

# Microsoft

## Exam Questions 70-486

Developing ASP.NET MVC 4 Web Applications





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>`

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Work Area

```

<video width="320" height="240">
  <
  <
  <
  < 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 2**

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 3**

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 4

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 5

The GetDealPrice method must be called by using Ajax.

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

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

```

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

```

```

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

```

```

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

```

```

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

```

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

Answer: CD

#### NEW QUESTION 6

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 7

The GetDealPrice method must be called by using Ajax.

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

- A. `$.ajax({  
 type: "POST",  
 dataType: "json",  
 contentType: "application/json",  
 url: "Product/GetDealPrice",  
 data: '{"productId': '" + productId + "'}',  
 success: function (data) {  
 $(".price").html(data.d);  
 }  
});`
- B. `$.load({  
 dataType: "json",  
 contentType: "application/json",  
 url: "Product/GetDealPrice/" + productId,  
 success: function (data) {  
 $(".price").html(data.d);  
 }  
});`
- C. `$.ajax({  
 type: "GET",  
 dataType: "json",  
 contentType: "application/json",  
 url: "Product/GetDealPrice/" + productId,  
 success: function (data) {  
 $(".price").html(data.d);  
 }  
});`
- D. `$.getJSON("Product/GetDealPrice/" + productId  
 function (data) {  
 $(".price").html(data.d);  
 }  
);`

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

**Answer:** CD

#### NEW QUESTION 8

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 9

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

- A. 

```
[OutputCache(VaryByCustom = "gzip",
    VaryByContentEncoding = "all", Location = OutputCacheLocation.Any,)]
```
- B. 

```
[OutputCache(Location = OutputCacheLocation.Any, VaryByParam = "videoId",
    VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, ";q=0")]
```
- C. 

```
[OutputCache(Location = OutputCacheLocation.Downstream, VaryByParam = "gzip",
    VaryByCustom = "browser")]
```
- D. 

```
[OutputCache(Location = OutputCacheLocation.Downstream, Order=1,
    VaryByContentEncoding = "gzip;q=1.0, compress; q=0.5, ";q=0")]
```
- E. 

```
[OutputCache(VaryByHeader = "Cache-Control", Location =
    OutputCacheLocation.ServerAndClient,
    CacheProfile = "gzip")]
```

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

- D. Option D
- E. Option E

Answer: B

**NEW QUESTION 10**

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

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

A

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

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

B

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

return controller;
```

C

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

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

D

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

return controller;
```

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

Answer: D

**Explanation:**

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

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

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

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

Incorrect:

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

Case Study: 4, Mixed Question s

**NEW QUESTION 10**

- (Exam Topic 4)

DRAG DROP

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

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

What should you do? (To answer, drag the appropriate words to the correct targets. Each word may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

**Words**

model binder

model

http context

binding context

http handler

**Answer area**

Create a custom Word

and retrieve selected values from the Word.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**Words**

model binder

model

http context

binding context

http handler

**Answer area**

Create a custom model binder

and retrieve selected values from the binding context.

**NEW QUESTION 15**

- (Exam Topic 4)

DRAG DROP

You are developing an ASP.NET MVC web application in Visual Studio 2012.

The application has a model named ReservationLocation that contains properties named City and State.

The view that displays reservations has a single text box named loc for entering the location information. The location is entered as city, state.

There are action methods that have ReservationLocation as a parameter type. You need to ensure that the City and State properties are correctly populated.

How should you implement model binding for the ReservationLocation type? (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.)

```
bindingContext.ModelType = typeof
(ReservationLocation);

var raw = bindingContext.ValueProvider.GetValue
("loc");

dynamic data = bindingContext.ValueProvider.GetValue
("loc");

dynamic data = raw.RawValue
.ToString().Split(',');

bindingContext.ModelState.Add("city, state",
new ModelState { Value = data });

dynamic data = controllerContext.RouteData
.Values[raw + "[city, state]"];
```

```
public class ReservationModelBinder : IModelBinder
{
    public object BindModel(ControllerContext controllerContext,
        ModelBindingContext bindingContext)
    {
        
        
        return new ReservationLocation
        {
            City = data[0],
            State = data[1],
        };
    }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
bindingContext.ModelType = typeof
(ReservationLocation);
```

```
dynamic data = bindingContext.ValueProvider.GetValue
("loc");
```

```
bindingContext.ModelState.Add("city, state",
new ModelState { Value = data });
```

```
dynamic data = controllerContext.RouteData
.Values[raw + "[city, state]"];
```

```
public class ReservationModelBinder : IModelBinder
{
    public object BindModel(ControllerContext controllerContext,
        ModelBindingContext bindingContext)
    {
        var raw = bindingContext.ValueProvider.GetValue
("loc");

        dynamic data = raw.RawValue
            .ToString().Split(',');

        return new ReservationLocation
        {
            City = data[0],
            State = data[1],
        };
    }
}
```

#### NEW QUESTION 18

- (Exam Topic 4)

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

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

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

Which tool should you use?

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

**Answer:** E

**Explanation:**

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

**NEW QUESTION 23**

- (Exam Topic 4)

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

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

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

**Answer Area**

```

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

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

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

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

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

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

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- Box 1: UseSqlServer
- Box 2: AddIdentity
- Box 3: Configure

Box 4: ConfigureApplicationCookie  
 Box 5: UseAuthentication References:  
<https://docs.microsoft.com/en-us/aspnet/core/security/authentication/identity?view=aspnetcore-2.1&tabs=visual->

**NEW QUESTION 24**

- (Exam Topic 4)

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

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

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

**Answer Area**

**Markup Segments**

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

**Target 1:**

*Markup Segment*

**Target 2:**

*Markup Segment*

**Target 3:**

*Markup Segment*

**Target 4:**

*Markup Segment*

**Target 5:**

*Markup Segment*

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

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

**NEW QUESTION 26**

- (Exam Topic 4)

**HOTSPOT**

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

```

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

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

**Answer Area**

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

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

**Answer Area**

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

**NEW QUESTION 27**

- (Exam Topic 4)

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

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

Answer: A

**Explanation:**

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

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

**NEW QUESTION 29**

- (Exam Topic 4)

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

```
public class AsyncHttpModule : IHttpModule
{
    public void Init(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);
        }
    }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

**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 31**

- (Exam Topic 4)

DRAG DROP

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

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



```

public class USOnlyRouteHandler :
{
    public GetHttpHandler(
        RequestContext)
    {
        return new USIPHandler(RequestContext);
    }
}

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References:

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

**NEW QUESTION 36**

- (Exam Topic 4)

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

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

You are developing an ASP.NET Core MVC web application. The landing page of the application contains over 100 small JPEG images, including many images that have embedded 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: Combine images into a single image and use CSS sprites.

- A. Yes
- B. No

**Answer:** A

**NEW QUESTION 38**

- (Exam Topic 4)

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

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

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

**Answer:** B

**NEW QUESTION 39**

- (Exam Topic 4)

Your company uses Microsoft Azure DevTest Labs for testing applications.

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

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

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

**Answer:** B

**Explanation:**

References:

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

**NEW QUESTION 41**

- (Exam Topic 4)

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

```

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

```

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

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

You need to correct the performance issues.

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

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

**Answer:** AB

**Explanation:**

B: They report delays in seeing the latest game results. This is the output of the GetResults() function. We decrease the Duration in the cache for this function from 3600 to 30. This is on 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 44**

- (Exam Topic 4)

**HOTSPOT**

You are developing an ASP.NET MVC application to display product information. The application has two views. The first view displays a list of product names. When you select a product name, the second view shows detailed information for the product that is selected. The product detail view receives a query string value that contains an identifier for the product that is selected.

The product controller for the application has the following requirements:

- The product list and product details must use output caching.
- The list of products must be cached daily.
- The product details view must cache data for one hour, based on the product that is selected.

You need to implement the product controller.

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

```
Public class ProductsController : Controller
{
    private readonly ProductDataContext _dataContext;
    public ProductsController ()
    {
        _dataContext = new ProductDataContext ();
    }
}
```

	▼
[OutputCache(Duration = 1)]	
[OutputCache(Duration = 24, VaryByParam = "*")]	
[OutputCache(Duration = 86400, VaryByParam = "none")]	
[OutputCache(Duration = int.MaxValue, NoStore = false)]	

```
public ActionResult GetProductList ()
{
    ViewData.Model = (from p in _dataContext.Products select
p).ToList ();
    return View ();
}
```

	▼
[OutputCache(Duration = 1, VaryByParam = "id")]	
[OutputCache(Duration = 60, VaryByParam = "*")]	
[OutputCache(Duration = 3600, VaryByParam = "id")]	
[OutputCache(NoStore = false, VaryByParam = "id")]	

```
Public ActionResult GetProductDetails (int id)
{
    ViewData.Model = _dataContext.Products.SingleOrDefault (p =>
p.Id == id);
    return View ();
}
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

Box 1: [OutputCache(Duration = 86400, VaryByParam = "none")]

The list of products must be cached daily. One day is 86400 seconds (60\*60\*24).

Note: The Duration parameter is the time, in seconds, that the page or user control is cached. Setting this attribute on a page or user control establishes an expiration policy for HTTP responses from the object and will automatically cache the page or user control output.

Box 2: [OutputCache(Duration = 3600, VaryByParam = "id")]

The product details view must cache data for one hour, based on the product that is selected. One hour is 3600 seconds (60\* 60).

References: [https://msdn.microsoft.com/en-us/library/hdxfb6cy\(v=vs.100\).aspx](https://msdn.microsoft.com/en-us/library/hdxfb6cy(v=vs.100).aspx)

**NEW QUESTION 47**

- (Exam Topic 4)

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

```

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

```

You must enforce the following requirements for the actions:

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

You need to configure the class.

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

- A Add the following code segment at line 17:  

```
[Authorize (Roles = "HR-Administrator")]
```

```
[Authorize (Roles = "Global-Administrator")]
```
- B Add the following code segment at line 1:  

```
[Authorize]
```
- C Add the following code segment at line 10:  

```
[Authorize (Roles = "HR-Administrator, Global-Administrator")]
```
- D Add the following code segment at line 1:  

```
[Authorize (Roles = "HR-Administrator")]
```

```
[Authorize (Roles = "Global-Administrator")]
```
- E Add the following code segment at line 17:  

```
[Authorize (Roles = "HR-Administrator, Global-Administrator")]
```
- F Add the following code segment at line 10:  

```
[Authorize (Roles = "HR-Administrator")]
```

```
[Authorize (Roles = "Global-Administrator")]
```

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

**Answer:** BEF

**Explanation:**

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

**NEW QUESTION 49**

- (Exam Topic 4)

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

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

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

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

Solution: Change the application startup code to debug the OWIN pipeline. Does the solution meet the goal?

- A. Yes
- B. No

**Answer:** B

**NEW QUESTION 52**

- (Exam Topic 4)

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

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

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

**Answer:** BCE

**Explanation:**

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

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

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

```
</appSettings>
</configuration>
```

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

#### NEW QUESTION 54

- (Exam Topic 4)

DRAG DROP

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

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

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

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

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

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

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

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

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

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

```

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

```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

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

```

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

**NEW QUESTION 58**

- (Exam Topic 4)

You are developing an ASP.NET MVC application.

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

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

**Answer: C**

**Explanation:**

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

**NEW QUESTION 61**

- (Exam Topic 4)

DRAG DROP

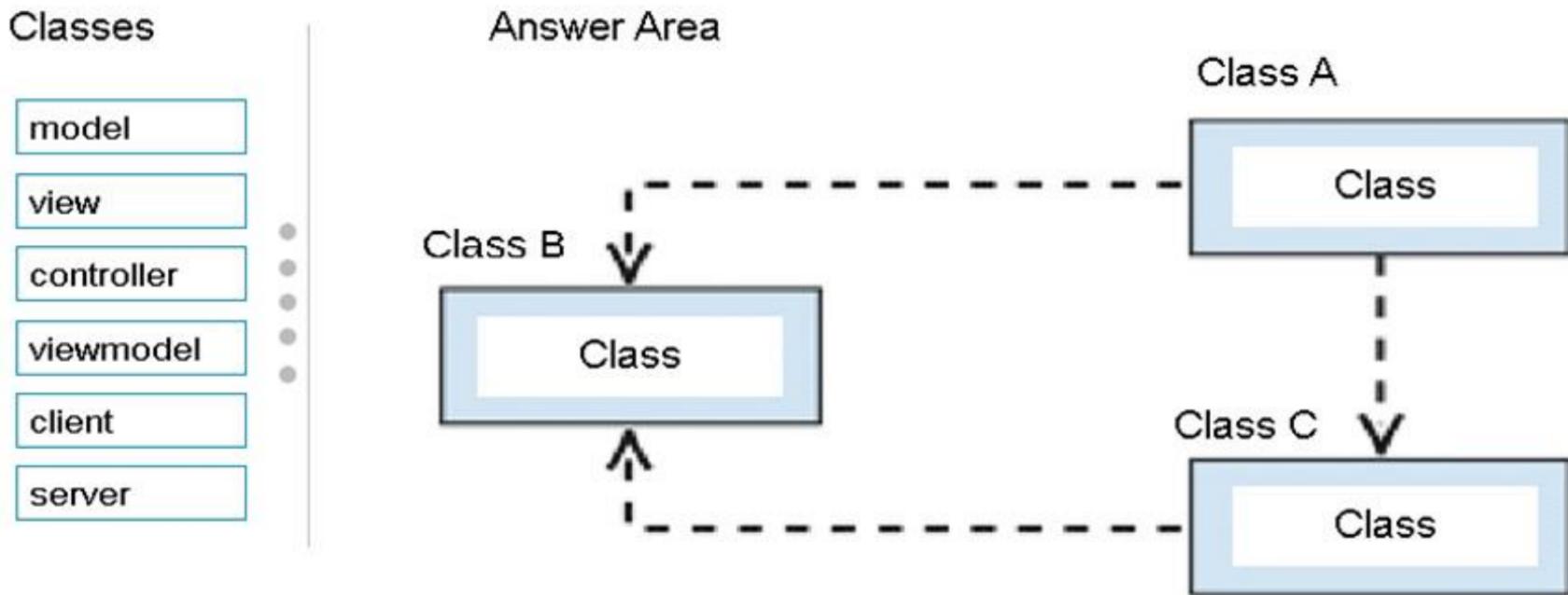
You plan a new ASP.NET MVC application.

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

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

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

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

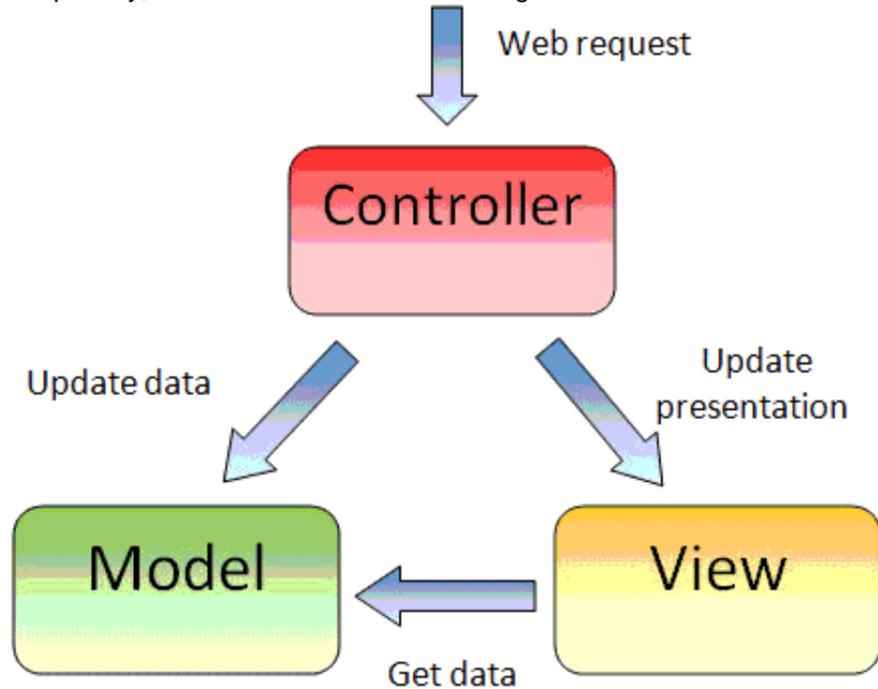


- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Graphically, MVC can be shown like on image bellow:



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

**NEW QUESTION 63**

- (Exam Topic 4)

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

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

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

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

**Answer:** B

**Explanation:**

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

Incorrect:

Not A: Application State does not exist in Azure.

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

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

**NEW QUESTION 66**

- (Exam Topic 4)

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
      environment
      cache
      distributed-cache
    </>
    <asp-fallback-test
      asp-fallback-src
      asp-fallback-test-property
      asp-fallback-test-value
    > = "window.Promise"
      "https://cdn.jsdelivr.net/npm/promise-polyfill@6.0.2" >
    </>
    <asp-fallback-test
      asp-fallback-src
      asp-fallback-test-property
      asp-fallback-test-value
    > = "h
      "https://cdn.jsdelivr.net/npm/promise-polyfill@6.0.2" >
    </>
    <
      script
      environment
      cache
      distributed-cache
    >
  </body>
</html>
  
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**Answer Area**

```

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

```

**NEW QUESTION 70**

- (Exam Topic 4)

DRAG DROP

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

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

You need to implement authentication.

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;
                }
            }
        }
    }
}
```

- A. Mastered
- B. Not Mastered

Answer: A

**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
07 namespace MVC3MixedAuthenticationSample.Models
08 {
09 public class IdentityClaim 10 {
11 private string _identityProvider; 12 private string _identityValue;
13 public const string ACSProviderClaim =
14 http://schemas.microsoft.com/accesscontrolservice/2010/07/claims/identityprovider";
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 73

- (Exam Topic 4)

You are developing an application that uses ASP.NET Core Identity for authorization. The application must use an existing Microsoft Azure Table Storage instance to store user information. You create a custom UserStore class.

You need to register the class as a dependency.

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

- A. IUserSecurityStampStore
- B. IUserLoginStore
- C. IQueryableUserStore
- D. IUserStore
- E. IUserPasswordStore

**Answer:** BD

#### Explanation:

D: Create a UserStore class that provides the methods for all data operations on the user. This class is equivalent to the UserStore class. In your UserStore class, implement IUserStore<TUser> and the optional interfaces required. You select which optional interfaces to implement based on the functionality provided in your app.

Interfaces to implement when customizing user store References:

<https://docs.microsoft.com/en-us/aspnet/core/security/authentication/identity-custom-storageQQ-providers?view>

### NEW QUESTION 76

- (Exam Topic 4)

You are developing an application that uses many small images. When the images load, the application runs slowly.

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

- A. Preload all the images when the application starts to ensure that the images are cached.
- B. Convert the images to ICO file format and stream all images on a single connection.
- C. Host all images on a Microsoft Azure web role with multiple instances.
- D. Combine all the images into a single image and use CSS to create sprites.

**Answer:** D

#### Explanation:

Because browsers limit how many concurrent HTTP requests they make to a website, a web page with many small icon images can result in a longer load time. You can combine many small images into a single larger image - a CSS sprite - using the free ASP.NET Sprite and Image Optimization Library available from Microsoft.

References:

### NEW QUESTION 79

- (Exam Topic 4)

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

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

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

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

**Answer:** C

#### Explanation:

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

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

### NEW QUESTION 83

- (Exam Topic 4)

You are developing an ASP.NET MVC application that uses forms authentication to verify that the user is logged in.

Authentication credentials must be encrypted and secure so no user identity is exposed. You need to ensure that user credentials are persisted after users log on.

Where should you store the credentials? (Each correct answer presents a complete solution. Choose all that apply.)

- A. In Session on the server
- B. In a cookie stored in the browser
- C. In ViewData in the application
- D. In TempData on the server

**Answer:** AB

**Explanation:**

Server sessions and cookies can both be configured to secure and they both persist after the users log on. Incorrect:

Not C: ViewData's life only lasts during current http request.

Not D: TempData is a bucket where you can dump data that is only needed for the following request. That is, anything you put into TempData is discarded after the next request completes.

**NEW QUESTION 87**

- (Exam Topic 4)

You are developing an ASP.NET Core MVC web application for AdventureWorks Cycles.

You need to ensure that users can authenticate with Contoso Ltd., an OpenID Connect authentication provider. How should you complete the code? To answer, drag the appropriate code segments to the correct locations.

Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

NOTE: Each correct selection is worth one point.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

**NEW QUESTION 89**

- (Exam Topic 4)

**HOTSPOT**

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

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

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

You need to enable users to open Excel files.

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

Work Area

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

```
if (canProcess)
```

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



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

Work Area

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

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

```
if (canProcess)
```

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

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

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

### Work Area

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

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

```
if (canProcess)
{
```

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

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

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

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

```
}
```

#### NEW QUESTION 94

- (Exam Topic 4)

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

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

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

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

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

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

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

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

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

**Answer:** D

#### Explanation:

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

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

References:

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

**NEW QUESTION 99**

- (Exam Topic 4)

DRAG DROP

You are developing an ASP.NET MVC application in a web farm. The application has a page that uploads a customer's photo, resizes it, and then redirects the browser to a page where the new image is displayed along with the final dimensions.

The final dimensions should be available only to the page where the new image 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.)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**NEW QUESTION 101**

- (Exam Topic 4)

You are designing a ASP.NET Core MVC application that runs on the Microsoft Azure platform.

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.

NOTE: Each correct selection is worth one point.

- A. HTTP Cookie
- B. Azure SQL Database
- C. ASP.NET session state
- D. ASP.NET application state

**Answer:** BD

**NEW QUESTION 106**

- (Exam Topic 4)

You create an ASP.NET MVC application. You host the application by using the Open Web Interface for .NET (OWIN). You run the following command by using the NuGet Package Manager console:

install-package Microsoft.AspNet.SignalR

You plan to implement real-time push notifications from the server using ASP.NET SignalR. You need to complete the ASP.NET SignalR implementation.

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

- A. Create a hub class to push content to clients.
- B. Create a class that derives from the PersistentConnection class
- C. Use the derived class to push content to clients.
- D. Use the SignalR jQuery library in a web page to send messages to the hub and display updates from the hub.
- E. Map a SignalR hub to the app builder pipeline by using an OWIN startup class.
- F. Start the SignalR hub asynchronously and respond to the appropriate callback methods.

**Answer:** ACD

**Explanation:**

A: In Solution Explorer, right-click the project, select Add | New Folder, and add a new folder named Hubs. Right-click the Hubs folder, click Add | New Item, select the Visual C# | Web | SignalR node in the Installed pane, select SignalR Hub Class (v2) from the center pane, and create a new hub named ChatHub.cs. You will use this class as a SignalR server hub that sends messages to all clients.

C: Use the SignalR jQuery library in a web page to send messages and display updates from the hub. D: Create an OWIN startup class to configure the application.

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

**NEW QUESTION 107**

- (Exam Topic 4)

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

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

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

**Answer: C**

**Explanation:**

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

Incorrect:

Not B: Windows authentication would require an Active Directory.

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

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

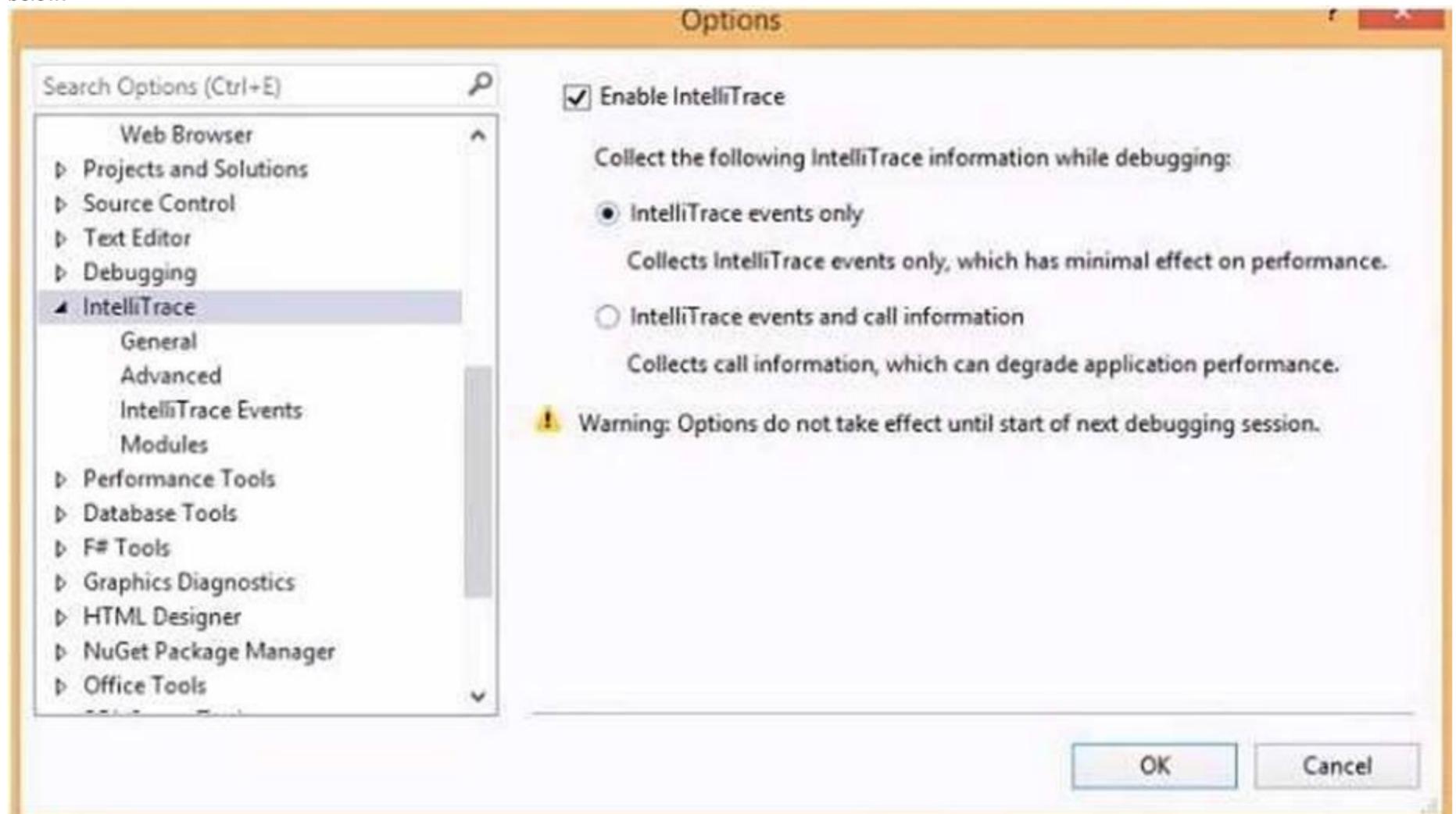
/ You set up the computers and accounts on your network as trusted for delegation. References: [https://msdn.microsoft.com/en-us/library/ff398049\(VS.98\).aspx](https://msdn.microsoft.com/en-us/library/ff398049(VS.98).aspx)

**NEW QUESTION 109**

- (Exam Topic 4)

HOTSPOT

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



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

**Answer Area**

Which data will be available during debugging?

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

Which debugging features will be disabled?

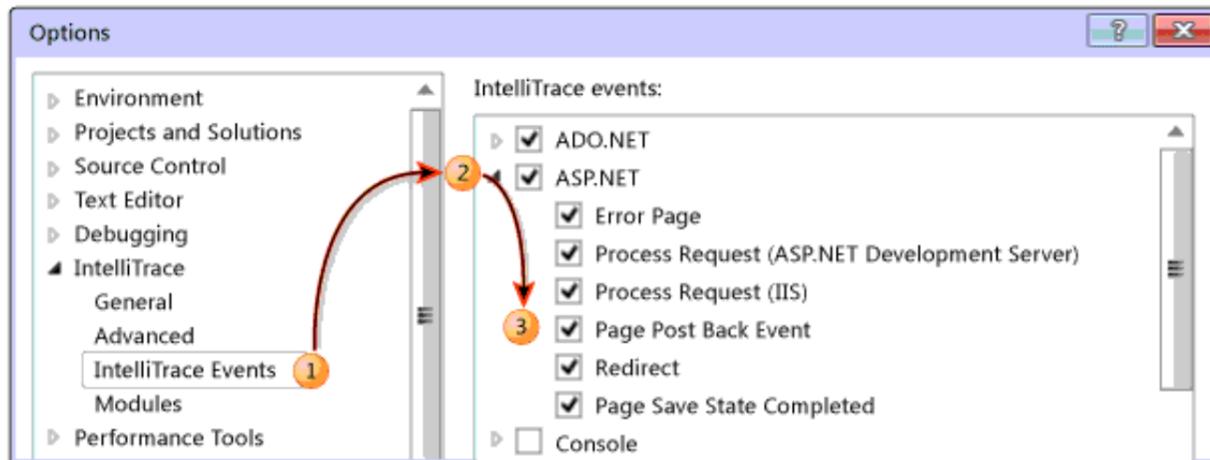
Edit and Continue  
 Tracepoints and breakpoints  
 Tracing for every method entry and exit

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Box 1:



Box 2:

Which data will be available during debugging?

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

Which debugging features will be disabled?

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

**NEW QUESTION 111**

- (Exam Topic 4)

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

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

What should you do?

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

**Answer:** B

**Explanation:**

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

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

**NEW QUESTION 115**

- (Exam Topic 4)

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

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

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

- A. Download the publishsettings file from Azure portal
- B. Create an FTP connection to the Azure Web App and update the file.

- C. Use the Visual Studio Server Explorer remote view feature to update the file.
- D. Create a Web.config transform and deploy a debug build.
- E. Use Visual Studio to remotely debug and update the file.

**Answer:** D

**NEW QUESTION 117**

- (Exam Topic 4)

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

You need to enable developers to manipulate the data.

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

Choose all that apply.)

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

**Answer:** ABC

**NEW QUESTION 120**

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