



## Microsoft

### Exam Questions 70-486

Developing ASP.NET MVC 4 Web Applications

**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>
--	--

Answer:

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>
--	--

**NEW QUESTION 2**

DRAG DROP

You need to implement security according to the business requirements.

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

[Authorize(Roles = "Admin")]	[Authorize]
[Authorize]	[Authorize(Roles = "Admin")]
[Authorize(Roles = "Admin")]	[AllowAnonymous]
[AllowAnonymous]	[Authorize(Roles = "*")]
[Authorize(Roles = "*")]	

```

public class RunLogController : Controller
{
    public ActionResult GetLog()
    ...

    public ActionResult InsertLog()
    ...

    public ActionResult Deletelog(int id)
    ...

    public ActionResult EditLog(int id)
    ...
}
    
```

Answer:

Explanation:

[Authorize(Roles = "Admin")]	[Authorize]
[Authorize(Roles = "Admin")]	[AllowAnonymous]
[Authorize(Roles = "*")]	[Authorize(Roles = "Admin")]
	[Authorize(Roles = "Admin")]

```

public class RunLogController : Controller
{
    [AllowAnonymous]
    public ActionResult GetLog()
    ...

    [Authorize(Roles = "Admin")]
    public ActionResult Deletelog(int id)

    [Authorize(Roles = "Admin")]
    public ActionResult EditLog(int id)
    ...
}
    
```

**NEW QUESTION 3**

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



Work Area

```
<video width="320" height="240">
```

< [dropdown] >  
 source src="map.mp4" type="video/mp4"  
 source src="map.ogv" type="video/ogg"  
 source src="map.webm" type="video/webm"

< [dropdown] >  
 source src="map.mp4" type="video/mp4"  
 source src="map.ogv" type="video/ogg"  
 source src="map.webm" type="video/webm"

< [dropdown] >  
 source src="map.mp4" type="video/mp4"  
 source src="map.ogv" type="video/ogg"  
 source src="map.webm" type="video/webm"

```
< [dropdown] width="320" height="240">
```

embed  
 object  
 video  
 canvas

```
< [dropdown] name="movie" value="map.swf" />
```

object  
 param  
 option  
 embed

```
< [dropdown] src="map.swf" />
```

video  
 param  
 embed  
 source

```
</ [dropdown] >
```

embed  
 object  
 video  
 canvas

```
</video>
```

Answer:

Explanation:

Work Area

```

<video width="320" height="240">
  <
    source src="map.mp4" type="video/mp4"
    source src="map.ogv" type="video/ogg"
    source src="map.webm" type="video/webm"
  <
  <
    source src="map.mp4" type="video/mp4"
    source src="map.ogv" type="video/ogg"
    source src="map.webm" type="video/webm"
  <
  <
    source src="map.mp4" type="video/mp4"
    source src="map.ogv" type="video/ogg"
    source src="map.webm" type="video/webm"
  <
  < width="320" height="240">
    embed
    object
    video
    canvas
    < name="movie" value="map.swf" />
      object
      param
      option
      embed
    < src="map.swf" />
      video
      param
      embed
      source
  </
  embed
  object
  video
  canvas
</video>
  
```

**NEW QUESTION 5**

DRAG DROP

You need to ensure that only valid parameters are passed to the EditLog action.

How should you build the route? (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.)

```

id = @"\d+"
url: "RunLog/EditLog/{id}",
action = "EditLog",
defaults: new
constraints: new

routes.MapRoute(
    name: "EditLog",
    {
        controller = "RunLog",
    },
    {
    }
);

```

Answer:

Explanation:

```

routes.MapRoute(
    name: "EditLog",
    url: "RunLog/EditLog/{id}",
    defaults: new
    {
        controller = "RunLog",
        action = "EditLog",
    },
    constraints: new
    {
        id = @"\d+"
    }
);

```

**NEW QUESTION 6**

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 7**

You need to add an action to RunLogController to validate the users' passwords. Which code segment should you use?

- A. 

```
public ActionResult Login(string username, string password)
{
    byte[] buffer = Encoding.UTF8.GetBytes(password + username);
    byte[] hash = MD5.Create().ComputeHash(buffer);
    ComparePassword(username, hash);
    return ContextDependentView();
}
```
- B. 

```
[RequireHttps]
public ActionResult Login(string username, string password)
{
    byte[] buffer = Encoding.UTF8.GetBytes(password + username);
    byte[] hash = SHA1.Create().ComputeHash(buffer);
    ComparePassword(username, hash);
    return ContextDependentView();
}
```
- C. 

```
public ActionResult Login(string username, string password)
{
    byte[] buffer = Encoding.UTF8.GetBytes(password + username);
    byte[] hash = SHA1.Create().ComputeHash(buffer);
    ComparePassword(username, hash);
    return ContextDependentView();
}
```
- D. 

```
[RequireHttps]
public ActionResult Login(string username, string password)
{
    byte[] buffer = Encoding.UTF8.GetBytes(password + username);
    byte[] hash = MD5.Create().ComputeHash(buffer);
    ComparePassword(username, hash);
    return ContextDependentView();
}
```

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

**Answer: B**

#### NEW QUESTION 8

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

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

**Answer: D**

#### NEW QUESTION 9

You need to display the "miles" unit description after the distance in the GetLog view.

Which line of code should you use to replace line GL21? (Each correct answer presents a complete solution. Choose all that apply.)

- A. `@log.Distance miles`  
 B. `@Html.DisplayFor(model => log.Distance) miles`  
 C. `@log.Distance.ToString() @Html.TextArea("miles")`  
 D. `@Html.DisplayFor(model => log.Distance.ToString()) + " miles"`

**Answer: AB**

#### NEW QUESTION 10

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 10

You are designing a Windows Communication Foundation (WCF) service that uses the Product class. You need to update the class to meet the storage requirement.

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

- A. Mark the Product class with the DataContract attribute.
- B. Mark the public members of the Product class with the DataContractFormat attribute.
- C. Mark the Product class with the CollectionDataContract attribute.
- D. Mark the public members of the Product class with the DataMember attribute.

**Answer:** AD

**Explanation:** So as of .NET 3.5 SP1, you don't have to add data contract or data member attributes anymore - if you don't then the data contract serializer will serialize all public properties on your class, just like the XML serializer would.

-without [DataMember], you cannot define an order of serialization (Order=) and the DCS will serialize all properties alphabetically

-without [DataMember], you cannot define a different name for your property (Name=) without [DataMember], you cannot define things like IsRequired= or other useful attributes

-without [DataMember], you cannot leave out certain public properties - all public properties will be serialized by the DCS

#### NEW QUESTION 14

You need to implement the requirements for handling IIS errors. What should you do?

- A. Update the **customErrors** attribute in the web.config file as follows.

```
<customErrorsmode="On"defaultRedirect="CustomErrorView">  
<errorstatusCode="404"redirect="Error/Error404"/>  
</customErrors>
```

- B. Update the **customErrors** attribute in the app.config file as follows.

```
<customErrorsmode="Off"defaultRedirect="CustomErrorView">  
<errorstatusCode="404"redirect="Error/Error404"/>  
</customErrors>
```

- C. Update the **customErrors** attribute in the app.config file as follows.

```
<customErrorsmode="On"defaultRedirect="CustomErrorView">  
<errorstatusCode="401"redirect="Error/Error401"/>  
</customErrors>
```

- D. Update the **customErrors** attribute in the web.config file as follows.

```
<customErrorsmode="On"defaultRedirect="CustomErrorView">  
<errorstatusCode="403"redirect="Error/Error403"/>  
</customErrors>
```

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

Answer: A

#### NEW QUESTION 19

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

- A. `protected override void OnException(ExceptionContext filterContext)`
- ```
{
    Utility.WriteLog(filterContext.Exception);

    if (filterContext.HttpContext.IsCustomErrorEnabled)
    {
        filterContext.ExceptionHandled = true;
        this.View("Error").ExecuteResult(this.ControllerContext);
    }
}
```
- B. `protected override void OnException(ExceptionContext filterContext)`
- ```
{
    Utility.WriteLog(filterContext.Exception);

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

    if (filterContext.HttpContext.IsDebuggingEnabled)
    {
        filterContext.ExceptionHandled = true;
        this.View("Error").ExecuteResult(this.ControllerContext);
    }
}
```

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

Answer: A

#### NEW QUESTION 20

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 21

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

- A. Add a class named Customer-Controller to the Controllers folde  
 B. Then add a method named Edit to the class.  
 C. Create a new controller named Administration in the Controllers folde  
 D. Add an action named EditCustomer to the controller.  
 E. Add a folder named Customer to the Views folde  
 F. Then create a view inside this folder named Edit.aspx.  
 G. Create a new folder named EditCustomer to the Views folde  
 H. In the new folder, create a new file named Administration.aspx.

**Answer:** AB

#### NEW QUESTION 25

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 26

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. `$("#body h1:nth-child(1)").fadeIn(1000);`  
 B. `$("#body h1:nth-child(1)").fadeOut(1000);`  
 C. `$("#body h2:nth-child(1)").animate({ opacity: 0 });`  
 D. `$("#body h1:nth-child(1)").animate({ opacity: 1 });`

**Answer: BC**

#### NEW QUESTION 29

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

**Answer: AD**

#### NEW QUESTION 32

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

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

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

**Answer:** AC

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

### NEW QUESTION 33

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 36

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").fadeIn(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 38

You need to configure session storage in the web.config file to meet the technical requirements for scalability.  
Which SessionState mode should you use? (Each correct answer presents a complete solution. Choose all that apply.)

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

**Answer:** AD

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

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

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

### NEW QUESTION 40

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 42

##### 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 = [dropdown];
    var normalFormat = [dropdown];
    if (httpContext.[dropdown].ContentType == [dropdown])
    {
        if (httpContext.[dropdown].[dropdown])
        {
            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);
    }
}
```

Answer:

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 44

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

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

Answer: D

#### NEW QUESTION 46

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 51

You are creating a new authentication system that uses an HTTP header value. The existing authentication system must continue to operate normally. You need to implement the custom authentication.

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

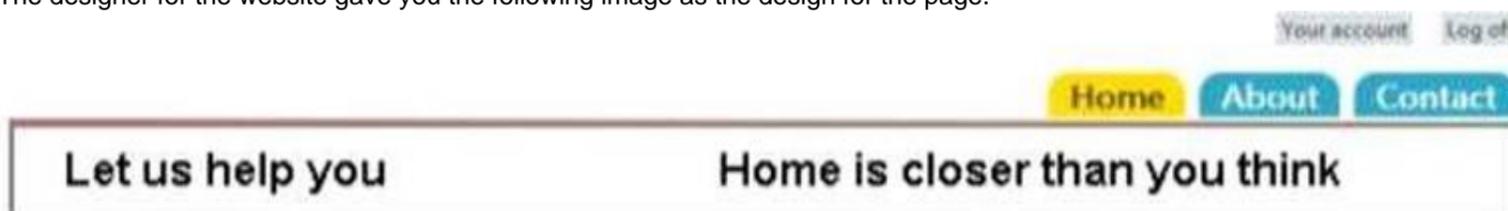
- A. Create a class derived from ActionResult and check for a valid HTTP header value in the ExecuteResult method.
- B. Change all actions to return this new class.
- C. Create an HttpHandler to check for a valid HTTP header value in the ProcessRequest method.
- D. Create an HttpModule and check for a valid HTTP header value in the AuthenticateRequest event.
- E. Create a class derived from AuthorizeAttribute and check for a valid HTTP header value in the AuthorizeCore method.
- F. Change usages of the existing AuthorizeAttribute to use the new class.

Answer: CD

#### NEW QUESTION 55

##### 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;
```

```
}
```

Answer:

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 57**

You need to maximize performance of video delivery.

Which code segment should you use as the body of the GetVideoStream function in the Video-Controller class?

- A. 

```
MemoryStream stream = new MemoryStream();

new GZipStream(System.IO.File.OpenRead(videoId), CompressionMode.Compress).CopyTo(
stream);

return stream;
```
- B. 

```
if (Request.ContentEncoding.BodyName == "application/x-gzip")
{
    return new GZipStream(System.IO.File.OpenRead(videoId), CompressionMode.Compress);
}

return System.IO.File.OpenRead(videoId);
```
- C. 

```
return new GZipStream(System.IO.File.OpenRead(videoId), CompressionMode.Compress);
```
- D. 

```
if (Request.Headers["Accept-Encoding"].Contains("gzip"))
{
    return new GZipStream(System.IO.File.OpenRead(videoId), CompressionMode.Compress);
}

return System.IO.File.OpenRead(videoId);
```

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

Answer: D

#### NEW QUESTION 60

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 63**

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.)

Answer:

Explanation:



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

**NEW QUESTION 68**

You need to ensure that all customers can delete videos regardless of their browser capability. Which code segment should you use as the body of the SendAsync method in the DeleteHandler class?

- A. 

```
var response = base.SendAsync(request, cancellationToken);  
if (request.Headers.Contains("X-Delete"))  
{  
    response.Result.StatusCode = HttpStatusCode.NotImplemented;  
}  
return response;
```
- B. 

```
if (request.Headers.Contains("X-Delete"))  
{  
    request.Method = new HttpMethod("DELETE");  
}  
return base.SendAsync(request, cancellationToken);
```
- C. 

```
var response = base.SendAsync(request, cancellationToken);  
if (response.Result.Headers.Contains("X-Delete"))  
{  
    request.Method = new HttpMethod("DELETE");  
}  
return response;
```
- D. 

```
if (request.Method == HttpMethod.Delete)  
{  
    request.Headers.Add("X-Delete", "true");  
}  
return base.SendAsync(request, cancellationToken);
```

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

Answer: B

#### NEW QUESTION 70

DRAG DROP

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

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

Which markup segments should you include in Target 1, Target 2, Target 3, Target 4 and Target 5 to implement the startup task? To answer, drag the appropriate markup segments to the correct targets. Each markup segments may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Markup Segments	Answer Area
Variable	Target 1: Markup Segment
Environment	Target 2: Markup Segment
foreground	Target 3: Markup Segment
background	Target 4: Markup Segment
simple	Target 5: Markup Segment

**Answer:**

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

**NEW QUESTION 75**

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

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

**Answer:** A

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

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

Detailed steps.

1. In Visual Studio, go to the solution which is being developed.
2. Right click the Web Project -> Configure Remote Desktop -> click on View to see Certificate details (Since I don't have a custom certificate I will use one create by Windows Azure Tools itself)
3. Go to Details tab on Certificate -> Click Copy to file.. -> Next -> Select 'Yes, export the private key' -> Next -> Continue with default setting and create a password when asked (please refer below screenshots)
4. These steps will generate a .PFX file for this certificate. Now we need to upload this certificate to the portal (for the respective cloud service)
5. Go to the Azure Management Portal -> Go to the Cloud Service in question -> Certificates Tab -> Upload the newly created certificate (.PFX file)

Note:

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

\* Microsoft Azure uses certificates in three ways:

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

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

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

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

to- windows-azure-roles.aspx

**NEW QUESTION 78**

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

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

**A**

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

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

**B**

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

return controller;
```

**C**

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

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

**D**

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

return controller;
```

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

**Answer: D****Explanation:** The MemberInfo.CustomAttributes property gets a collection that contains this member's custom attributes.

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

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

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

Incorrect:

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

Case Study: 4, Mixed Questions

**NEW QUESTION 80**

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?

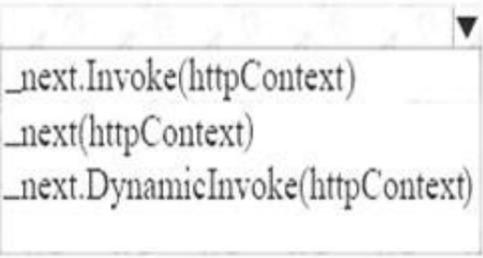
- A. px
- B. em
- C. rem
- D. vh

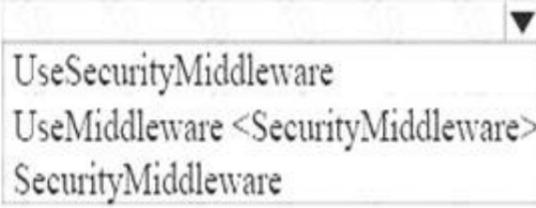
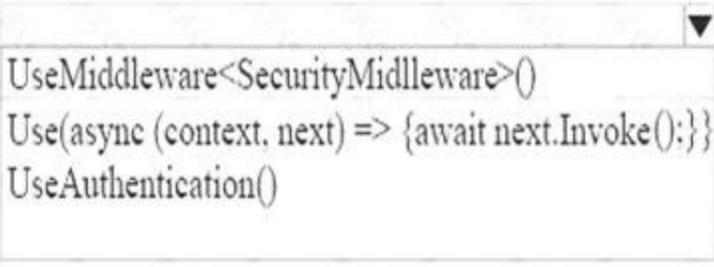
Answer: C

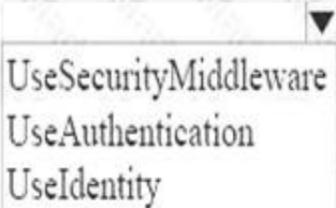
**NEW QUESTION 85**

You are developing an ASP.NET Core MVC web application that uses custom security middleware. The middleware will add a response header to stop pages from loading when reflected cross-site scripting (XSS) attacks are detected.  
 The security middleware component must be constructed once per application lifetime. You need to implement the middleware.  
 How should you complete the code? To answer, select the appropriate options in the answer area. NOTE: Each correct selection is worth one point.

**Answer Area**

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

public static class SecurityMiddlewareExtensions
{
    public static IApplicationBuilder  (this IApplicationBuilder builder)
    {
        return builder.
            
    }
}

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

**Answer:**

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

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

Box 2: UseSecurityMiddleware

Box 3: UseMiddleware<SecurityMiddleware>() Example:

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

Box 4: UseSecurityMiddleware

The Extensions part is optional, but it does allow you to write code like this :

```
public void Configure(IApplicationBuilder app, IHostingEnvironment env, ILoggerFactory loggerFactory)
{
    app.UseMiddleware<SecurityMiddleware>(); //If I didn't have the extension method app.UseSecurityMiddleware(); //Nifty encapsulation with the extension
}
```

**NEW QUESTION 88**

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.I 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.

**Answer:**

**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 92**

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, [Code segment] )
  {
    Console.WriteLine("FirstChanceException raised in {0}: {1}",
      [Code segment], .CurrentDomain, [Code segment],
      e.Exception.Message);
  }
  static void Main()
  {
    [Code segment] .CurrentDomain. [Code segment]
    = Handler;
  }
}

```

**Answer:**

**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 93

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 94

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

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

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

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

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

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

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

Does the solution meet the goal?

- A. Yes

B. No

**Answer:** B

**NEW QUESTION 97**

You are developing an ASP.NET MVC application in Visual Studio 2012. The application supports multiple cultures. The application contains three resource files in the Resources directory:

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

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

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

The application contains a controller with the action defined in the following code segment. (Line numbers are included for reference only.)

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

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

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

**Answer:** C

**Explanation:** Only the Resources class is used.

**NEW QUESTION 101**

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 105**

DRAG DROP

You are developing an ASP.NET MVC application in Visual Studio 2012. The application processes data for a bakery and contains a controller named BagelController.es that has several actions. The GetBagel action is defined in the following code segment.

```
public ActionResult GetBagel(string bagelName)
{
    ...
}
```

The GetBagel action is the only action that should be accessed via a URL pattern. Routes to the other actions in the controller must be suppressed.

The default route must map to HomeController and the Index action. You need to build the routes.

Which three code segments should you use 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
<pre> routes.MapRoute(     name: "Bagels",     url: "Bagel/GetBagel/{bagelName}",      defaults: new { controller = "Bagel", action = " GetBagel" });  routes.IgnoreRoute("Bagel/{*}");  routes.IgnoreRoute("Bagel/{*pathInfo}");  routes.MapRoute(     name: "Default", url: "{controller}/{action}/ {id}",      defaults: new { controller = "Home", action = "I ndex", id = UrlParameter.Optional });  routes.MapHttpRoute(     name: "Bagels",     routeTemplate: "Bagel/GetBagel/{bagelName}",      defaults: new { controller = "Bagel", action = " GetBagel" }); </pre>	

Answer:

Explanation:

Actions	Answer Area
<pre> routes.MapRoute(     name: "Bagels",     url: "Bagel/GetBagel/{bagelName}",      defaults: new { controller = "Bagel", action = " GetBagel" });  routes.IgnoreRoute("Bagel/{*}");  routes.IgnoreRoute("Bagel/{*pathInfo}");  routes.MapRoute(     name: "Default", url: "{controller}/{action}/ {id}",      defaults: new { controller = "Home", action = "I ndex", id = UrlParameter.Optional });  routes.MapHttpRoute(     name: "Bagels",     routeTemplate: "Bagel/GetBagel/{bagelName}",      defaults: new { controller = "Bagel", action = " GetBagel" }); </pre>	<pre> routes.MapRoute(     name: "Bagels",     url: "Bagel/GetBagel/{bagelName}",      defaults: new { controller = "Bagel", action = " GetBagel" });  routes.IgnoreRoute("Bagel/{*pathInfo}");  routes.MapRoute(     name: "Default", url: "{controller}/{action}/ {id}",      defaults: new { controller = "Home", action = "I ndex", id = UrlParameter.Optional }); </pre>

#### NEW QUESTION 108

You are developing an ASP.NET MVC application that uses forms authentication. The user database contains a user named LibraryAdmin. You have the following requirements:

- You must allow all users to access the GetBook method.
- You must restrict access to the EditBook method to the user named LibraryAdmin.

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]`

```
public class LibraryController : Controller
{
    [AllowAnonymous]
    public ActionResult GetBook()
    {
        ...
        return View();
    }
    [Authorize(Users = "LibraryAdmin")]
    public ActionResult EditBook()
    {
        ...
        return View();
    }
}
```

B. `[Authorize(Roles = "Anonymous")]`

```
public class LibraryController : Controller
{
    public ActionResult GetBook()
    {
        ...
        return View();
    }

    [Authorize(Users = "LibraryAdmin")]
    public ActionResult EditBook()
    {
        ...
        return View();
    }
}
```

```

C. [Authorize]
public class LibraryController : Controller
{
    [AllowAnonymous]
    public ActionResult GetBook()
    {
        ...
        return View();
    }

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

```

```

D. [Authorize]
public class LibraryController : Controller
{
    [Authorize(Roles="Anonymous")]
    public ActionResult GetBook()
    {
        ...
        return View();
    }

    [Authorize(Users = "LibraryAdmin")]
    public ActionResult EditBook()
    {
        ...
        return View();
    }
}

```

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

**Answer:** AC

#### NEW QUESTION 109

You are developing an ASP.NET MVC application.

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

Which Visual Studio Unit Test project templates should you use? To answer, drag the appropriate Unit Test project template to the correct test goal or test goals. Each project template may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

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

**Answer:**

**Explanation:** Box 1: Coded UI Test Project

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

Box 2: Unit Test Project

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

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

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

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

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

#### NEW QUESTION 114

You are developing an ASP.NET MVC application.

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

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

**Answer:** B

**Explanation:** References:

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

#### NEW QUESTION 116

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 118

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

**Answer:**

**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 120

You are developing an ASP.NET application.

You need to minimize the amount of data in all HTTP responses. What should you do?

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

**Answer:** B

**Explanation:** Network bandwidth is a limited resource. Reducing the size of the response usually increases the responsiveness of an app, often dramatically. One way to reduce payload sizes is to compress an app's responses. Use server-based response compression technologies in IIS, Apache, or Nginx.

References:

<https://docs.microsoft.com/en-us/aspnet/core/performance/response-compression?tabs=aspnetcore2x>

#### NEW QUESTION 121

The application includes the following method. (Line numbers are included for reference only.)

```

01 public static void
RegisterGlobalFilters(GlobalFilterCollection filters)
02 {
03     filters.Add(new HandleErrorAttribute
04     {
05
06     });
07 }
```

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 line of code should you insert at line 05?

- A. `ExceptionType = typeof(IndexOutOfRangeException), View = 'CustomException'`
- B. `ExceptionType = typeof(NullReferenceException), View = 'CustomException'`
- C. `ExceptionType = typeof(IndexOutOfRangeException), Handler = 'CustomException'`
- D. `ExceptionType = typeof(NullReferenceException), Handler = 'CustomException'`

- A. Option A
- B. Option B

- C. Option C
- D. Option D

**Answer:** B

**NEW QUESTION 122**

You are developing an ASP.NET Core MVC web application.  
 You write a Gulp task to automatically minify and upload JavaScript CSS, and image files to Microsoft Azure CDN.  
 You need to ensure that the minification and upload tasks run automatically after every build in Microsoft Visual Studio Professional.  
 Which tool should you use?

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

**Answer:** E

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

**NEW QUESTION 123**

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

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

**Answer:** A

**Explanation:** Exception filters are used to apply global policies to unhandled exceptions in the MVC app. Exception Filters implement either the IExceptionFilter or IAsyncExceptionFilter interface.  
 Exception filters handle unhandled exceptions, including those that occur during controller creation and model binding. They are only called when an exception occurs in the pipeline.

**NEW QUESTION 127**

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.	

**Answer:**

**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-acs-to-p>

### NEW QUESTION 129

You are developing an ASP.NET MVC application that processes payments for an online retailer The retailer provides a .NET assembly that contains a class named RetailEventSource That derives from the EventSource class.

The RetailEventSource class has a method named SuspiciousTransaction that returns True when the order originates from a system that differs significantly from the system that usually performs orders. The RetailEventSource class also has a field named PaymentProcessed that stores the event identifier for a payment-processed event.

Events must be written only when the event source is in a state where writing events is valid You need to create a derived type that contains the method to raise a PaymentProcessed event

#### Code segments

```
Equals(this)
SuspiciousTransaction()
IsEnabled()
Guid
Name
```

#### Answer Area

```
public class PaymentEvents : RetailEventSource
{
    public void LogPayment(string data)
    {
        if (
            Code segment &&
            Code segment != null)
        {
            WriteEvent(PaymentProcessed, FormattedData(data));
        }
    }
}
```

Answer:

Explanation:

#### Code segments

```
Equals(this)
SuspiciousTransaction()
IsEnabled()
Guid
Name
```

#### Answer Area

```
public class PaymentEvents : RetailEventSource
{
    public void LogPayment(string data)
    {
        if (
            IsEnabled() &&
            Name != null)
        {
            WriteEvent(PaymentProcessed, FormattedData(data));
        }
    }
}
```

### NEW QUESTION 131

DRAG DROP

You are developing an ASP.NET MVC application in a web farm. The application has a page that accepts a customer's order, processes it, and then redirects the browser to a page where the order is displayed along with the shipping information.

The order information should be available only to the page where the order is displayed. You need to store state and configure the application.

What should you do? To answer, drag the appropriate item to the correct location. 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.

### Items

- TempData
- ViewData
- InProc
- SqlServer

### Answer area

Store state in  and set the mode attribute of the sessionState element in the web.config file to

**Answer:**

**Explanation:** Target 1: InProc  
 Target 2: ViewData

\* InProc mode, which stores session state in memory on the Web server. This is the default. References:

**NEW QUESTION 133**

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 138**

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

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

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

Answer:

Explanation:

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

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

#### NEW QUESTION 140

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 145

You manage an application that has a custom API. Your company purchases another company. Employees from the purchased company use their own Microsoft

Azure Active Directory (Azure AD).

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

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

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

NOTE: Each correct selection is worth one point.

## Answer Area

Requirement	Capability
Provide authentication for API management.	<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: right;">▼</p> <p>Azure virtual networks</p> <p>Groups</p> <p>Ipssec VPN</p> </div>
Configure the gateway.	<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: right;">▼</p> <p>Transforms</p> <p>Operations</p> <p>Policies</p> </div>
Integrate metrics into one dashboard.	<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: right;">▼</p> <p>Application Insights</p> <p>Azure Monitor</p> <p>Log analytics</p> <p>Stream Analytics</p> </div>
Add restrictions for all users.	<div style="border: 1px solid gray; padding: 5px;"> <p style="text-align: right;">▼</p> <p>Active Directory Domain Services (AD DS)</p> <p>Azure Key Vault</p> <p>Role-Based Access Control (RBAC)</p> </div>

### Answer:

#### Explanation: Box 1: Groups

Add an external Azure AD group

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

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

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

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

Box 3: Application Insights

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

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

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

References:

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

### NEW QUESTION 146

#### DRAG DROP

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

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

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

Code segments	Answer Area
<code>.WebExtendedBase + 30</code>	<pre> public ActionResult myResult() {     var code = WebEventCodes <span style="border: 1px dashed gray; padding: 2px;">Code segment</span>     var outage = new PaymentProcessorOutage(this, code);     outage <span style="border: 1px dashed gray; padding: 2px;">Code segment</span>     return Content("done"); } </pre>
<code>.ApplicationCodeBase + 30;</code>	
<code>.ApplicationDetailCodeBase + 30;</code>	
<code>.FormatCustomEventDetails(null);</code>	
<code>.Raise();</code>	
<code>.Concat();</code>	

**Answer:**

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

**NEW QUESTION 150**

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

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

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

**Answer:** B

**NEW QUESTION 152**

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 153

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

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

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

You need to handle the proprietary data format.

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

- A. Yes
- B. No

**Answer:** A

### NEW QUESTION 154

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

- ClaimNames
- ClaimTypes
- IIdentityClaims
- IClaimsIdentity
- ClaimType
- ClaimName

### Answer area

- Target 1: Code Segment
- Target 2: Code Segment
- Target 3: Code Segment
- Target 4: Code Segment

### Answer:

**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 159

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 162

You are developing an ASP.NET application that runs on Windows Server 2012. An exception is preventing a page from rendering.

You need to view the trace information for the page.

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

- A. Add the following markup segment to the web.config file: `<trace mostRecent= "true/">`  
 B. Load the trace.axd page from the root of the website.  
 C. Add the traceEnable element to the Internet Information Service (IIS) Metabase section for the application.  
 D. Add the following markup segment to the web.config file: `<trace enabled= "true/">`

**Answer:** BD

**Explanation:** D: You can control whether tracing is enabled or disabled for individual pages. If tracing is enabled, when the page is requested, ASP.NET appends to the page a series of tables containing execution details about the page request. Tracing is disabled by default.

To enable tracing for a page

You can also configure tracing in the Web.config file by setting the enabled, localOnly, and pageOutput attributes of the trace Element (ASP.NET Settings Schema)

B: To view trace details for a specific request Navigate to Trace.axd in the root of your application.

For

example, if the URL for your application is `http://localhost/SampleApplication`, navigate to `http://localhost/SampleApplication/trace.axd` to view the trace information for that application.

Select the View Details link for the request that you want to investigate. References:

<https://msdn.microsoft.com/en-us/library/94c55d08.aspx> <https://msdn.microsoft.com/en-us/library/wwh16c6c.aspx>

#### NEW QUESTION 166

You define a startup task in the ServiceDefinition.csdef file. The task consists of a batch file that runs a Windows PowerShell script. The script places configuration files in local storage for use in a worker role. The worker role needs this information before starting.

The worker role does not start after the startup task runs. You need to ensure that the worker role starts. What should you do?

- A. Use environment variables based on members of the RoleEnvironment class instead of static environment variables.
- B. Configure the task to use the directory specified by the TEMP environment variable.
- C. Ensure the task completes with an errorlevel of 0.
- D. Change the task from simple to foreground.

**Answer: C**

**Explanation:** Startup tasks must end with an errorlevel (or exit code) of zero for the startup process to complete. If a startup task ends with a non-zero errorlevel, the role will not start.

Note: Startup tasks are actions that are taken before your roles begin and are defined in the ServiceDefinition.csdef file by using the Task element within the Startup element. Frequently startup tasks are batch files, but they can also be console applications, or batch files that start PowerShell scripts.

#### NEW QUESTION 169

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 173

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

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

You need to select a cache solution.

Which caching solution should you choose?

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

**Answer: C**

#### NEW QUESTION 177

You develop an ASP.NET MVC application that displays Information about products that a company sells. The application contains two classes named ProductController and RouteConfig

You have the following requirements:

- If a value is provided for the Id property, you must display information about an individual product.
- If no value is provided for the Id property, you must display information about all products. You need to configure routing.

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

```

public class RouteConfig
{
    public static void RegisterRoutes(RouteCollection routes)
    {
        routes.IgnoreRoute("{resource}.axd/{*pathInfo}");

        routes.MapMvcAttributeRoutes();
        routes.MapRoute("product", "products");
        routes.Add(new Route("Products", new PageRouteHandler("Products")));
        routes.MapPageRoute("products", "products", "ProductController.cs", true);
    }
}

[RoutePrefix("products")]
public class ProductController : Controller
{
    [Route]
    public ActionResult Index()
    {
        return View();
    }

    [Route]
    [Route("{id}")]
    [Route("{id?}")]
    [Route("products")]
    public ActionResult Id()
    {
        return View("Products", ProductModel.GetProducts());
    }
}

```

**Answer:**

**Explanation:**

```

public class RouteConfig
{
    public static void RegisterRoutes(RouteCollection routes)
    {
        routes.IgnoreRoute("{resource}.axd/{*pathInfo}");

        routes.MapMvcAttributeRoutes();
        routes.MapRoute("product", "products");
        routes.Add(new Route("Products", new PageRouteHandler("Products")));
        routes.MapPageRoute("products", "products", "ProductController.cs", true);
    }
}

[RoutePrefix("products")]
public class ProductController : Controller
{
    [Route]
    public ActionResult Index()
    {
        return View();
    }

    [Route]
    [Route("{id}")]
    [Route("{id?}")]
    [Route("products")]
    public ActionResult Id()
    {
        return View("Products", ProductModel.GetProducts());
    }
}

```

**NEW QUESTION 182**

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, ab12x-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 184**

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 185

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 189

##### 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

**Answer:**

**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 192**

You are developing an ASP.NET Core web application in Microsoft Visual Studio. The project uses a file named package.json in reusable packages. You must automate the build process to use a script minification strategy. Script minification must happen in parallel. You need to ensure you can share and distribute packages and run the minification strategy.

Which tools should you use? To answer, drag the appropriate tools to the correct scenarios. Each tool may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

**Tools**

- Bower
- NuGet
- Gulp
- Node package manager

**Answer area**

**Scenario**

- Execute processes in parallel.
- Distribute packages.

**Tool**

- Tool
- Tool

**Answer:**

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

**NEW QUESTION 195**

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"/>

**Answer:**

**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 197**

DRAG DROP

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

- `_Layout.WP7.cshtml`
- `Index.WP7.cshtml`

You need to update the application so that it renders the customized files correctly to Windows Phone 7 users. How should you update the `Application_Start` method? (To answer, drag the appropriate line of code to the correct location or locations. Each line of code may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)



**Answer:**

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

**NEW QUESTION 202**

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 206**

You are authoring unit tests.

The unit tests must test code that consumes sealed classes.

You need to create, maintain, and inject dependencies in the unit tests. Which isolation method should you use?

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

**Answer:** C

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

References:

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

**NEW QUESTION 208**

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	<pre> public class NoiseReducer : <span style="border: 1px solid black; padding: 2px;">code segment</span> {     private readonly ITelemetryProcessor Next;     public NoiseReducer(ITelemetryProcessor next)     {         Next = next;     }     public void Process(ITelemetry item)     {         var request = item as <span style="border: 1px solid black; padding: 2px;">code segment</span>          if (request == null    !request.Url.AbsolutePath.EndsWith("status" ))         {             Next.Process(item);         }     } } </pre>
ITelemetry	
TelemetryContext	
ITelemetryChannel	
RequestTelemetry	

**Answer:**

**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 212**

You are developing a controller for an ASP.NET MVC application that manages blog 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(true)]`  
`public class BlogController : Controller`  
`{`  
`public ActionResult SavePosting(BlogPosting bp)`  
`{`  
`SaveBlogPosting(bp);`  
`return View("ManagePosting");`  
`}`  
`}`
- B. `public class BlogController : Controller`  
`{`  
`[ValidateInput(true)]`  
`public ActionResult SavePosting(BlogPosting bp)`  
`{`  
`SaveBlogPosting(bp);`  
`return View("ManagePosting");`  
`}`  
`}`
- C. `public class BlogController : Controller`  
`{`  
`[ValidateInput(false)]`  
`public ActionResult SavePosting(BlogPosting bp)`  
`{`  
`SaveBlogPosting(bp);`  
`return View("ManagePosting");`  
`}`  
`}`
- D. `[ValidateInput(false)]`  
`public class BlogController : Controller`  
`{`  
`public ActionResult SavePosting(BlogPosting bp)`  
`{`  
`SaveBlogPosting(bp);`  
`return View("ManagePosting");`  
`}`  
`}`

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

**Answer:** C

**Explanation:** Example: ValidateInput at Action Method Level

The user can submit Html for this action method successfully with the following code. `public class HomeController : Controller`  
`{`  
`public ActionResult AddArticle()`  
`{`  
`return View();`  
`}`  
`}`

```

}
[ValidateInput(false)] [HttpPost]
public ActionResult AddArticle(BlogModel blog)
{
    if (ModelState.IsValid)
    {
    }
}
return View();
}
}

```

References:

<http://www.dotnettricks.com/learn/mvc/html-submission-by-validateinput-and-allowhtml-attribute-in-mvc4>

#### NEW QUESTION 216

You develop an ASP.NET MVC application. The application has several Razor views. The application must execute different server-side code for desktop and mobile devices. You need to choose an approach to support mobile devices.

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

- A. Use different controllers and view for both desktop and mobile browsers, but render the views using Bootstrap framework.
- B. Create separate areas for desktop and mobile browsers, implementing independent controllers and views for each.
- C. Use the same controllers for both desktop and mobile browsers, but render different views depending on the device type.
- D. Use different controllers and views for both desktop and mobile browsers, but render the views with the same Razor layout depending on the device type.

**Answer:** AC

**Explanation:** How ASP.NET MVC applications can present mobile-specific pages

Since the Model-View-Controller pattern decouples application logic (in controllers) from presentation logic (in views), you can choose from any of the following approaches to handling mobile support in server-side code:

References:

<https://docs.microsoft.com/en-us/aspnet/whitepapers/add-mobile-pages-to-your-aspnet-web-forms-mvc-applicat>

#### NEW QUESTION 217

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 219

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: Use standard HttpModule and HttpHandler types. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**Explanation:** Note: Open Web Interface for .NET (OWIN) defines an abstraction between .NET web servers and web applications. OWIN decouples the web application from the server, which makes OWIN ideal for self-hosting a web application in your own process, outside of IIS—for example, inside an Azure worker role.

#### NEW QUESTION 220

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 221**

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 string AccountName { get; set; }

public double Balance { get; set; }

}
```

The application must not display AccountNumber in clear text in any URL. You need to build the view for the GetAccounts action. How should you build the view? (To answer, drag the appropriate code segment to the correct location or locations. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

custEncrypt

maskedAccountNum

Html

Encrypt(item.AccountNumber)

Encode(item.AccountNumber)

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

Answer:

Explanation:

```

@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 223**

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

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

What should you do?

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

**Answer: C**

**NEW QUESTION 228**

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.

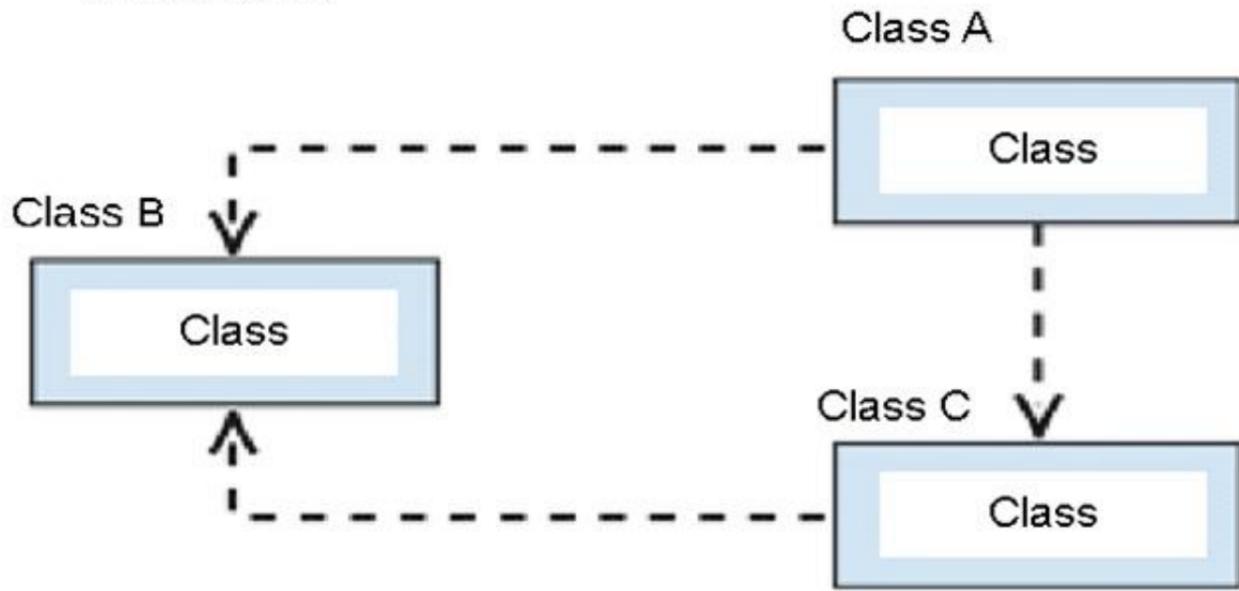
What should you do? To answer, drag the appropriate class to the correct location or locations. Each class name may be used once, more than once, or not at all.

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

Classes

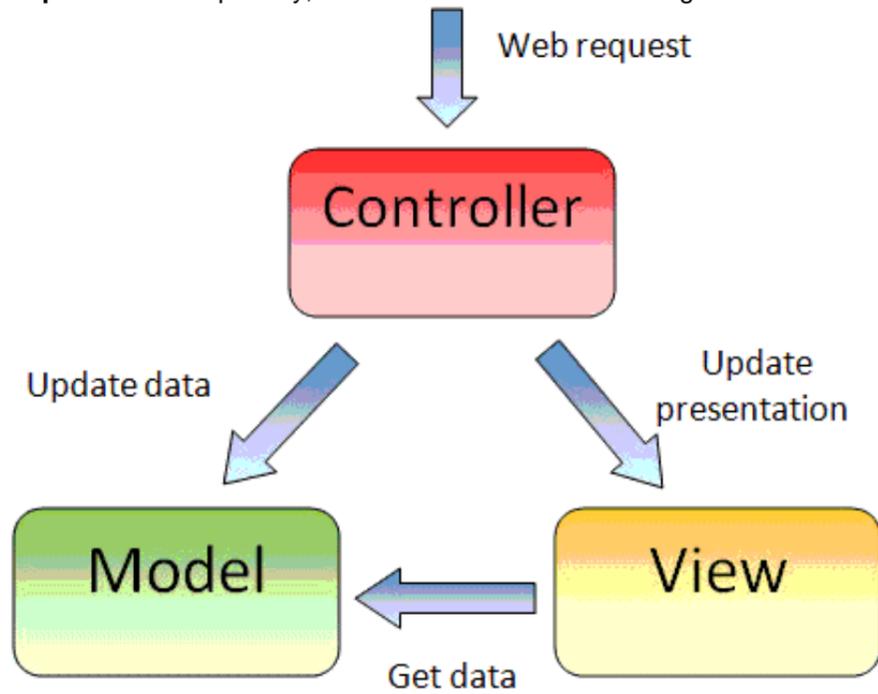
- model
- view
- controller
- viewmodel
- client
- server

Answer Area



Answer:

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 232**

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 237**

You are designing a distributed application.  
 The application must store a small amount of information that is shared across all users and does not change frequently.  
 You need to configure the application to meet the requirements.  
 Which server-side state management options will achieve the goal? Each correct answer presents a complete solution. Choose all that apply.

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

Answer: AD

**Explanation:** A: SQL Database provides a relational database management system for Windows Azure and is based on SQL Server technology. With a SQL Database instance, you can easily provision and deploy relational database solutions to the cloud, and take advantage of a distributed data center that provides enterprise-class availability, scalability, and security with the benefits of built-in data protection and self-healing.  
D: Application state is a data repository available to all classes in an ASP.NET application. Application state is stored in memory on the server and is faster than storing and retrieving information in a database. Unlike session state, which is specific to a single user session, application state applies to all users and sessions. Therefore, application state is a useful place to store small amounts of often-used data that does not change from one user to another.

#### NEW QUESTION 241

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 243

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 248

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 250

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

The web application must support older web browsers and implemented JavaScript features. You must use a polyfill to support the JavaScript Promise object in all browsers.

You need to implement a built-in ASP.NET Core Tag Helper to support polyfills.

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

Answer Area

```

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

```

Answer:

Explanation: Answer Area

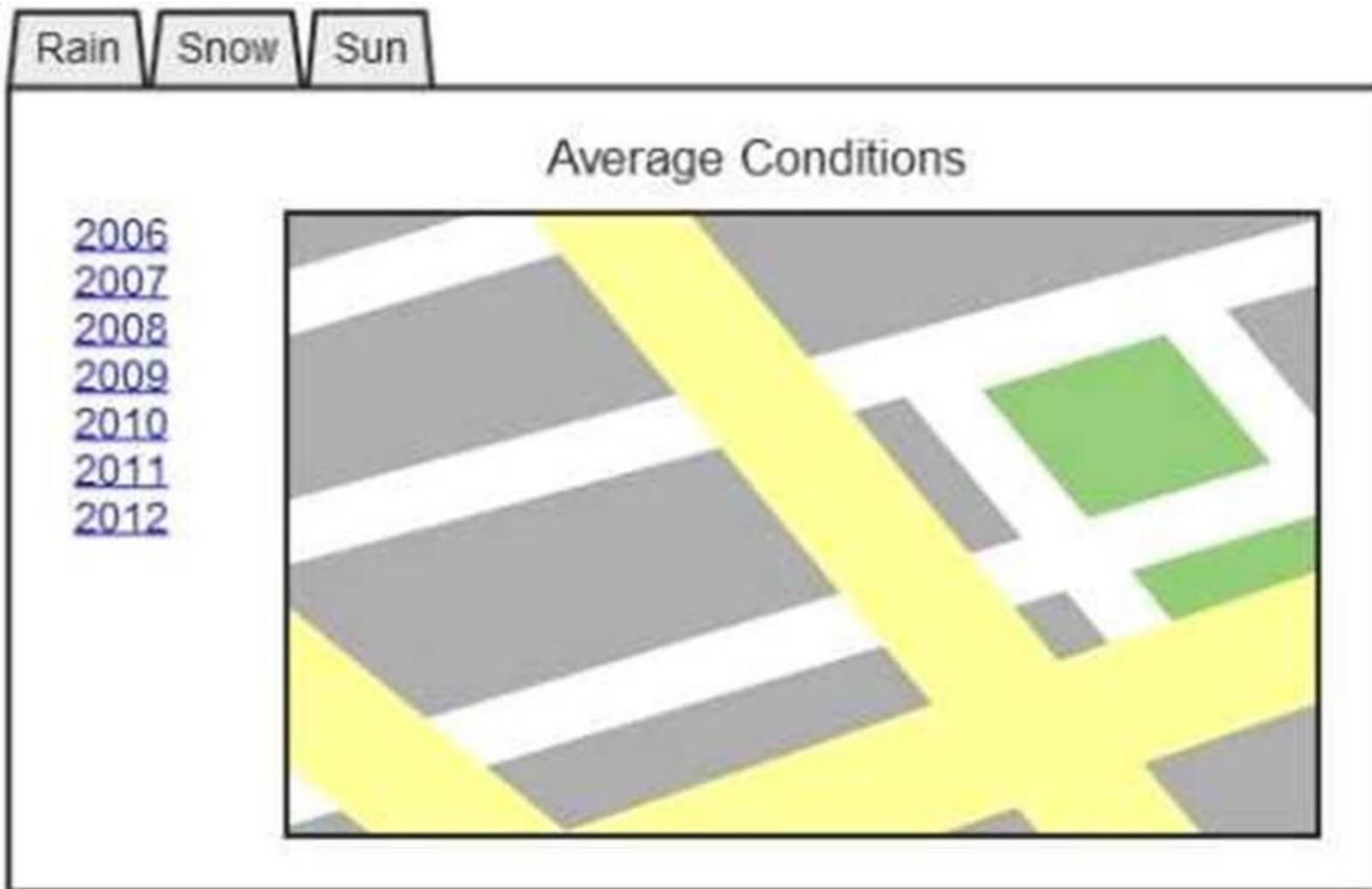
```

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

```

NEW QUESTION 254

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



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

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

Which code segment should you use?

- A. 

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

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

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

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

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

**Answer: D**

**Explanation:** HTML5 slider contains min and max properties:

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

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

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

References:

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

**NEW QUESTION 257**

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.

How should you build the class constructor? (To answer, drag the appropriate code segment to the correct location or locations in the answer area. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

ClaimNames

ClaimTypes

IIdentityCla

IClaimsIdent

ClaimType

ClaimName

```

using Microsoft.IdentityModel.Claims;

public class IdentityClaim
{
    private string _identityProvider;
    private string _identityValue;
    public const string ACSProviderClaim =
        "http://schemas.microsoft.com/accesscontrolservice/...";

    public IdentityClaim( [ ] identity)
    {
        if (identity != null)
        {
            foreach (var claim in identity.Claims)
            {
                if (claim. [ ] == [ ] .NameIdentifier)
                {
                    _identityValue = claim.Value;
                }
                if (claim. [ ] == ACSProviderClaim)
                {
                    _identityProvider = claim.Value;
                }
            }
        }
    }
}

```

**Answer:**

**Explanation:** Box 1: IClaimsIdent

Box 2: ClaimType

Box 3: ClaimTypes

Box 4: ClaimType Similar example:

For Box 1, see line 15.

For Box 2, see line 22.

For Box 3, see line 22.

For Box 4, see line 26.

1 using System;

2 using System.Collections.Generic;

3 using System.Linq;

4 using System.Web;

5 using Microsoft.IdentityModel.Claims;

06

7 namespace MVC3MixedAuthenticationSample.Models

8 {

9 public class IdentityClaim 10 {

11 private string \_identityProvider; 12 private string \_identityValue;

```

13 public const string ACSPProviderClaim =
http://schemas.microsoft.com/accesscontrolservice/2010/07/claims/identityprovider";
14
15 public IdentityClaim(IClaimsIdentity identity) 16 {
17
18 if (identity != null) 19 {
20 foreach (var claim in identity.Claims) 21 {
22 if (claim.ClaimType == ClaimTypes.NameIdentifier)
23 {
24 _identityValue = claim.Value; 25 }
26 if (claim.ClaimType == ACSPProviderClaim) 27 {
28 _identityProvider = claim.Value; 29 }
30
31 }
32 }
33
34 }

```

#### NEW QUESTION 258

You are developing an ASP.NET MVC application that supports multiple cultures and multiple languages. The application will be sold to international customers. The ASP.NET MVC application must store localized content in satellite assemblies for multiple languages. You need to generate the satellite assemblies during an automated build.

Which tool should you use?

- A. Gacutil.exe
- B. Al.exe
- C. Ildasm.exe
- D. nasm.exe

**Answer:** B

**Explanation:** Use the Assembly Linker (Al.exe) to compile .resources files into satellite assemblies. Al.exe creates an assembly from the .resources files that you specify. By definition, satellite assemblies can only contain resources. They cannot contain any executable code. The following Al.exe command creates a satellite assembly for the application MyApp from the file strings.de.resources.

al /t:lib /embed:strings.de.resources /culture:de /out:MyApp.resources.dll References: [https://technet.microsoft.com/en-us/library/21a15yht\(v=vs.85\)](https://technet.microsoft.com/en-us/library/21a15yht(v=vs.85))

#### NEW QUESTION 263

HOTSPOT

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

```

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

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

```

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

```

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

```

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

## Answer Area

Target 1:

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

Target 2:

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

Target 3:

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

**Answer:**

**Explanation:** Target 1:

Name: AcceptTypes

Synopsis: stringArray = Request.AcceptTypes

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

Target 2, Target 3:

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

### NEW QUESTION 265

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 266

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

**Answer:**

**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 270**

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 275**

**HOTSPOT**

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

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

The application includes the following class:

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

When a user clicks the button, an AJAX call must retrieve the partial view and append it to the newBooks div element. You need to implement the AJAX request. How should you complete the relevant code? To answer, select the appropriate code segment from each list in the answer area.

**Answer Area**

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

**Answer:**

**Explanation:** Example:

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

**NEW QUESTION 278**

You are designing an MVC web application. You need to combine two existing models to create a view. Which MVC component should you use?

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

**Answer:** D

**NEW QUESTION 283**

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 287**

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

**Answer:**

**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 292**

You are developing an ASP.NET MVC application that provides instant messaging capabilities to customers. You have the following requirements:

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

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

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

**Answer: D**

**NEW QUESTION 296**

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. Code segment "https://www.contoso.com/" ;
            options. Code segment "https://www.adventure-works.com/" ;
        });
    ...
}
                
```

**Answer:**

**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 298**

**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));
```

```
}
```

Answer:

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 301

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

```

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

```

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

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

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

**Answer:** B

**NEW QUESTION 305**

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

```

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

```

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

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

**Answer:**

**Explanation:** Target 1: `routes.MapRoute(`

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

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

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

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

`);`

Incorrect:

Not `routes.MapHttpRequest(`

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

References:

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

us/library/cc668201.aspx

**NEW QUESTION 306**

You are designing an HTML5 website.

You need to design the interface such that the content is viewable in all types of browsers, including screen readers.

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

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

**Answer:** DE

**NEW QUESTION 308**

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

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

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

The Load method throws an exception.

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

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

**Answer:**

**Explanation:**

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

**NEW QUESTION 310**

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

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

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

**Answer: C**

**NEW QUESTION 311**

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

**Answer:**

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

**NEW QUESTION 313**

**DRAG DROP**

You are developing an ASP.NET MVC application. You plan to use OAuth to authenticate users to the application.

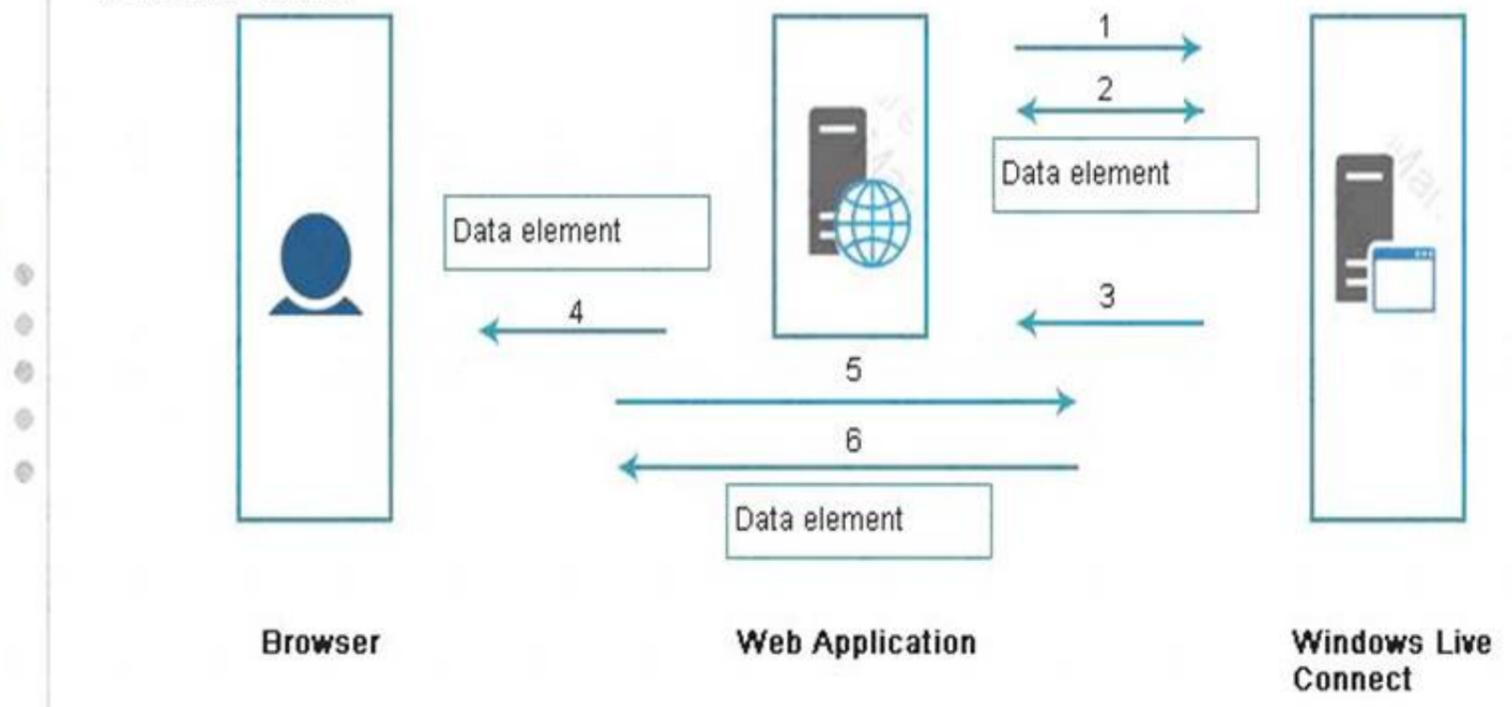
You need to use the correct authentication data in the application.

What should you do? To answer, drag the appropriate data element to the correct location or locations. Each data element 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.

Data elements

- Access Token
- Authorization Code
- Username/password

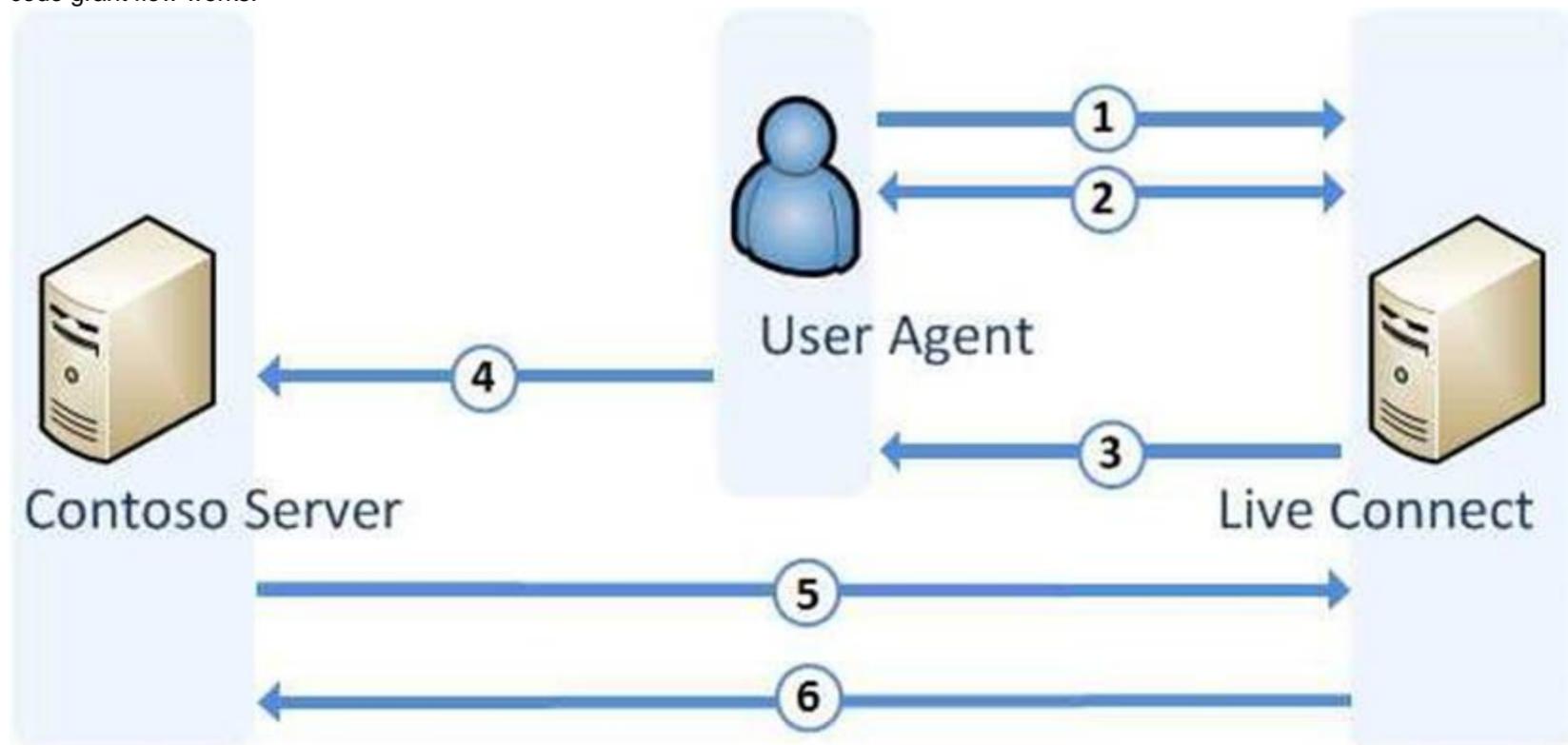
Answer Area



Answer:

**Explanation:** Live Connect implements the OAuth 2.0 protocol to authenticate users.

In the authorization code grant flow, the client makes authorization requests by using request\_type=code. The following diagram illustrates how the authorization code grant flow works.



1. The client starts the flow by directing the resource owner's user agent to the Live Connect authorization endpoint, by using a URL in the following format.  
[https://login.live.com/oauth20\\_authorize.srf?client\\_id=CLIENT\\_ID&scope=SCOPES&response\\_type=code&re](https://login.live.com/oauth20_authorize.srf?client_id=CLIENT_ID&scope=SCOPES&response_type=code&re)
2. The authorization server authenticates the resource owner via the user agent, and establishes whether the resource owner grants or denies the client's access request.
3. Assuming that the resource owner has granted access, the Live Connect authorization server redirects the user agent to the client by using the redirection URI that was provided in the initial request.
4. The user agent calls the client with the redirection URI, which includes an authorization code and any local state that was provided by the client. For example:  
[http://contoso.com/Callback.htm?code=AUTHORIZATION\\_CODE](http://contoso.com/Callback.htm?code=AUTHORIZATION_CODE).
5. The client requests an access token from the authorization server's token endpoint by using its client credentials for authentication, and includes the authorization code that was received in the previous step.
6. If the credentials are valid, the authorization server responds by returning an access token. References: <https://msdn.microsoft.com/en-us/library/hh243647.aspx>

NEW QUESTION 315

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