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Developing ASP.NET MVC 4 Web Applications

Microsoft 70-486

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Topic Break Down

Topic	No. of Questions
Topic 1, Case Study 1	14
Topic 2, Case Study 2	16
Topic 3, Case Study 3	10
Topic 4, Mixed Questions	192
Total	232

QUESTION NO: 1

You are developing an ASP.NET MVC application that provides instant messaging capabilities to customers.

You have the following requirements:

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

You need to design the application to meet the requirements.

What should you do?

A. Configure polling from the browser.

B. Implement long-running HTTP requests.

C. Implement WebSockets protocol on the client and the server.

D. Instantiate a MessageChannel object on the client.

ANSWER: D

QUESTION NO: 2

You are creating a new authentication system that uses an HTTP header value.

The existing authentication system must continue to operate normally.

You need to implement the custom authentication.

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

A. Create a class derived from ActionResult and check for a valid HTTP header value in the ExecuteResult method. Change all actions to return this new class.

B. Create an HttpHandler to check fora valid HTTP header value in the ProcessRequest method.

C. Create an HttpModule and check for a valid HTTP header value in the AuthenticateRequest event.

D. Create a class derived from AuthorizeAttribute and check for a valid HTTP header value in the AuthorizeCore method. Change usages of the existing AuthorizeAttribute to use the new class.

ANSWER: C D

QUESTION NO: 3

You are developing an ASP.NET MVC application. The application uses a SQL Server database and a SQL Server login and password.

You need to ensure that the password for the SQL Server login is not stored in plain text.

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

NOTE: Each correct selection is worth one point.

A. Encrypt the connection string by using aspnet_wp.exe.

B. Encrypt the connection string by using aspnet_regiis.exe.

C. Ensure that there is a valid encryptionKey element in the web.config file.

D. Ensure that there is a valid machineKey element in the web.config file.

ANSWER: B C

Explanation:

References:

https://weblogs.asp.net/owscott/421063

QUESTION NO: 4

You are developing an ASP.NET MVC application that uses forms authentication against a third-party database.

You need to authenticate the users.

Which code segment should you use?

A. Option A

B. Option B

C. Option C

D. Option D

ANSWER: D

Explanation:

ASP.NET membership is designed to enable you to easily use a number of different membership providers for your ASP.NET applications.

There are two primary reasons for creating a custom membership provider.

▪ You need to store membership information in a data source that is not supported by the membership providers included withthe .NET Framework, such as a FoxPro database, an Oracle database, or other data sources. ▪ You need to manage membership information using a database schema that is different from the database schema used by the providers that ship with the .NET Framework.

To implement a membership provider, you create a class that inherits the MembershipProvider abstract class from the System.Web.Security namespace.

Incorrect:

Not C: Class ProviderBase

The provider model is intended to encapsulate all or part of the functionality of multiple ASP.NET features, such as membership, profiles, and protected configuration. References: https://msdn.microsoft.com/en-us/library/f1kyba5e.aspx

QUESTION NO: 5 - (DRAG DROP)

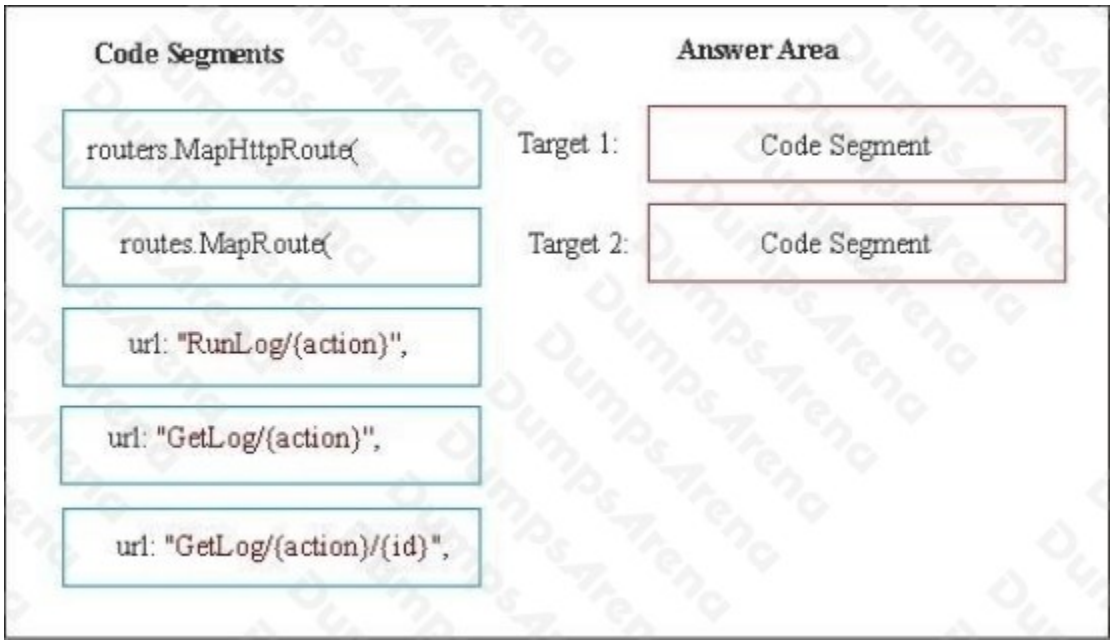
DRAG DROP

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

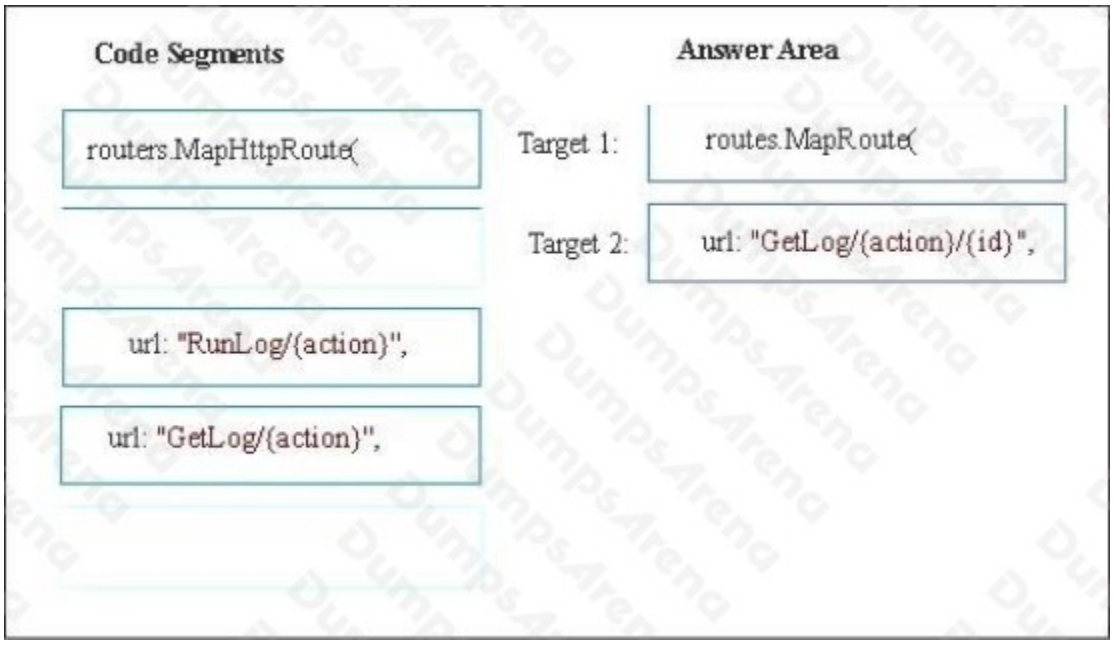
```
Target 1
    name: "GetLog",
    Target 2
    defaults: new
    {
        controller = "RunLog",
        action = "GetLog"
    }
};
```

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

Select and Place:



ANSWER:



Explanation:

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.MapHttpRoute(:

The MapHttpRoute 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/cc668201.aspx

QUESTION NO: 6

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

The application includes a C# type named InsuranceID that represents an insurance policy identifier for a customer. Each instance of InsuranceID is five alphanumeric characters followed by a dash and then four numbers (for example, ab12x2323).

You need to ensure that Controller actions can accept values of type InsuranceID.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Implement the IBinderTypeProviderMetadata interface.

B. Implement the IModelBinder interface.

C. Use a TypeConverter object.

D. Implement the IBindingSourceMetadata interface.

E. Implement the ITypeComp interface.

ANSWER: C

QUESTION NO: 7

You are designing an enterprise-level Windows Communication Foundation (WCF) application. User accounts will migrate from the existing system. The new system must be able to scale to accommodate the increasing load.

You need to ensure that the application can handle large-scale role changes.

Which two approaches can you use for authorization?

A. Resource-based trusted subsystem model

B. Identity-based approach

C. Role-based approach

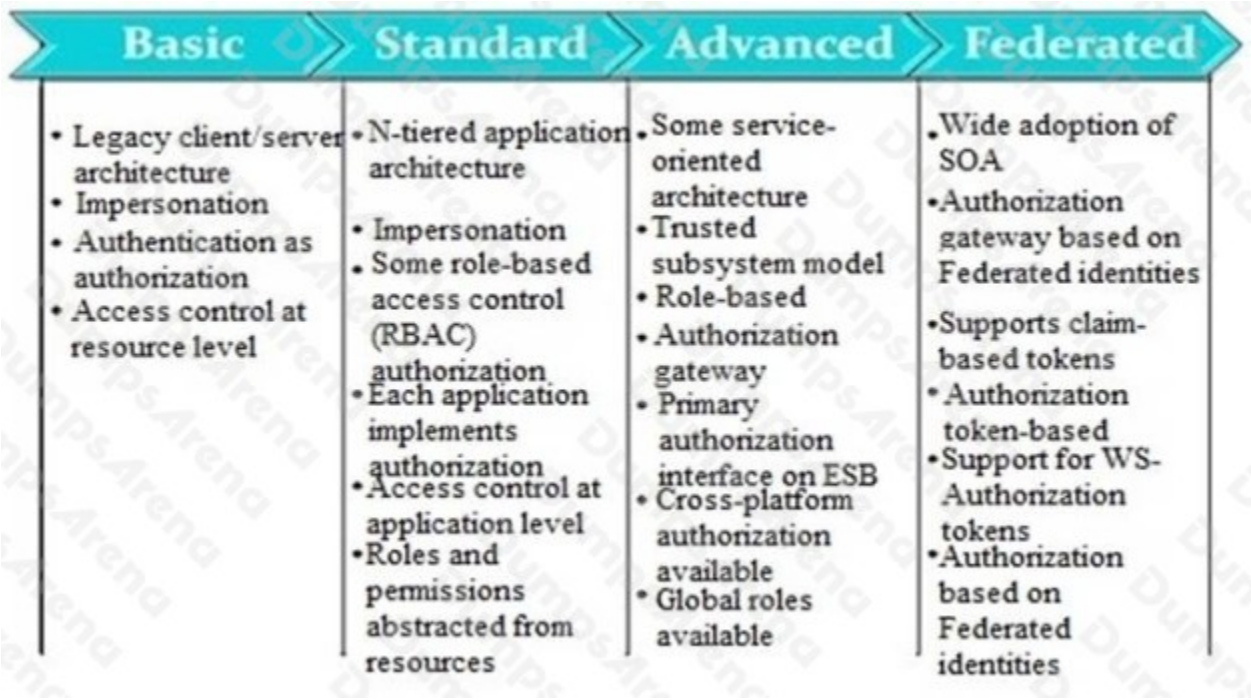
D. Resource-based impersonation/delegation model

ANSWER: B C

Explanation:

Advanced Maturity: Authorization as a Service

In the advanced level of maturity for authorization, role storage and management is consolidated and authorization itself is a service available to any solution that is service-enabled.



The Trusted Subsystems Model

Once authorization is available as an autonomous service, the need for impersonation is eliminated. Instead of assuming the identity of the user, the application uses its own credentials to access services and resources, but it captures the user's identity and passes it as a parameter (or token) to be used for authorization when a request is made. This model is referred to as the trusted subsystem model, because the application acts as a trusted subsystem within the security domain.

QUESTION NO: 8

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

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

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

You need to handle the proprietary data format.

Solution: Add a custom formatter class to the Web API and implement the IInputFormatter interface.

Does the solution meet the goal?

A. Yes

B. No

ANSWER: A

Explanation:

References: https://docs.microsoft.com/en-us/aspnet/core/web-api/advanced/custom-formatters?view=aspnetcore-2.1
https://www.c-sharpcorner.com/article/custom-formatters-in-asp-net-core-mvc-web-api/

QUESTION NO: 9

You are developing an ASP.NET web application.

You need to ensure that the application can securely render user-generated content.

What are two possible ways to achieve this goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

A. Use the following code: var decodedUserInput = Server.UrlDecode(userInput);

B. Use the following WebForms markup:
<%:userInput%>

C. Use the following Razor markup:
@userInput

D. Use the following code:
var decodedUserInput = Server.HtmlDecode(userInput);

ANSWER: A D

Explanation:

Referencs: https://docs.microsoft.com/en-us/dotnet/api/system.web.httpserverutility.urldecode?view=netframework-4.8
https://docs.microsoft.com/en-us/dotnet/api/system.web.httpserverutility.htmldecode?view=netframework-4.8

QUESTION NO: 10

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

ANSWER: A B

QUESTION NO: 11 - (HOTSPOT)

HOTSPOT

You are developing an ASP.NET MVC application.

You need to store membership information in a Microsoft SQL Server database.

How should you configure the membership provider? (To answer, select the appropriate options in the answer area.)
Hot Area:

ANSWER:

Explanation:

References: http://msdn.microsoft.com/en-us/library/system.web.security.sqlmembershipprovider.aspx

QUESTION NO: 12

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

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

You need to save transient information in a secure data store.

Which data store should you use?

A. ASP.NET session state

B. ASP.NET profile properties

C. shared database

D. ASP.NET application state

ANSWER: C

QUESTION NO: 13 - (HOTSPOT)

HOTSPOT

You are developing an ASP.NET MVC application.

Before an action is executed, information about the action must be written to a log. After results are returned, information about the results also must be written to the log.

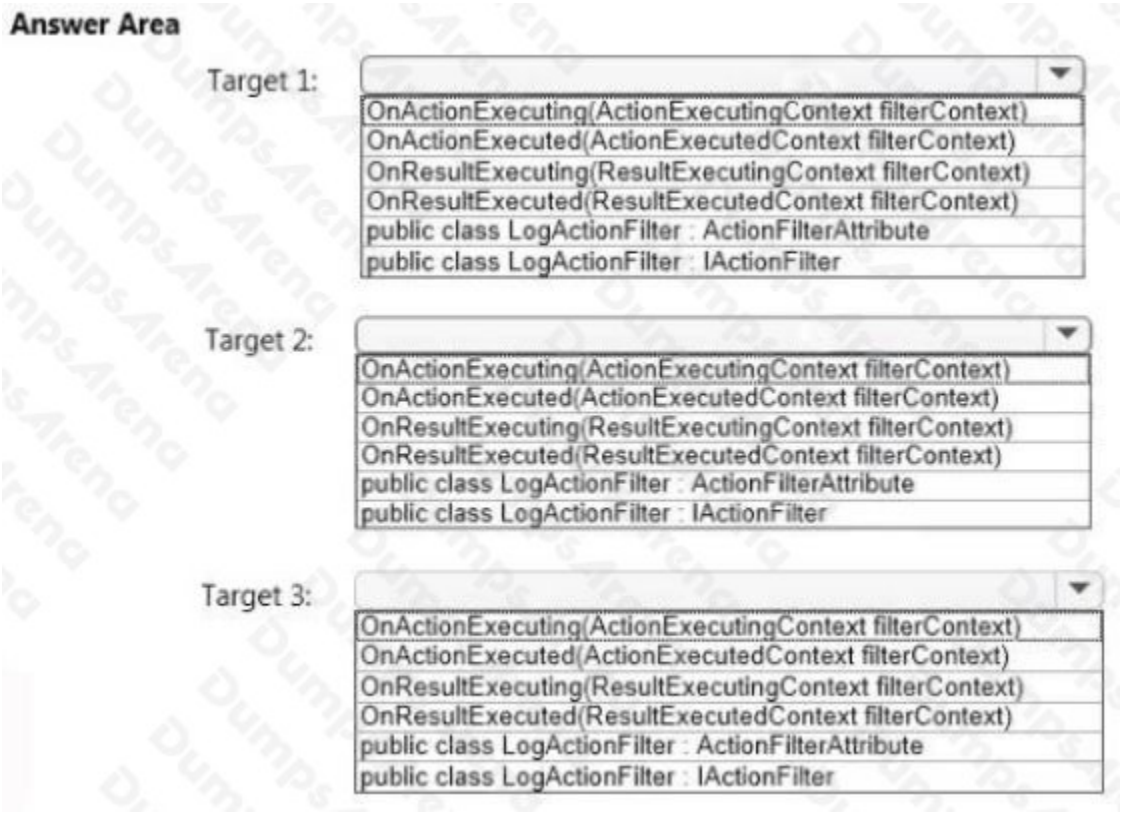
You need to log the actions and results.

You have the following code:

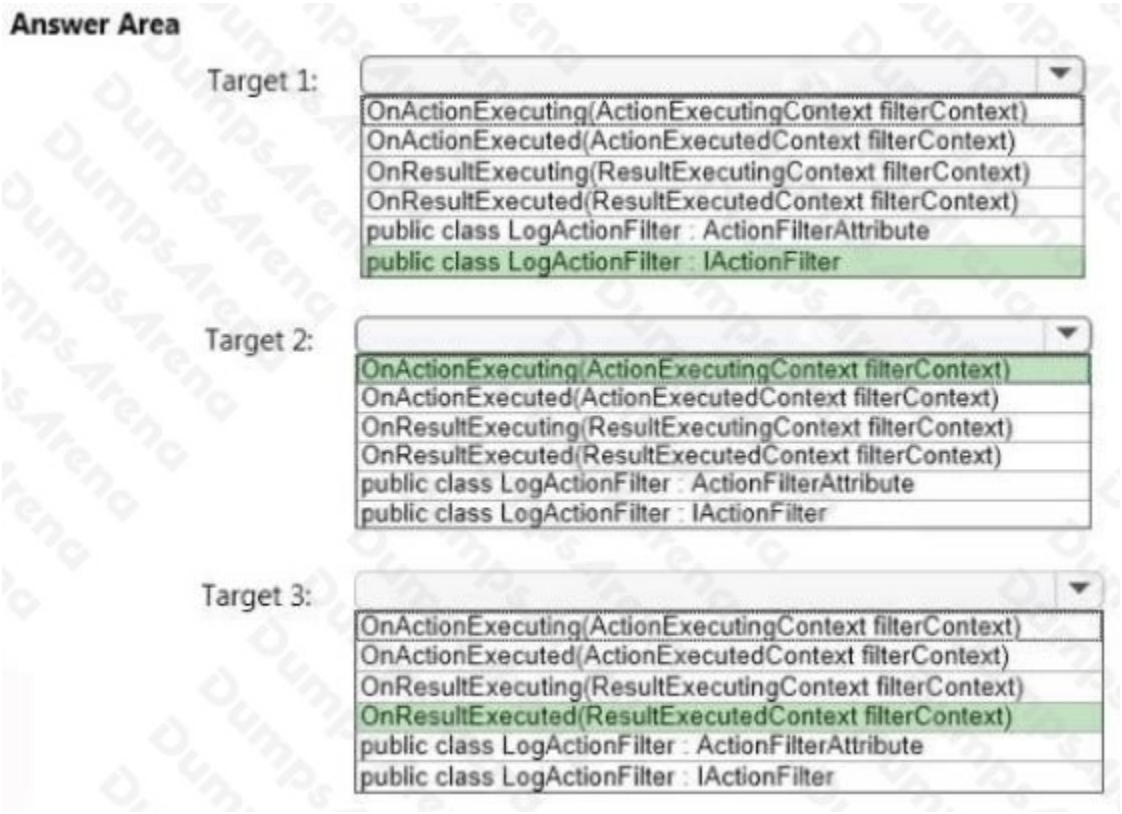
```
Target 1
{
  public override void
  Target 2
  {
    Logger.Log("ActionLog", filterContext.RouteData);
  }
  public override void
  Target 3
  {
    Logger.Log("ResultLog", filterContext.RouteData);
  }
}
```

Which code segments should you include in Target 1, Target 2 and Target 3 to implement the LogActionFilter class? (To answer, select the appropriate option from the drop-down list in the answer area.)
Hot Area:

Answer Area



ANSWER:



Explanation:

Target 1: IActionFilter

MVC3 introduced a completely new pattern to configure filters for controllers and its actions. While injection of filter attributes is still supported itis recommended using this new pattern for filter configuration because it has the advantage to support constructor injection and does not require the InjectAttribute anymore.

First of all you have to create your filter class by implementing one of the filter interfaces e.g. IActionFilter.

Target 2: public void OnActionExecuting(ActionExecutingContext filterContext)

Target 3: public void OnActionExecuted(ActionExecutedContext filterContext)

Reference: Dependency injection for filters https://github.com/ninject/Ninject.Web.Mvc/wiki/Dependency-injection-for-filters

QUESTION NO: 14 - (DRAG DROP)

DRAG DROP

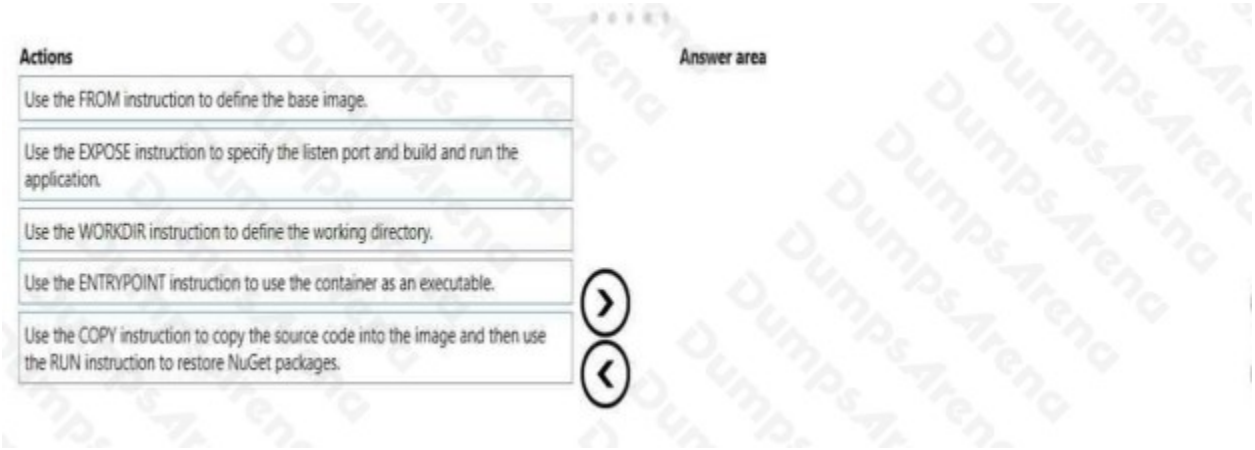
You are developing an ASP.NET Core MVC API microservice that calculates and provides loan rates. The microservice is configured to listen on port 6000.

The microservice must be deployed to a Docker container in Windows. You add a file named Dockerfile to the microservice project.

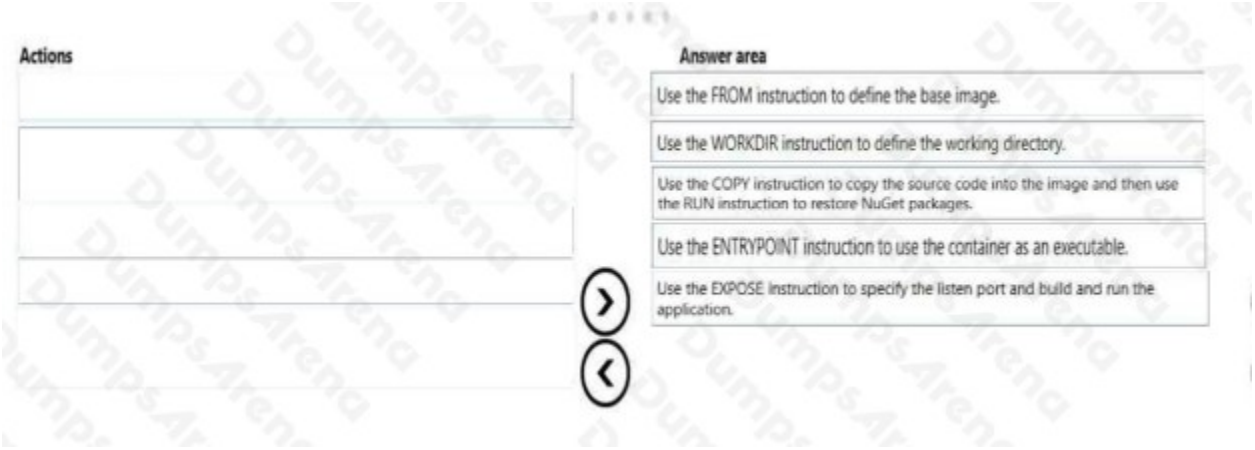
You need to build the Docker image.

In which order should you perform the actions? To answer, move all actions from the list of actions to the answer area and arrange them in the correct order.

Select and Place:



ANSWER:



Explanation:

Step 1: Use the FROM instruction to define the base image.

FROM creates a layer from the ubuntu Docker image.

The first FROM command is an important Docker command, allowing you to pull dependencies from other images.

Step 2: Use the WORKDIR instruction to define the working directory

The WORKDIR instruction sets the working directory for any RUN, CMD, ENTRYPOINT, COPY and ADD instructions that follow it in the Dockerfile.

Step 3: Use the COPY instructions to copy the source code into the image and then use the RUN instruction to restore NuGet packages.

Step 4: Use the ENTRYPOINT instruction to use the container as an executable

Step 5: Use the EXPOSE instruction to specify the listen port and build and run the application.

References: https://docs.docker.com/develop/develop-images/dockerfile_best-practices/

QUESTION NO: 15

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

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

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

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

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

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

Solution: You deploy the application to HTTP.sys.

Does the solution meet the goal?

A. Yes

B. No

ANSWER: A

Explanation:

Reference: https://docs.microsoft.com/en-us/aspnet/core/fundamentals/servers/httpsys?view=aspnetcore-2.1