can understand it. We do that using Rule Groups which are a set of rules that govern Claim Transformation. Since, we have two identity Providers, we will have to create a rule for each of these.

References:

<https://blogs.technet.microsoft.com/privatecloud/2014/01/17/setting-up-windows-azure-active-directory-acsto-p>

**NEW QUESTION 111**

- (Exam Topic 4)

You are designing an HTML5 website.

You need to design the interface to make the content of the web page viewable in all types of browsers, including voice recognition software, screen readers, and reading pens.

What should you do? (Each correct answer presents a complete solution. Choose all that apply.)

- A. Annotate HTML5 content elements with Accessible Rich Internet Application (ARIA) attributes.
- B. Convert HTML5 forms to XForms.
- C. Ensure that HTML5 content elements have valid and descriptive names.
- D. Use HTML5 semantic markup elements to enhance the pages.
- E. Use Resource Description Framework (RDF) to describe content elements throughout the entire page.

**Answer:** ACD

**Explanation:**

A: The aria-describedby property may be used to attach descriptive information to one or more elements through the use of an id reference list. The id reference list contains one or more unique element ids.

References: <https://www.w3.org/TR/WCAG20-TECHS/ARIA1.html>

**NEW QUESTION 114**

- (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 118**

- (Exam Topic 4)

You are developing a controller for an ASP.NET MVC application that manages message board postings. The security protection built in to ASP.NET is preventing users from saving their HTML.

You need to enable users to edit and save their HTML while maintaining existing security protection measures.

Which code segment should you use?

- A. 

```
[ValidateInput(false)]
public class MessageBoardController : Controller
{
    public ActionResult SavePosting(MessageBoardPosting mbp)
    {
        SaveMessageBoardPosting(mbp);
        return View("ManagePosting");
    }
}
```
- B. 

```
public class MessageBoardController : Controller
{
    [ValidateInput(true)]
    public ActionResult SavePosting(MessageBoardPosting mbp)
    {
        SaveMessageBoardPosting(mbp);
        return View("ManagePosting");
    }
}
```
- C. 

```
[ValidateInput(true)]
public class MessageBoardController : Controller
{
    public ActionResult SavePosting(MessageBoardPosting mbp)
    {
        SaveMessageBoardPosting(mbp);
        return View("ManagePosting");
    }
}
```
- D. 

```
public class MessageBoardController : Controller
{
    [ValidateInput(false)]
    public ActionResult SavePosting(MessageBoardPosting mbp)
    {
        SaveMessageBoardPosting(mbp);
        return View("ManagePosting");
    }
}
```

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

**Answer: B**

**NEW QUESTION 123**

- (Exam Topic 4)

You are developing an ASP.NET Core web application. The application includes a secure area only accessible to authenticated users.

The application must:

- Reside on the same server as the reverse proxy.
- Use a reverse proxy for caching and serving static content.
- Use basic authentication for the secure area.
- Use the HTTPS protocol for the secure area.
- Use the HTTPS protocol for all non-secure content. You need to deploy the application.

Which two actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A. Use the RewriteMiddleware from Microsoft.AspNetCore.Rewrite.
- B. Use the ForwardedHeaders middleware from Microsoft.AspNetCore.HttpOverrides.
- C. Use Http.sys as the web server for the application and Apache on Linux as the reverse proxy.
- D. Use Kestrel as the web server for the application and Nginx on Linux as the reverse proxy.

**Answer:** AD

**Explanation:**

References:

<https://docs.microsoft.com/en-us/aspnet/core/fundamentals/url-rewriting?view=aspnetcore-2.1> <https://docs.microsoft.com/en-us/aspnet/core/fundamentals/servers/kestrel?view=aspnetcore-2.1>

**NEW QUESTION 125**

- (Exam Topic 4)

DRAG DROP

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.

How should you implement the route handler? (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.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References:

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

**NEW QUESTION 127**

- (Exam Topic 4)

A company has an enterprise library that targets the full .NET framework.

You must convert the library to target .NET Standard. You replace the original project file with a .NET Standard project file. When you compile the library, the compiler throws the following errors: error CS0579: Duplicate 'System.Reflection.AssemblyCompanyAttribute' error CS0579: Duplicate 'System.Reflection.AssemblyVersionAttribute'

You need to resolve the errors.

Which two actions should you perform? Each correct answer presents part of the solution.

- A. Delete the Main folder and recompile the library.
- B. Delete the Properties folder and recompile the library.
- C. Add the GenerateAssemblyInfo property to the .NET Standard project file and set the value to False.

D. Add the GenerateAssemblyInfo property to the .NET Standard project file and set the value to True.

**Answer:** BD

**NEW QUESTION 131**

- (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 135**

- (Exam Topic 4)

You are designing a hybrid application that runs across a Microsoft Azure data center and your company's on-premises enterprise environment.

You have the following requirements:

- ▶ Windows Communication Foundation (WCF) services that reside within the corporate enterprise network must be securely exposed to the public cloud.
- ▶ A firewall connection and intrusive changes to the corporate network infrastructure are not allowed. You need to design the application to meet the requirements.

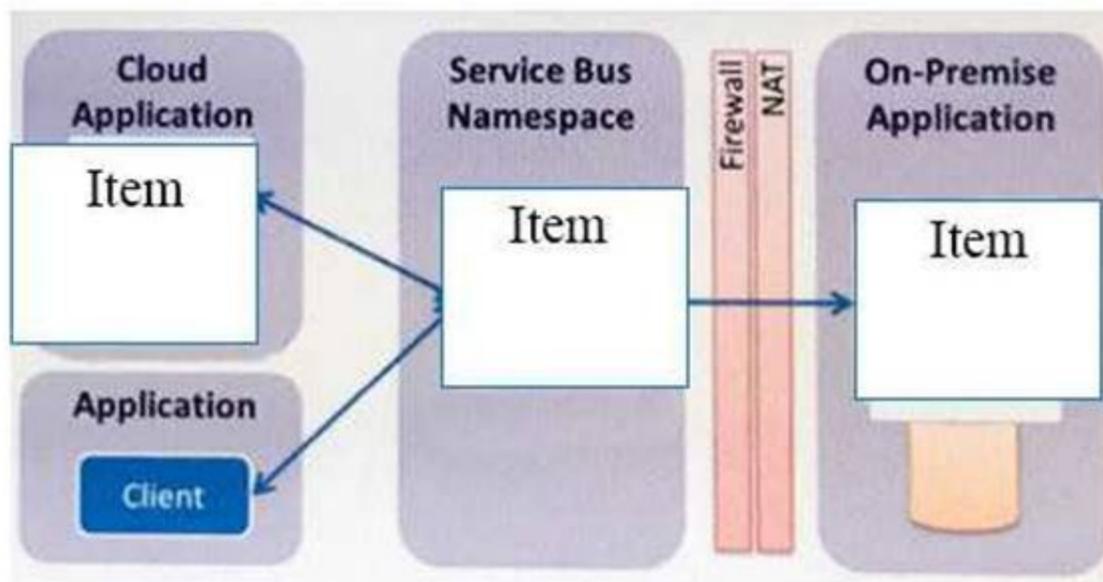
How should you design the application? To answer, drag the appropriate item to the correct location or locations. Each item may be used once, more than once or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Items**

Microsoft Azure CDN	Azure Relay
Traffic Manager	WCF Service
Web Role	

**Answer Area**



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References: <https://docs.microsoft.com/en-us/azure/service-bus-relay/relay-wcf-dotnet-get-started>

**NEW QUESTION 139**

- (Exam Topic 4)

You are developing an ASP.NET MVC application that delivers real-time game results to sports fans. The application includes the following code. Line numbers are included for reference only.

```

01 public class HomeController : Controller
02 {
03     public ActionResult Index()
04     {
05         return View();
06     }
07     [OutputCache(Duration = 3600, VaryByParam = "none", Location = OutputCacheLocation.Server, NoStore = true)]
08     public ActionResult GetUserInfo()
09     {
10         return View();
11     }
12     [OutputCache(Duration = 3600, VaryByParam = "none", Location = OutputCacheLocation.Server, NoStore = true)]
13     public ActionResult GetResults()
14     {
15         return View();
16     }
17 }

```

The source data for the game results is updated every 30 seconds. Testers report the following issues with the application:

- They report seeing other user's name when they sign in to the application.
- They report delays in seeing the latest game results.

You need to correct the performance issues.

Which two changes should you make to the code? Each correct answer presents part of the solution.

- A. Replace the code at line 07 with the following code segment:[OutputCache(Duration = 30, VaryByParam = "none", Location = OutputCacheLocation.Client, NoStore = true)]
- B. Replace the code at line 12 with the following code segment:[OutputCache(Duration = 30, VaryByParam = "none", Location = OutputCacheLocation.Server, NoStore = true)]
- C. Replace the code at line 07 with the following code segment:[OutputCache(Duration = 3600, VaryByParam = "none", Location = OutputCacheLocation.Server, NoStore = false)]
- D. Replace the code at line 12 with the following code segment:[OutputCache(Duration = 3600, VaryByParam = "none", Location = OutputCacheLocation.Client, NoStore = true)]

**Answer:** AB

**Explanation:**

B: They report delays in seeing the latest game results. This is the output of the GetResults() function. We decrease the Duration in the cache for this function from 3600 to 30. This is one line 12.

A: They report seeing other user's name when they sign in to the application. This is the output of the GetUserInfo() function. We should change the OutputCacheLocation of the caching of this function from Server to Client. This is on line 7.

Note: The OutputCacheLocation.Client option indicates that the content should be cached at the requesting client. Any requests for the same resource made from the same client within the expiry period, will be served out the client's cache, without a network request being made to the server.

The OutputCacheLocation.Server option indicates that the content will be cached at the origin server. This content will be served for subsequent requests made by the initial client and any other client requesting the same resource within the expiry period.

References: <https://growlycode.wordpress.com/2014/01/10/mvc4-outputcache-location-basics/>

**NEW QUESTION 143**

- (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 ACSProviderClaim =
        "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 == ACSProviderClaim)
                {
                    _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	Answer area
ClaimNames	Target 1: Code Segment
ClaimTypes	Target 2: Code Segment
IIdentityClaims	Target 3: Code Segment
IClaimsIdentity	Target 4: Code Segment
ClaimType	
ClaimName	

- 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 ACSProviderClaim = "  
 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 == ACSProviderClaim)  
 {  
 \_identityProvider = claim.Value;  
 }  
 }  
 }  
 }  
 }

**NEW QUESTION 147**

- (Exam Topic 4)

You are developing an ASP.NET MVC application.

The application provides a RESTful API for third-party applications. This API updates the information for a contact by embedding the information in the URL of an HTTP POST.

You need to save the Contact type when third-party applications use the EditContact method.

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

- A. 

```
public ActionResult EditContact(FormCollection values)
{
    var c = new Contact()
    {
        FirstName = values["FirstName"],
        LastName = values["LastName"]
    };
    SaveContact(c);
    return View(c);
}
```
- B. 

```
public ActionResult EditContact(Contact c)
{
    SaveContact(c);
    return View(c);
}
```
- C. 

```
public ActionResult EditContact()
{
    var c = new Contact()
    {
        FirstName = Request.QueryString["FirstName"],
        LastName = Request.QueryString["LastName"]
    };
    SaveContact(c);
    return View(c);
}
```
- D. 

```
public ActionResult EditContact(QueryStringValueProvider values)
{
    var c = new Contact()
    {
        FirstName = values.GetValue("FirstName"),
        LastName = values.GetValue("LastName")
    };
    SaveContact(c);
    return View(c);
}
```

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

**Answer:** BC

**Explanation:**

Basics of RESTful services:

REST stands for Representational State Transfer, it is a simple stateless architecture that runs over HTTP where each unique URL is representation of some resource. There are four basic design principles which should be followed when creating RESTful service:

\* Use HTTP methods (verbs) explicitly and in consistent way to interact with resources (Uniform Interface),

i.e. to retrieve a resource use GET, to create a resource use POST, to update a resource use PUT/PATCH, and to remove a resource use DELETE.

Etc.

**NEW QUESTION 148**

- (Exam Topic 4)

You are developing an Azure worker role. You enable crash dump collection for the role. When the role starts, an external application stops responding.

You need to download the crash dump to determine why the application stops responding.

From which two locations can you download the crash dump? Each correct answer presents a complete solution.

- A. Azure Blob storage
- B. the temp folder on the virtual machine that is running the role instance
- C. Azure file storage
- D. the DiagnosticStore local resource folder on the virtual machine that is running the role instance

**Answer:** AD

**Explanation:**

When you enable collection of crash dumps, the resulting data is written to the CrashDumps directory in the DiagnosticStore local resource that is automatically configured for your role.

When crash dump data is transferred to persistent storage, it is stored to the wad-crash-dumps Blob container. References:

**NEW QUESTION 152**

- (Exam Topic 4)

You develop an ASP.NET MVC application. The application is configured for claims-based authentication by using Windows Identity Foundation (WIF).

You need to access the claims in the WIF token. Which code segment should you use?

- A. Thread.CurrentPrincipal.Identity;
- B. ((IClaimsPrincipal)Thread.CurrentPrincipal).Identities[0].Claims;
- C. Thread.CurrentPrincipal;
- D. ((IClaimsPrincipal)Thread.CurrentPrincipal).Identities[0].IsAuthenticated;

**Answer:** B

**Explanation:**

To Access the Claims

In order to access identity related information, you can run FedUtil. Once you have run FedUtil, your application can access IClaimsPrincipal and IClaimsIdentity using the standard ASP.NET constructs as shown in the following code example:

```
void Page_Load(object sender, EventArgs e)
{
// Cast the Thread.CurrentPrincipal
IClaimsPrincipal icp = Thread.CurrentPrincipal as IClaimsPrincipal;
// Access IClaimsIdentity which contains claims IClaimsIdentity claimsIdentity = (IClaimsIdentity)icp.Identity;
// Access claims
foreach(Claim claim in claimsIdentity.Claims)
{
}
}
```

References: <https://msdn.microsoft.com/en-us/library/ee517271.aspx>

**NEW QUESTION 156**

- (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 158**

- (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 159**

- (Exam Topic 4)

You are developing an ASP.NET MVC application that uses forms authentication. The user database contains a user named OrderAdmin.

You have the following requirements:

- You must allow all users to access the GetOrders method.
- You must restrict access to the EditOrder method to the user named OrderAdmin.

You need to implement the controller to meet the requirements.

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

**A.** `[Authorize(Roles = "Anonymous")]`  
`public class OrderController : Controller`  
{  
    `public ActionResult GetOrders()`  
    {  
        ...  
        `return View();`  
    }  
  
    `[Authorize(Users = "OrderAdmin")]`  
    `public ActionResult EditOrder()`  
    {  
        ...  
        `return View();`  
    }  
}

**B.** `[Authorize]`  
`public class OrderController : Controller`  
{  
    `[AllowAnonymous]`  
    `public ActionResult GetOrders()`  
    {  
        ...  
        `return View();`  
    }  
    `[Authorize(Users = "OrderAdmin")]`  
    `public ActionResult EditOrder()`  
    {  
        ...  
        `return View();`  
    }  
}

**C.** `[Authorize]`  
`public class OrderController : Controller`  
{  
    `[Authorize(Roles="Anonymous")]`  
    `public ActionResult GetOrders()`  
    {  
        ...  
        `return View();`  
    }  
  
    `[Authorize(Users = "OrderAdmin")]`

```
public ActionResult EditOrder()
{
    ...
    return View();
}
}
```

**D.** `[Authorize]`

```
public class OrderController : Controller
{
    [AllowAnonymous]
    public ActionResult GetOrders()
    {
        ...
        return View();
    }

    [Authorize]
    public ActionResult EditOrder()
    {
        if (this.HttpContext.User.Identity.Name != "OrderAdmin")
        {
            return RedirectToAction("Login", "Account", new
            { returnUrl = "/Order/EditOrder" });
        }
        else
        {
            ...
            return View();
        }
    }
}
```

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

**Answer:** B

**Explanation:**

With MVC4 a new attribute has been introduced, namely the `[AllowAnonymous]` attribute. Together with the `[Authorize]` attribute, you can now take a white-list approach instead. The white-list approach is accomplished by dressing the entire controller with the `[Authorize]` attribute, to force authorization for all actions within that controller. You can then dress specific actions, that shouldn't require authorization, with the `[AllowAnonymous]` attribute, and thereby white-listing only those actions. With this approach, you can be confident that you don't, by accident, forget to dress an action with the `[Authorize]`, leaving it available to anyone, even though it shouldn't.

References:

<http://stackoverflow.com/questions/9727509/how-to-allow-an-anonymous-user-access-to-some-given-page-in-m>

**NEW QUESTION 160**

- (Exam Topic 4)

You have a class that includes the following code. (Line numbers are included for reference only.)

```

01
02 public class EmployeeController : Controller
03 {
04     public ActionResult Index()
05     {
06         return View();
07     }
08     [HttpPost]
09     [ValidateAntiForgeryToken]
10
11     public ActionResult Create(IFormCollection collection)
12     {
13         . . .
14     }
15     [HttpPost]
16     [ValidateAntiForgeryToken]
17
18     public ActionResult Edit(int id, IFormCollection collection)
19     {
20         . . .
21     }
22 }

```

You must enforce the following requirements for the actions:

Action	Comments
Edit	Only users that are assigned to either the HR-Administrator role or the Global-Administrator role are permitted to call this action.
Create	Only users that are assigned to both the HR-Administrator role and the Global-Administrator role are permitted to call this action.
Index	All authorized users must be able to call this action.

You need to configure the class.

Which three actions should you perform? Each correct answer presents part of the solution. NOTE: Each correct selection is worth one point.

- A Add the following code segment at line 17:  
`[Authorize (Roles = "HR-Administrator")]`  
`[Authorize (Roles = "Global-Administrator")]`
- B Add the following code segment at line 1:  
`[Authorize]`
- C Add the following code segment at line 10:  
`[Authorize (Roles = "HR-Administrator, Global-Administrator")]`
- D Add the following code segment at line 1:  
`[Authorize (Roles = "HR-Administrator")]`  
`[Authorize (Roles = "Global-Administrator")]`
- E Add the following code segment at line 17:  
`[Authorize (Roles = "HR-Administrator, Global-Administrator")]`
- F Add the following code segment at line 10:  
`[Authorize (Roles = "HR-Administrator")]`  
`[Authorize (Roles = "Global-Administrator")]`

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

**Answer:** BEF

**Explanation:**

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

**NEW QUESTION 163**

- (Exam Topic 4)

DRAG DROP

You are building an ASP.NET MVC web application.

The application will be viewed by users on their mobile phones.

You need to ensure that the page fits within the horizontal width of the device screens. You have the following markup:

```
<!DOCTYPE html>
<html>
<head>
  <title>@ViewBag.Title</title>
  <Target 1 Target 2 Target 3>
  <link href="@Url.Content("~/Content/Site.css")"
    rel="stylesheet" type="text/css" />
  <script src="@Url.Content("~/Scripts/jquery-1.6.2.min.js")"
    type="text/javascript"></script>
</head>
<body>
```

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

**Markup Segments**

meta

area

**Markup Segments**

name="viewport"

name="scheme"

**Markup Segments**

content="width=device-width"

content="user-scalable"

**Answer area**

Target 1: Markup segment

Target 2: Markup segment

Target 3: Markup segment

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**Markup Segments**

meta

area

**Markup Segments**

name="viewport"

name="scheme"

**Markup Segments**

content="width=device-width"

content="user-scalable"

**Answer area**

Target 1: meta

Target 2: name="viewport"

Target 3: content="width=device-width"

**NEW QUESTION 166**

- (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 171

- (Exam Topic 4)

You are building an ASP.NET application. You develop the following unit test code. Line numbers are included for reference only.

```

1 [TestClass]
2 public class UnitTest1 03 {
04 protected string _name; 05 protected float _expenses; 06 protected float _income; 07 protected float _payment; 08 protected float _balance;
09 public void AddCustomer(string name, float income, float payment, float balance) 10 {
11 _name = name;
12 _expenses = expenses; 13 _income = income;
14 _payment = payment; 15 _balance = balance; 16 CheckName();
17 DebRatio();
18 CheckBalance();
19 }
20 [TestMethod]
21 public void CheckName() 22 {
23 Assert.IsNotNull(_name, "CheckName failed unit test"); 24 }
25 [TestMethod]
26 public void DebRatio() 27 {
28 Assert.AreSame(_income, _payment, "DebRatio failed unit test"); 29 }
30 [TestMethod]
31 public void CheckBalance() 32 {
33 Assert.IsTrue(_balance >= 0.0f, "Check balance failed unit test."); 34 }
35}
    
```

You run the following line of code: AddCustomer("Contoso", 0, 100, 100, -1);

You need to evaluate the unit test results. For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Answer Area	Yes	No
The assertion at Line 23 will pass.	<input type="radio"/>	<input type="radio"/>
The assertion at Line 28 will pass.	<input type="radio"/>	<input type="radio"/>
The assertion at Line 33 will pass.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1: Yes  
Line 23 is Assert.IsNotNull(\_name, "CheckName failed unit test");  
\_name is "Contoso" so the assertion will succeed. Box 2: No  
Line 289 is Assert.AreSame(\_income, \_payment, "DebRatio failed unit test");  
\_income is 0 and payment is 100. The assertion will fail. Box 3: No  
Line 33 is Assert.IsTrue(\_balance >= 0.0f, "Check balance failed unit test.");  
\_balance is -1. The assertion will fail.

**NEW QUESTION 172**

- (Exam Topic 4)

You are developing an ASP.NET MVC application that uses forms authentication. The application uses SQL queries that display customer order data.

You need to prevent all SQL injection attacks against the application.

How should you secure the queries?

- A. Implement parameterization.
- B. Pattern check the input.
- C. Filter out prohibited words in the input.
- D. Escape single quotes on string-based input parameters.

**Answer:** A

**Explanation:**

With most development platforms, parameterized statements that work with parameters can be used (sometimes called placeholders or bind variables) instead of embedding user input in the statement. A placeholder can only store a value of the given type and not an arbitrary SQL fragment. Hence the SQL injection would simply be treated as a strange (and probably invalid) parameter value.

References:

**NEW QUESTION 177**

- (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: Reference System.Web.dll to run in a custom host. Does the solution meet the goal?

- A. Yes
- B. No

**Answer: B**

**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.

Code segments		Answer area
aspnetcore	dotnet	FROM Microsoft/ Code segment
nanoserver	{BuildType}\$	WORKDIR /app
{env: BuildType}\$	env: BuildType\$	EXPOSE 80
docker		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 187**

- (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

ITelemetry

TelemetryContext

ITelemetryChannel

RequestTelemetry

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Code segments

- ITelemetryProcessor
- ITelemetry
- TelemetryContext
- ITelemetryChannel
- RequestTelemetry

Answer area

```
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 192**

- (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 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 application startup code to debug the OWIN pipeline. Does the solution meet the goal?

- A. Yes
- B. No

**Answer: B**

**NEW QUESTION 196**

- (Exam Topic 4)

You need to enable client-side validation for an ASP.NET MVC application.

Which three actions should you perform? Each correct answer presents part of the solution.

- A. Attach a custom validation attribute to the model properties that the view uses.
- B. Reference the jquery, jquery.validate and jquery.validate.unobtrusive script files in the view.
- C. Open the web.config file at the project root, and set the values of the ClientValidationEnabled and UnobtrusiveJavaScriptEnabled keys to True.
- D. For each form element, use the Validator.element() method to validate each item.
- E. Add data annotations to the model properties that the view uses.

**Answer: BCE**

**Explanation:**

B: The validation can be implemented using jQuery and jQuery validation plug-in (jquery.validate.min.js and jquery.validate.unobtrusive.min.js).

C: When you are developing an MVC application in Visual Studio 2012 then the client-side becomes enabled by default, but you can easily enable or disable the writing of the following app setting code snippet in the web.config file.

```
<configuration>
<appSettings>
<add key="ClientValidationEnabled" value="true" />
<add key="UnobtrusiveJavaScriptEnabled" value="true" />
</appSettings>
</configuration>
```

E: The jQuery validation plug-in takes advantage of the Data Annotation attributes defined in the model, which means that you need to do very little to start using it. References:

**NEW QUESTION 199**

- (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>
    </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 203**

- (Exam Topic 4)

DRAG DROP

You plan a new ASP.NET MVC application.

The application uses the Model-View Controller (MVC) pattern to separate the modeling of the domain, the presentation, and the actions. This separation is based on user input into three separate classes.

You need to diagram the structural relationship between the three classes.

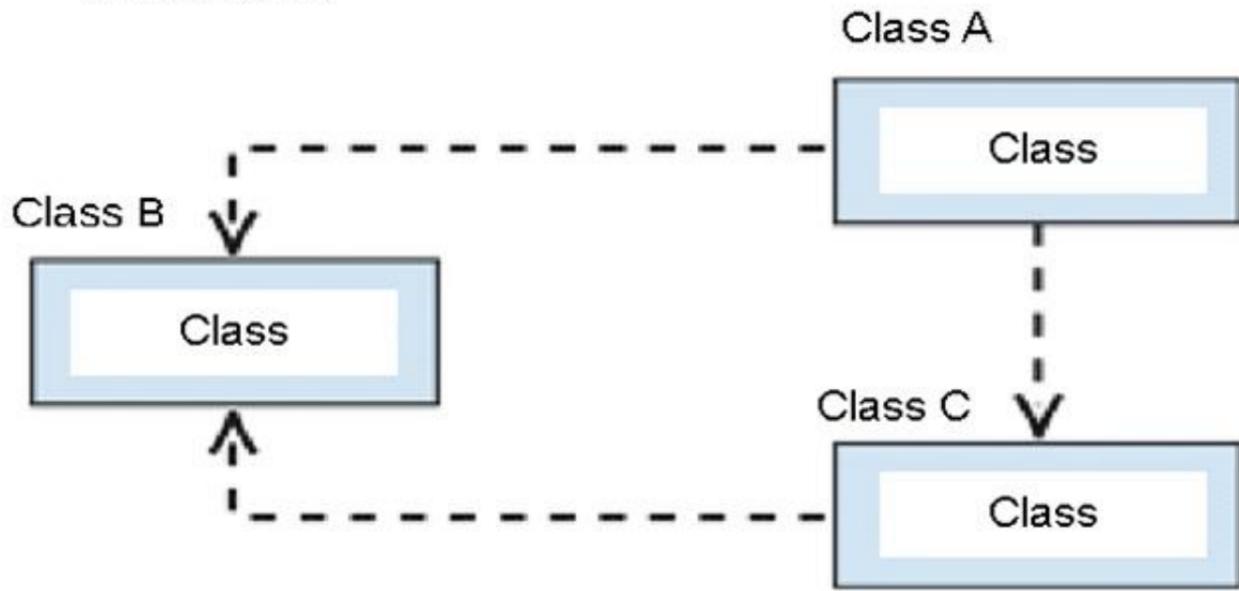
What should you do? To answer, drag the appropriate class to the correct location or locations. Each class name may be used once, more than once, or not at all.

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

**Classes**

- model
- view
- controller
- viewmodel
- client
- server

**Answer Area**

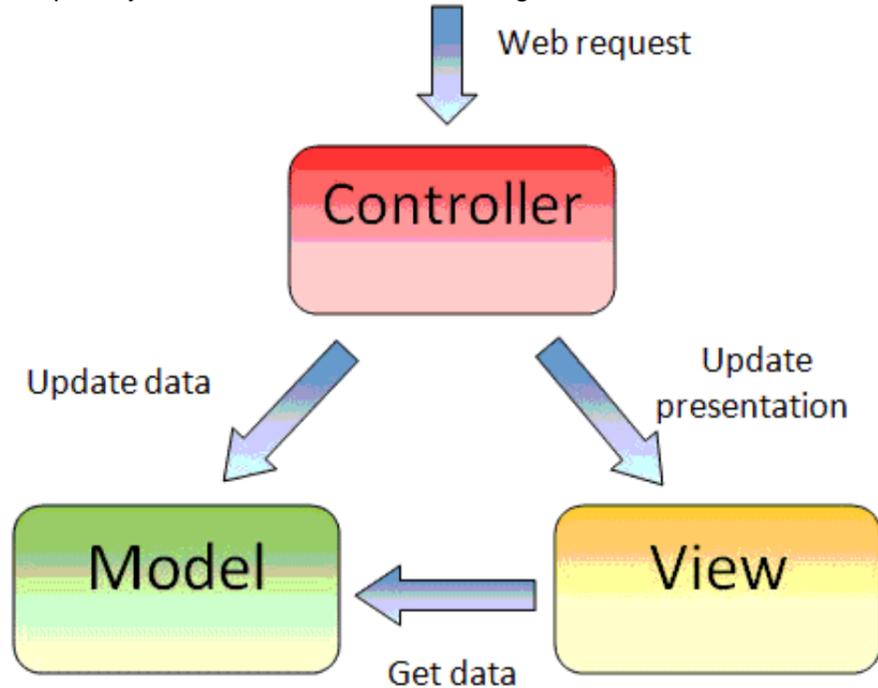


- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphically, MVC can be shown like on image bellow:



**References:**

<http://www.beansoftware.com/ASP.NET-Tutorials/Intro-ASP.NET-MVC.aspx>

**NEW QUESTION 204**

- (Exam Topic 4)

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 text.

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 the images to SVG.

Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:**

Converting the images to Scalable Vector Graphics (SVG) does not reduce the number of HTTP requests.

**NEW QUESTION 208**

- (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 211**

- (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 216**

- (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
- B. No

**Answer:** B

**NEW QUESTION 219**

- (Exam Topic 4)

You are developing an ASP.NET MVC application that will run in a shared environment.

The application requests the user's password, and then uses the password to sign data.

You need to minimize the potential for the password to be discovered by other processes that run in the shared environment. What should you do?

- A. Add the SecuritySafeCriticalAttribute attribute to the methods which process the password.
- B. Store the password in a SecureString instance.
- C. Encrypt the password on the web page, and decrypt the password in the MVC application.
- D. Run the code that processes the password in its own AppDomain.

**Answer:** D

**Explanation:**

Application domains provide a unit of isolation for the common language runtime. They are created and run inside a process. Application domains are usually created by a runtime host, which is an application responsible for loading the runtime into a process and executing user code within an application domain. The runtime host creates a process and a default application domain, and runs managed code inside it. Runtime hosts include ASP.NET, Microsoft Internet Explorer, and the Windows shell.

For most applications, you do not need to create your own application domain; the runtime host creates any necessary application domains for you. However, you can create and configure additional application domains if your application needs to isolate code or to use and unload DLLs.

References: [https://msdn.microsoft.com/en-us/library/yb506139\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/yb506139(v=vs.110).aspx)

**NEW QUESTION 222**

- (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 state information.

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

- A. A state server
- B. Cookieless sessions
- C. A web garden on the web servers
- D. An InProc session

**Answer:** A

**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.

Incorrect:

Not D: The InProc option is particularly dangerous in a web farm environment. For example imagine one farm machine which stores the session state but not the other. Subsequent web requests from the same user may not read the correct session state.

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

**NEW QUESTION 227**

- (Exam Topic 4)

**HOTSPOT**

You are optimizing an Internet-facing website for search engine optimization.

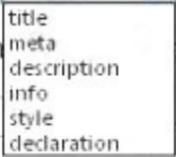
You are reading a Site Analysis Report from the SEO Toolkit. The report returns warnings that indicate the website HTML lacks key information necessary for search engine indexing.

You need to improve the optimization of the site.

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

**Answer Area**

Add the <  > tag inside of the <head> section of the page.



The text in the tag should be unique, descriptive an accurate.

Add <  name="  "content="..." > to the <head>




section of the page. The content must be human readable, actionable, and rich in keywords.

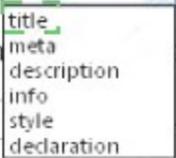
- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Add the <  > tag inside of the <head> section of the page.



The text in the tag should be unique, descriptive an accurate.

Add <  name="  "content="..." > to the <head>




section of the page. The content must be human readable, actionable, and rich in keywords.

**NEW QUESTION 232**

- (Exam Topic 4)

**HOTSPOT**

You are developing an ASP.NET MVC application in Visual Studio 2012. 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 the markup? (To answer, select the appropriate options in the answer area.)

**Answer Area**

Target 1:

- configSource
- uiCulture
- enableClientBasedCulture
- siteMap
- globalization

Target 2:

- configSource
- uiCulture
- enableClientBasedCulture
- siteMap
- globalization

Target 3:

- configSource
- uiCulture
- enableClientBasedCulture
- siteMap
- globalization

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

Target 1:

- configSource
- uiCulture
- enableClientBasedCulture
- siteMap
- globalization

Target 2:

- configSource
- uiCulture
- enableClientBasedCulture
- siteMap
- globalization

Target 3:

- configSource
- uiCulture
- enableClientBasedCulture
- siteMap
- globalization

**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)

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 240**

- (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**

Store secrets on a local development device.

Set staging and production runtime parameters.

Store secrets for production and staging environments.

**Technology**

- 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 243**

- (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.Application = "https://www.adventure-works.com/";
        });
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Code segments

- Audience
- Application
- Authority
- Challenge
- AddJwtBearer
- AddOAuth
- AddCookie

Answer area

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

**NEW QUESTION 246**

- (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.

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

Work Area

```
var response = context.HttpContext.Response;
var request = context.HttpContext.Request;
```

```
if (canProcess)
{
    response.Clear();
```

```
response.WriteFile(context.HttpContext.Server.MapPath(Path));
}
```

Work Area

```
var response = context.HttpContext.Response;
var request = context.HttpContext.Request;
```

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

```
if (canProcess)
```

```
{
    response.Clear();
```

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

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

```
response.WriteFile(context.HttpContext.Server.MapPath(Path));
```

```
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Work Area

```
var response = context.HttpContext.Response;
var request = context.HttpContext.Request;
```

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

```
if (canProcess)
```

```
{
    response.Clear();
```

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

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

```
response.WriteFile(context.HttpContext.Server.MapPath(Path));
```

```
}
```

**NEW QUESTION 248**

- (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 251**

- (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.

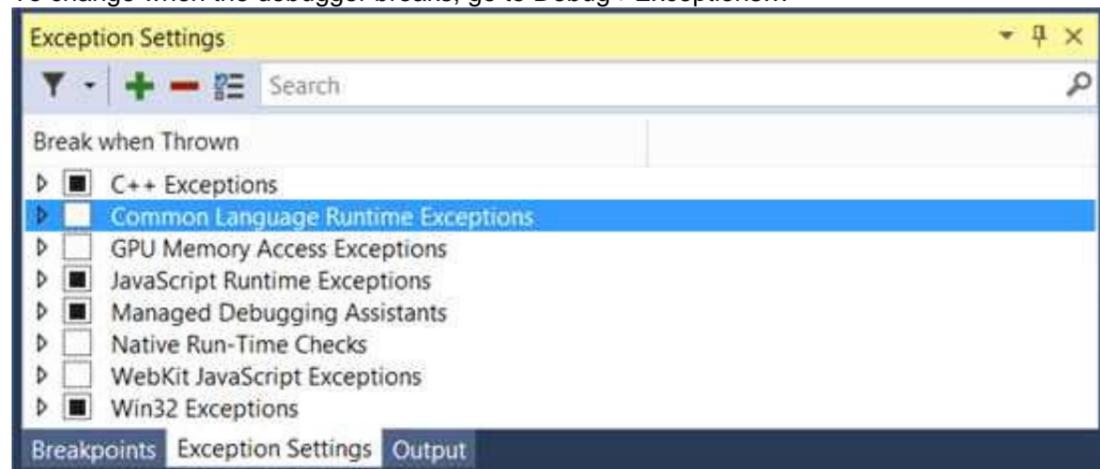
You need to examine the state of the application when exceptions are thrown. What should you do?

- 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 Attach to Process
- D. Select the IIS process.
- E. From the Debug menu in Visual Studio 2012, select Exception
- F. Disable the User-unhandled check box for Common Language Runtime Exceptions.
- G. From the TOOLS menu in Visual Studio 2012, click Customiz
- H. Click the Command tab and select Debug.

**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 252**

- (Exam Topic 4)

DRAG DROP

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

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

The application contains a controller named BankAccountController with two actions.

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

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

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

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

The application must not display AccountNumber in clear text in any URL. You need to build the view for the GetAccounts action. You have the following code:

```
@model IEnumerable<SensitiveData.Models.GamerAccount>
@{SensitiveData.Helpers.CustomEncryptor custEncrypt =
    new SensitiveData.Helpers.CustomEncryptor();}
<h2>GetAccounts</h2>
<table>
    <tr>
        <th>Account Name</th>
        <th>Balance</th>
    </tr>
    @foreach (var item in Model)
    {
        <tr>
            <td>@Html.DisplayFor(modelItem => item.AccountName)</td>
            <td>@Html.DisplayFor(modelItem => item.Highscore)</td>
            <td>
                @Html.ActionLink("Edit", "EditAccount",
                    new {
                        Target 1 =
                        Target 2
                        . Target 3
                    })
            </td>
        </tr>
    }
</table>
```

Which code segments should you include in Target 1, Target 2 and Target 3 to build the view? To answer, drag the appropriate code segment to the correct targets. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

**Code Segments**

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

**Answer Area**

Target 1:

Code Segment

Target 2:

Code Segment

Target 3:

Code Segment

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Target1: maskedAccountNum Target2: custEncrypt  
Target3: Encrypt(item.AccountNumber) SensitiveData.Helpers

**NEW QUESTION 257**

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

▼

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

▼

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

```
public void GetUserInfo()
{
    (email, "Test failed" );
}
}
```

▼

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

- 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 261

- (Exam Topic 4)

You are developing an ASP.NET MVC application to be used on the Internet. The environment uses Active Directory with delegation to access secure resources. 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 Forms authentication
- B. Enable Windows authentication
- C. Generate server SSL certificates and install them in IIS
- D. Enable Digest authentication

**Answer: B**

#### Explanation:

Requirements for Delegation

Delegation relies on Integrated Windows authentication to access resources. There is no limit on the number of computers that you can delegate your account -- you must correctly configure each of them. The Integrated 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://support.microsoft.com/en-us/kb/810572>

#### NEW QUESTION 265

- (Exam Topic 4)

You are developing an ASP.NET MVC application.

The application has a contact view includes a form for editing the displayed contact.

You need to save the Contact object model when the form is posted back to the EditContact method using a POST method request.

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

- A. `public ActionResult EditContact(){var c = newContact(){FirstName = Request.QueryString["FirstName"],LastName = Request.QueryString["LastName"],SaveContact(c);return View(c);}`
- B. `public ActionResult EditContact(Contact c){SaveContact(c);return View(c);}`
- C. `public ActionResult EditContact(FormCollection values){var c = newContact(){FirstName = values["FirstName"],LastName = values["LastName"],SaveContact(c);return View(c);}`
- D. `public ActionResult EditContact(QueryStringProvider values){var c = newContact(){FirstName = values.GetValue["FirstName"],LastName = values.GetValue["LastName"],SaveContact(c);return View(c);}`

**Answer: AB**

#### NEW QUESTION 268

- (Exam Topic 4)

You are developing an ASP.NET Core MVC web application that will be deployed to Microsoft Azure App Services Web App.

Scheduled downtime during deployment of new features is not permitted. You need to ensure that deployments do not result in downtime.

What should you do?

- A. Add additional upgrade domains.
- B. Use deployment slots during deployments.
- C. Convert the Web App to run in a standalone Docker container.
- D. Upgrade to a Premium App Service plan.

**Answer: B**

#### Explanation:

References: <https://blogs.msdn.microsoft.com/mvpawardprogram/2017/05/16/deploy-app-azure-app-service/>

#### NEW QUESTION 273

- (Exam Topic 4)

You develop an ASP.NET MVC application. The application has a controller named PeopleController.cs. The controller has an action method that returns a parent view. The parent view includes the following code. Line numbers are included for the reference only.

```

01 @model PartialView.Models.PersonViewModel
02 @{
03     ViewBag.Title = "People";
04 }
05 <div>
06     <h1>People</h1>
07 </div>
08 <div>
09
10 </div>

```

The application also contains a partial view named People. The parent view must display the partial view. You need to add code at line 09 to display the partial view within the parent view.

Which two code segments will achieve the goal? Each correct answer presents a complete solution.

- A. @{ Html.RenderPartial("People", Model);}
- B. @Html.Partial("People", Model)
- C. @Html.Display("People", Model)
- D. @Html.Raw("People")

**Answer: B**

**Explanation:**

By default, any partial view rendered by calling @Html.Partial("PartialViewName") will get the view model passed to the parent view.

References:

**NEW QUESTION 274**

- (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 279**

- (Exam Topic 4)

You are designing a distributed application.

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

**Answer: AC**

**NEW QUESTION 283**

- (Exam Topic 4)

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

You detect performance issues when the application starts. You need to resolve the performance issues.

What should you do?

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

**Answer: B**

**Explanation:**

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

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

**NEW QUESTION 287**

- (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.

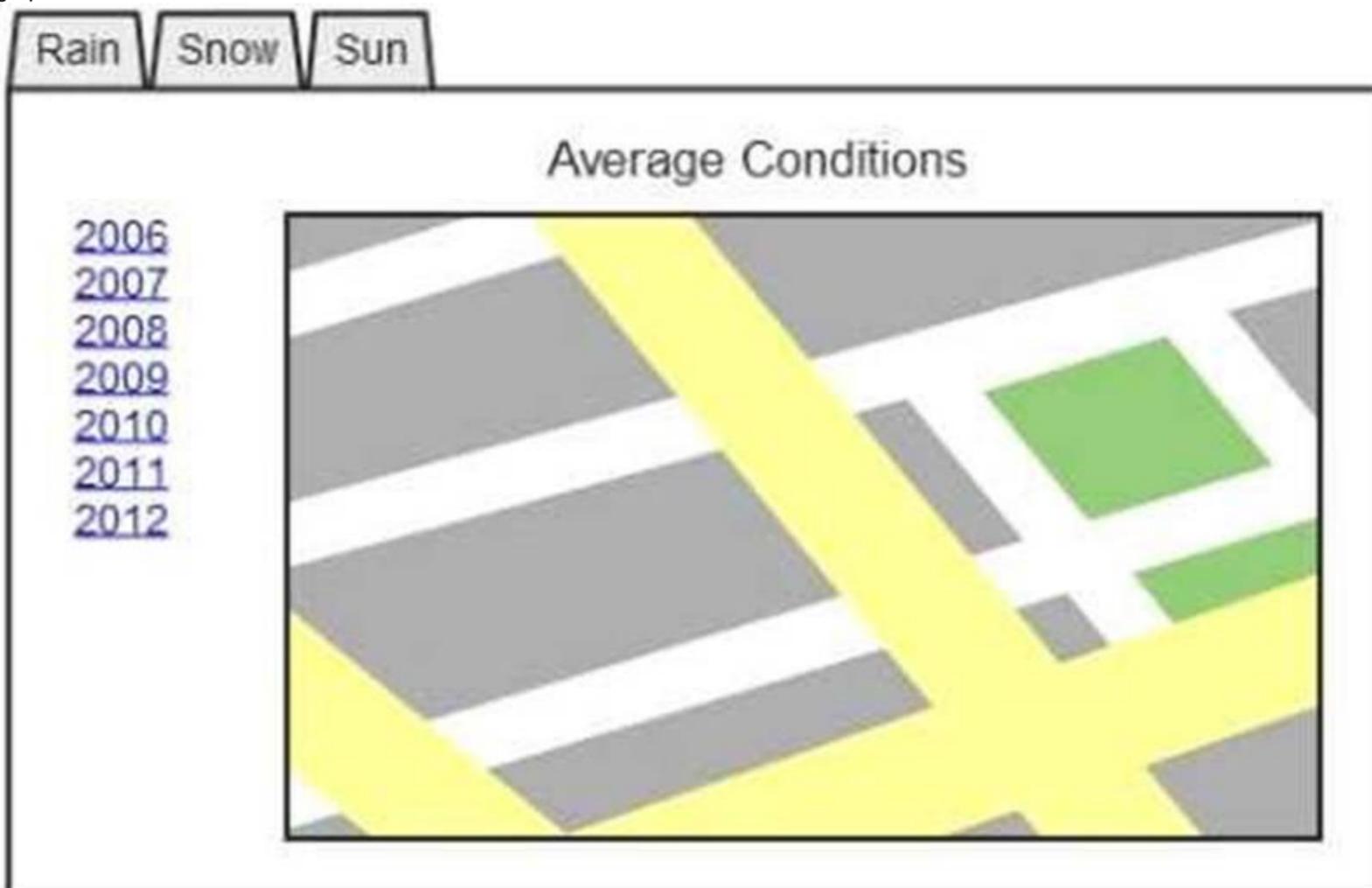
- A. session state
- B. database storage
- C. application state
- D. profile properties

**Answer:** BC

**NEW QUESTION 290**

- (Exam Topic 4)

You are implementing a website redesign of an existing website that provides historical weather condition maps. The current layout resembles the following graphic.



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-changer".

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?

Which code segment should you use?

- A. 

```
$("#year-changer").datepicker({
  numberOfMonths: 6 * 12,
  showButtonPanel: false,
  constrainInput: true,
  stepMonths: 12
});
```
- B. 

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

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

```
$("#year-changer").datepicker({
  yearRange: { 2006:2012 },
  constrainInput: true,
  stepMonths: 12
});
```

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

D. Option D

**Answer:** B

**Explanation:**

jQuery code will bind the slider control to the div.

```
$(document).ready(function(){  
$("#slider").slider();  
});
```

Now, when you run this page then you will see a long slider on page with no range. As we have not specified any range.slider control comes with various options/properties which can be set. Here are few of them.

1. min : Minimum value allowed for the slider.
2. max : Maximum allowed value for the slider.
3. step : How much you want to increment when you slide. Default is 1.
4. value : set default value of the slider. References:

**NEW QUESTION 294**

- (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 web application 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 portal
- 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 295**

- (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 298**

- (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 point.

**Code segments**

- IStartupFilter
- IMiddlewareFacto
- IMiddleware
- IApplicationBuil
- 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
- IApplicationBuil
- IApplicationLife
- IHostingStartup

**Answer area**

```

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

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

```

**NEW QUESTION 302**

- (Exam Topic 4)

You are developing an ASP.NET MVC application.

The application must allow users to enter HTML in a feedback text box only. You need to disable request validation.

What should you do?

- A. Use the HttpRequest.Form property to read the unvalidated form value.
- B. Apply and set the ValidateInput attribute on the controller action to FALSE.
- C. Use the HttpRequest.Unvalidated property to read the unvalidated form value.
- D. Apply and set the CausesValidation attribute on the controller action to FALSE.

**Answer:** C

**Explanation:**

The HttpRequest.Unvalidated Property provides access to HTTP request values without triggering request validation.

**NEW QUESTION 304**

- (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 305**

- (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 309**

- (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 311**

- (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 315**

- (Exam Topic 4)

You develop an ASP.NET MVC application. The application includes a web application configuration file that contains sensitive information.

You need to encrypt the sensitive information. Which tool should you use?

- A. ngen.exe
- B. aspenet\_wp.exe
- C. regasm.exe
- D. xaspol.exe
- E. aspnet\_regis.exe

**Answer: E**

**Explanation:**

You can use the ASP.NET IIS Registration Tool (Aspnet\_regiis.exe) to encrypt or decrypt sections of a Web configuration file. ASP.NET will automatically decrypt encrypted configuration elements when the Web.config file is processed.

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 320**

- (Exam Topic 4)

**HOTSPOT**

You are developing an ASP.NET MVC application that will be hosted on Microsoft Azure. The application includes the StackExchange.Redis client package. A variable named CacheConnectionConfiguration stores the cache endpoint URL and the password to connect to the cache.

The application must store a user's color selection by using the Azure Redis cache. The cached value must expire after 90 minutes. You need to cache the user's color selection.

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

## Answer Area

```
private static void CacheColorSelection(string colorSelection)
{
    var connection = ConnectionMultiplexer.Connect(CacheConnectionConfiguration);
    var cache = connection.Configure();
    var cache = connection.GetStatus();
    var cache = connection.GetDatabase();
    var cache = connection.GetServer(CacheConnectionConfiguration);

    cache.SetString(colorSelection, "color");
    cache.SetString("color", colorSelection);
    cache.SetString("color", colorSelection, TimeSpan.FromMinutes(90));
    cache.SetString("color", colorSelection, TimeSpan.FromSeconds(90));
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

### Explanation:

Box 1: var cache = connection.GetDatabase();

Once the connection is established, return a reference to the redis cache database by calling the ConnectionMultiplexer.GetDatabase method.

Box 2: cache.SetString("color", colorSelection, TimeSpan.FromMinutes(90));

The TimeSpanFromMinutes method returns a TimeSpan that represents a specified number of minutes, where the specification is accurate to the nearest millisecond.

Example: The following code snippet shows how to set an expiration time of 90 minutes on a key.

// Add a key with an expiration time of 90 minutes

```
await cache.SetStringAsync("data:key1", 99, TimeSpan.FromMinutes(90));
```

References: <https://docs.microsoft.com/en-us/azure/redis-cache/cache-dotnet-how-to-use-azure-redis-cache> [https://msdn.microsoft.com/en-us/library/system.timespan.fromminutes\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.timespan.fromminutes(v=vs.110).aspx)

### NEW QUESTION 321

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