



# 70-486<sup>Q&As</sup>

Developing ASP.NET MVC Web Applications

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### QUESTION 1

You are developing an ASP.NET MVC application that will be deployed on local Internet Information Services (IIS) servers and on an Azure Web Role.

You must log events for the application when it is deployed locally and on Azure. You must not deploy additional services.

You need to implement a logging solution.

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

- A. event log
- B. trace
- C. console
- D. named pipe

Correct Answer: AB

---

### QUESTION 2

#### HOTSPOT

You need to implement the map of the runners\' paths.

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

Hot Area:



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>
```

Correct Answer:



Work Area

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

The tag defines a container for an external application or interactive content (a plug-in).



Example, an embedded flash animation:

References: [http://www.w3schools.com/tags/tag\\_embed.asp](http://www.w3schools.com/tags/tag_embed.asp)

### QUESTION 3

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.

Hot Area:

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"
      amai.com/promise-polyfill@6.0.2">

      asp-fallback-test
      asp-fallback-src
      asp-fallback-test-property
      asp-fallback-test-value
      ="h

    script
    environment
    cache
    distributed-cache
```

Correct Answer:





## 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"
    amai.com/promise-polyfill@6.0.2">

    asp-fallback-test = "h
    asp-fallback-src
    asp-fallback-test-property
    asp-fallback-test-value

    script
    environment
    cache
    distributed-cache
```

## QUESTION 4

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

```
01 public class PaymentProcessorOutage : WebRequestEvent
02 {
03     public PaymentProcessorOutage(object eventSource, int eventCode) :
04         base("Payment Processor not responsive", eventSource, eventCode) {}
05
06     public override void FormatCustomEventDetails(WebEventFormatter formatter)
07     {
08         var message = string.Format("Payment processor became non-responsive on {0}", EventTime);
09         formatter.AppendLine(message);
10     }
11 }
```

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.



Select and Place:

Code segments	Answer Area
<div>.WebExtendedBase + 30</div>	<pre>public ActionResult myResult() {     var code = (int)EventCodes <div>Code segment</div>     var outage = new PaymentProcessorOutage(this, code);     <div>Code segment</div>     return Content("done"); }</pre>
<div>.ApplicationCodeBase + 30;</div>	
<div>.ApplicationDetailCodeBase + 30;</div>	
<div>.FormatCustomEventDetails(null);</div>	
<div>.Raise();</div>	
<div>.Concat()</div>	

Correct Answer:

Code segments	Answer Area
<div>.WebExtendedBase + 30</div>	<pre>public ActionResult myResult() {     var code = (int)EventCodes <div>.ApplicationDetailCodeBase + 30;</div>     var outage = new PaymentProcessorOutage(this, code);     <div>.Raise();</div>     return Content("done"); }</pre>
<div>.ApplicationCodeBase + 30;</div>	
<div></div>	
<div>.FormatCustomEventDetails(null);</div>	
<div></div>	
<div>.Concat()</div>	

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.)

Incorrect:

\*

ActionResult WebEventCodes

\*

WebExtendedBase: Identifies the offset for the custom event codes. This field is constant.

\*

ApplicationCodeBase: Identifies the offset for the ASP.NET health-monitoring application event codes. This field is constant.

\*



There is no `WebRequestEvent.Concat()` event. Reference: `WebEventCodes` Class [https://msdn.microsoft.com/en-us/library/system.web.management.webeventcodes\(v=vs.110\).aspx](https://msdn.microsoft.com/en-us/library/system.web.management.webeventcodes(v=vs.110).aspx) Reference: `WebRequestEvent` Class [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)

## QUESTION 5

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.

Select and Place:

**Code segments**  
Equals(this)  
SuspiciousTransaction()  
IsEnabled()  
Guid  
Name

**Answer Area**  

```
public class PaymentEvents : RetailEventSource
{
    public void LogPayment(string data)
    {
        // Code segment
        // Code segment
        WriteEvent(PaymentProcessed, FormattedData(data));
    }
}
```

Correct Answer:

**Code segments**  
Equals(this)  
SuspiciousTransaction()  
Guid  
Name

**Answer Area**  

```
public class PaymentEvents : RetailEventSource
{
    public void LogPayment(string data)
    {
        // Code segment
        // Code segment
        WriteEvent(PaymentProcessed, FormattedData(data));
    }
}
```

## QUESTION 6

You are developing an ASP.NET Core application. You plan to use YAML as the configuration language.

You create a custom YAML configuration parser.

You need to implement a mechanism to support reading and applying these YAML configurations.

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.

Select and Place:

Code segments

DistionaryConfigurationSource

JsonConfigurationSource

JsonConfigurationProvider

FileConfigurationSource

FileConfigurationProvider

Answer area

```
public class YamlConfigurationSource:
{
    public override IConfigurationProvider Build(IConfigurationBuilder builder)
    {
        FileProvider = FileProvider ?? builder.GetFileProvider();
        return new YamlConfigurationProvider(this);
    }
}
```

Correct Answer:

Code segments

DistionaryConfigurationSource

JsonConfigurationSource

JsonConfigurationProvider

FileConfigurationSource

FileConfigurationProvider

Answer area

```
public class YamlConfigurationSource: FileConfigurationProvider
{
    public override IConfigurationProvider Build(IConfigurationBuilder builder)
    {
        FileProvider = FileProvider ?? builder.GetFileProvider();
        return new YamlConfigurationProvider(this);
    }
}
```

## QUESTION 7

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

EnsureSecurityMiddleware must always run prior to other middleware.

You need to configure the middleware.

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

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

NOTE: Each correct selection is worth one pint.

Select and Place:



Code segments

IStartupFilter

IMiddlewareFactory

IMiddleware

IApplicationBuilder

IApplicationLife

IHostingStartup

Answer area

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

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

Correct Answer:

Code segments

IStartupFilter

IMiddlewareFactory

IMiddleware

IApplicationBuilder

IApplicationLife

IHostingStartup

Answer area

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

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

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

## QUESTION 8

You are developing an ASP.NET Core Web API.

API methods must use JSON Web Tokens (JWT) to authenticate the method caller.

You need to implement JWT authentication.

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:



```
public class Startup
```

```
{
```

```
...
```

```
public void ConfigureServices(IServiceCollection services)
```

```
{
```

```
services. (JwtBearerDefaults.AuthenticationScheme)
```

```
AddAuthentication
```

```
AddIdentity
```

```
AddAuthorization
```

```
AddOpenIdConnect
```

```
AddJwtBearer
```

```
AddOAuth
```

```
("JwtBearer", jwtBearerOptions =>
```

```
{
```

```
jwtBearerOptions.TokenValidationParameters = new TokenValidationParameters
```

```
{
```

```
ValidateActor = true, ValidateAudience = true, ValidateLifetime = true,
```

```
ValidateIssuerSigningKey = true, ValidIssuer = Configuration["Tokens:Issuer"],
```

```
ValidAudience = Configuration["Tokens:Audience"], IssuerSigningKey =
```

```
new SymmetricSecurityKey(Encoding.UTF8.GetBytes(Configuration["Tokens:SigningKey"])))
```

```
};
```

```
});
```

```
services.AddMvc();
```

```
}
```

```
public void Configure(IApplicationBuilder app, IHostingEnvironment env)
```

```
{
```

```
...
```

```
app. ();
```

```
UseAuthentication
```

```
UseCookieAuthentication
```

```
UseIdentity
```

```
app.UseMvc();
```

```
}
```

```
}
```

Correct Answer:



```
public class Startup
```

```
{
```

```
...
```

```
public void ConfigureServices(IServiceCollection services)
```

```
{
```

```
services. (JwtBearerDefaults.AuthenticationScheme)
```

```
AddAuthentication
```

```
AddIdentity
```

```
AddAuthorization
```

```
AddOpenIdConnect
```

```
AddJwtBearer
```

```
AddOAuth
```

```
("JwtBearer", jwtBearerOptions =>
```

```
{  
    jwtBearerOptions.TokenValidationParameters = new TokenValidationParameters  
    {  
        ValidateActor = true, ValidateAudience = true, ValidateLifetime = true,  
        ValidateIssuerSigningKey = true, ValidIssuer = Configuration["Tokens:Issuer"],  
        ValidAudience = Configuration["Tokens:Audience"], IssuerSigningKey =  
        new SymmetricSecurityKey(Encoding.UTF8.GetBytes(Configuration["Tokens:SigningKey"])))  
    };  
};
```

```
services.AddMvc();
```

```
}
```

```
public void Configure(IApplicationBuilder app, IHostingEnvironment env)
```

```
{
```

```
...
```

```
app. ();
```

```
UseAuthentication
```

```
UseCookieAuthentication
```

```
UseIdentity
```

```
app.UseMvc();
```

```
}
```

```
}
```



---

### QUESTION 9

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. Upon initialization of the application, you find that exceptions are thrown and handled.

You are required to find out what the state of the application is at the time of the exception being thrown. You should consider selecting Exceptions from the DEBUG menu in Visual Studio 2012. Which of the following actions should you take?

(Choose all that apply.)

- A. You should also consider selecting the User-unhandled check box for Common Language Runtime Exceptions option.
- B. You should also consider selecting the Usehandled check box for Common Language Runtime Exceptions option.
- C. You should also consider de-selecting the User-unhandled check box for Common Language Runtime Exceptions option.
- D. You should also consider de-selecting the User-unhandled check box for Common Language Runtime Exceptions option.

Correct Answer: C

---

### QUESTION 10

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

Correct Answer: B

#### QUESTION 11

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

```
param ([string] $buildConfig)

$env: BuildType = $buildConfig

dotnet publish -c $buildConfig

docker build -t app.
```

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



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

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

NOTE: Each correct selection is worth one point.

Select and Place:

Code segments		Answer area	
aspnetcore	dotnet	FROM Microsoft/	Code segment
nanoserver	{BuildType}\$	WORKDIR /app	
		EXPOSE 80	
{env:BuildType}\$	env:BuildType\$	COPY bin\	Code segment \PublishOutput.
docker		ENTRYPOINT [ "	Code segment ", "WebApplication.dll"]

Correct Answer:

Code segments		Answer area	
		FROM Microsoft/	aspnetcore
nanoserver	{BuildType}\$	WORKDIR /app	
		EXPOSE 80	
{env:BuildType}\$		COPY bin\	env:BuildType\$ \PublishOutput.
docker		ENTRYPOINT [ "	dotnet ", "WebApplication.dll"]

FROM microsoft/aspnetcore

WORKDIR /app

COPY --from=builder /app .

ENTRYPOINT ["dotnet", "myapp.dll"]

Box 1: aspnetcore

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



Box 2: env:BuildType\$

Box 3: dotnet

## QUESTION 12

You are testing an ASP.NET application.

The test plan requires that tests run against the application's business layer.

You need to use the test project template that meets this requirement.

Which template should you use?

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

Correct Answer: C

## QUESTION 13

You are troubleshooting an ASP.NET MVC application that implements ASP.NET SignalR.

You need to identify the fallback transport mechanism order that ASP.NET SignalR will use.

In which order does SignalR attempt to use the transports? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

NOTE: Each correct selection is worth one point.

Select and Place:

Transport types

Forever Frame

Server Sent Events (EvenSource)

Ajax long polling

WebSockets

Answer Area

Order

First transport attempted

Second transport attempted

Third transport attempted

Fourth transport attempted

Transport Type



Correct Answer:

Transport types

Answer Area

Order

First transport attempted

Second transport attempted

Third transport attempted

Fourth transport attempted

Transport Type

Forever Frame

Server Sent Events (EvenSource)

WebSockets

Ajax long polling

#### QUESTION 14

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.

Correct Answer: C

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)

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### QUESTION 15

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.

Correct Answer: C

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