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**Vendor:**Microsoft

**Exam Code:**70-486

**Exam Name:**Developing ASP.NET MVC Web  
Applications

**Version:**Demo

## QUESTION 1

### HOTSPOT

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

You are developing an ASP.NET Core application. You have the following code:

You create a folder named Content in your project. You add a controller action that uses authorization and returns a FileResult object. The application must meet the following requirements:

1.

Use Kestrel as the server.

2.

Serve static files from the wwwroot folder and publicly cache the files for five minutes.

3.

Serve static from the Content folder to authorized users only.

4.

Serve a default.html file from the wwwroot folder.

You need to configure the application.

How should you complete the code? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

## Answer Area

```
public class Startup
{
    public Startup(IConfiguration configuration)
    {
        Configuration = configuration;
    }
    public IConfiguration Configuration { get; }
    public void ConfigureServices(IServiceCollection services)
    {
        services.AddMvc();
    }
    public void Configure(IApplicationBuilder app, IHostingEnvironment env)
    {
        . . .
        app. [dropdown] ();
        app. [dropdown] (new StaticFileOptions ()
        {
            OnPrepareResponse = ctx =>
            {
                ctx.Context.Response.Headers.Append("Cache-Control", "public,max-age=300")
            }
        });
        app. [dropdown] (new StaticFileOptions ()
        {
            FileProvider = new PhysicalFileProvider(
                Path.Combine(Directory.GetCurrentDirectory(), "Content")),
            RequestPath = new PathString("/secure")
        });
    }
}
```

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Correct Answer:

## Answer Area

```
public class Startup
{
    public Startup(IConfiguration configuration)
    {
        Configuration = configuration;
    }
    public IConfiguration Configuration { get; }
    public void ConfigureServices(IServiceCollection services)
    {
        services.AddMvc();
    }
    public void Configure(IApplicationBuilder app, IHostingEnvironment env)
    {
        . . .
        app. [dropdown] ();
        app. [dropdown] (new StaticFileOptions ()
        {
            OnPrepareResponse = ctx =>
            {
                ctx.Context.Response.Headers.Append("Cache-Control", "public,max-age=300")
            }
        });
        app. [dropdown] (new StaticFileOptions ()
        {
            FileProvider = new PhysicalFileProvider(
                Path.Combine(Directory.GetCurrentDirectory(), "Content")),
            RequestPath = new PathString("/secure")
        });
    }
}
```



Box 1: UseStaticFiles For the wwwroot folder. We serve static files from the wwwroot folder  
Box 2: UseStaticFiles  
Box 3: UseStaticFiles Serve static from the Content folder to authorized users only. Note the two app.UseStaticFiles calls. The first one is required to serve the CSS, images and JavaScript in the wwwroot folder (Box 1), and the second call (box 3) for directory browsing of the content folder  
Code example: app.UseStaticFiles(new StaticFileOptions())

```
{  
FileProvider = new PhysicalFileProvider(  
Path.Combine(Directory.GetCurrentDirectory(), @"MyStaticFiles"),  
RequestPath = new PathString("/StaticFiles")  
});
```

References:

<https://jakeydocs.readthedocs.io/en/latest/fundamentals/static-files.html>

---

## QUESTION 2

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

Correct Answer: D

---

### QUESTION 3

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.

Hot 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 : ControllerBase
{
    [Route]
    public ActionResult Index()
    {
        return View();
    }

    [Route]
    public ActionResult Product(int Id)
    {
        return View("Products", ProductModel.GetProduct(Id));
    }

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

```

Correct Answer:

```

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 : ControllerBase
{
    [Route]
    public ActionResult Index()
    {
        return View();
    }

    [Route]
    public ActionResult Product(int Id)
    {
        return View("Products", ProductModel.GetProduct(Id));
    }

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

```

1.

routers.MapPageRoute("products", "/products", "ProductController.cs")

2.

Router("(ID)"]

---

#### QUESTION 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

Correct Answer: B

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

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#### QUESTION 5

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

You have received instructions to create a new Certkingdom.com website, using HTML5. You have been informed that the interface has to allow for the web page content to be accessible to disabled users.

Which of the following actions should you take?

- A. You should consider including the use of File API attributes.
- B. You should consider including the use of WebSocket API attributes.
- C. You should consider including the use of Accessible Rich Internet Application (ARIA) attributes.
- D. You should consider including the use of Geolocation attributes.
- E. You should consider including the use of Indexed Database API attributes.



Correct Answer: C

---

### QUESTION 6

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

Correct Answer: A

---

### QUESTION 7

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

You are making use of Visual Studio 2012 to create a new ASP.NET MVC application for Certkingdom.com. The new application should be installed on Certkingdom.com servers located on various networks. Furthermore, the application

should be configured to collect news articles for users to browse. The application should, therefore, be accessible via various browsers to allow users to search the site.

You have been instructed to make sure that the page numbers viewed by users in the search results are tracked. To do this, you are required to make sure that the location for storing state data, with reference to the user's search, is configured.

Which of the following actions should you take?

- A. You should consider storing search terms and page index by making use of Query.
- B. You should consider storing search terms and page index by making use of String.
- C. You should consider storing search terms and page index by making use of QueryString.
- D. You should consider storing search terms and page index by making use of Search.

Correct Answer: C

---

### QUESTION 8

You need to ensure that URLs for log manipulation are mapped to the controller.

Target 1

```
name: "GetLog",
```

Target 2

```
defaults: new
```

```
{
```

```
  controller = "RunLog",
```

```
  action = "GetLog"
```

```
}
```

```
};
```

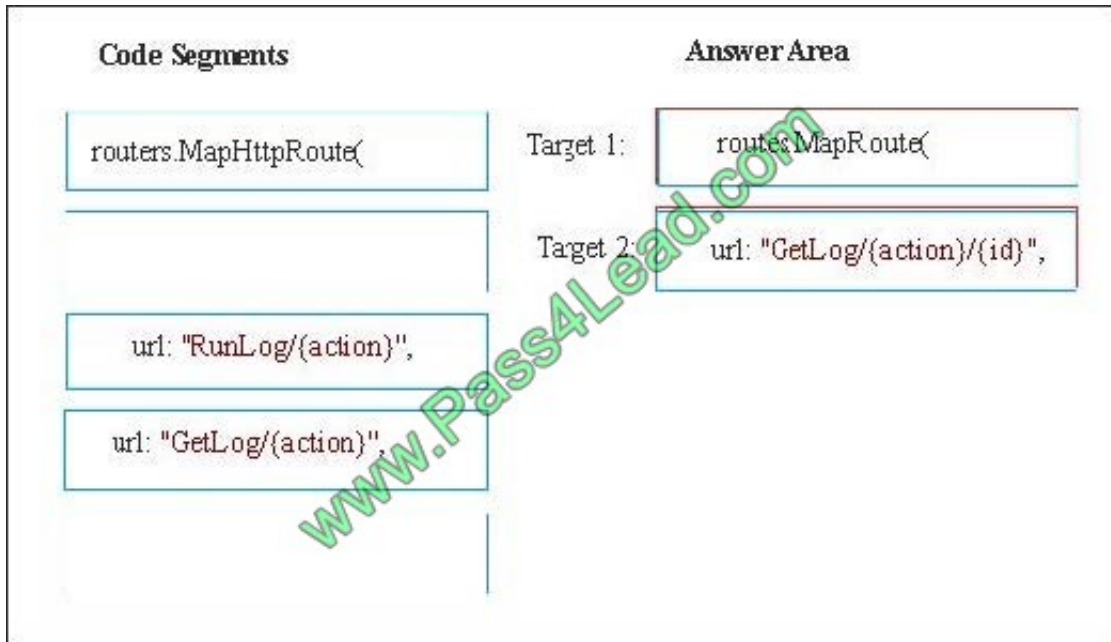
You have the following code:

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.

Select and Place:

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

Correct Answer:



Target 1: routes.MapRoute(

The MapRoute method takes three parameters: routes, name, and URL.

Target 2: url: "GetLog/{action}/{id}",

Example code:

```
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>

## QUESTION 9

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

Correct Answer: ABC

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### QUESTION 10

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.

Select and Place:

The interface shows a list of tools on the left: Bower, NuGet, Gulp, and Node package manager. A vertical line separates this from two target scenarios: 'Execute processes in parallel' and 'Distribute packages'. To the right of these scenarios are two yellow boxes labeled 'Tool', representing the destination for the dragged tools.

Correct Answer:



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

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### QUESTION 11

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

You make use of Visual Studio 2012 to create new ASP.NET MVC web applications for Certkingdom.com.

You are currently running a training exercise for junior developers. You are discussing state management options that allows the storing of data on the server. You are currently dealing with the option that allows you to store user-specific data.

Which of the following is the option being discussed?

- A. Query Strings.
- B. Application State.
- C. Profile Properties.
- D. Session State.
- E. View State.

Correct Answer: C

---

### QUESTION 12

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. Use StaticFiles for the folder that contains the files.
- C. In the startup ConfigureServices method, call IServiceCollection. Add DirectoryBrowser for the folder that contains the files.
- D. Mark vendor provided files as content and set the value for Copy to Output Directory to CopyAlways.

Correct Answer: B

References: <https://docs.microsoft.com/en-us/aspnet/core/fundamentals/middleware/?view=aspnetcore-2.1&tabs=aspnetcore2x>

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