70-494^{Q&As}

Re for MCSD: Web Applications

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QUESTION 1

You are developing an ASP.NET MVC application that uses forms authentication. The application uses SQL queries that display customer order data.

Logs show there have been several malicious attacks against the servers.

You need to prevent all SQL injection attacks from malicious users against the application.

How should you secure the queries?

A. Check the input against patterns seen in the logs and other records.

B. Escape single quotes and apostrophes on all string-based input parameters.

C. Implement parameterization of all input strings.

D. Filter out prohibited words in the input submitted by the users.

Correct Answer: C

Explanation: SQL Injection Prevention, Defense Option 1: Prepared Statements (Parameterized Queries)

The use of prepared statements (aka parameterized queries) is how all developers should first be taught how to write database queries. They are simple to write, and easier to understand than dynamic queries. Parameterized queries force

the developer to first define all the SQL code, and then pass in each parameter to the query later. This coding style allows the database to distinguish between code and data, regardless of what user input is supplied.

Prepared statements ensure that an attacker is not able to change the intent of a query, even if SQL commands are inserted by an attacker.

Reference: SQL Injection Prevention Cheat Sheet

QUESTION 2

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)
    {
        ...
    }
}
```

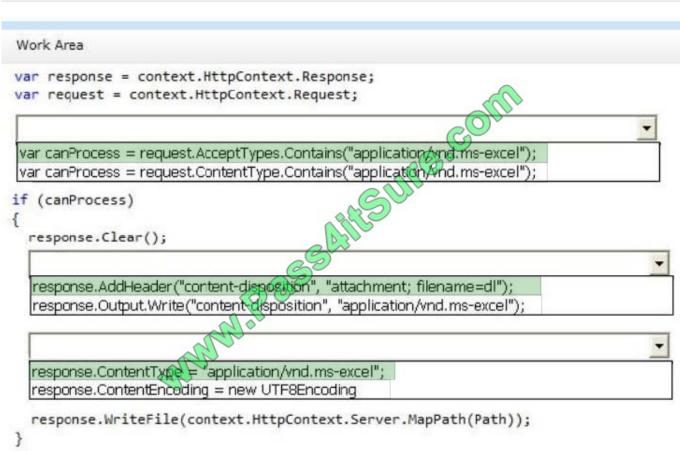You need to enable users to open Excel files.

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

Hot Area:

```
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));
}
```

Correct Answer:

Work Area

```
var response = context.HttpContext.Response;
var request = context.HttpContext.Request;
```
[dropdown ▼]
```
var canProcess = request.AcceptTypes.Contains("application/vnd.ms-excel");
var canProcess = request.ContentType.Contains("application/vnd.ms-excel");
```
```
if (canProcess)
{
    response.Clear();
```
[dropdown ▼]
```
response.AddHeader("content-disposition", "attachment; filename=dl");
response.Output.Write("content-disposition", "application/vnd.ms-excel");
```
[dropdown ▼]
```
response.ContentType = "application/vnd.ms-excel";
response.ContentEncoding = new UTF8Encoding
```
```
    response.WriteFile(context.HttpContext.Server.MapPath(Path));
}
```

QUESTION 3

You are developing a RESTful application by using ASP.NET MVC. The application is a pet management system and implements the following method in a controller for retrieving pet data.

```
public Pet Get(int id)
{
    return new PetRepository().GetPetById(id);
}
```

The method must only accept JSON data using the standard MIME type.

You need to implement a controller that saves pet data and return a properly formatted HTTP/1.1 protocol response.

You have the following code:

```
public Target 1 Post ()
{
    if (Request.Content.Headers.ContentType.MediaType !=

    Target 2)
    {
        throw new HttpResponseException(JsonMessage);
    }
    Pet pet = new Pet ();
    var response = new Target 3  (pet,
     HttpStatusCode.Created);
    var relativePath = Target 4 ;
    response.Headers.Location = new Uri (Request.RequestUri,
        relativePath);
    return response;
}
```

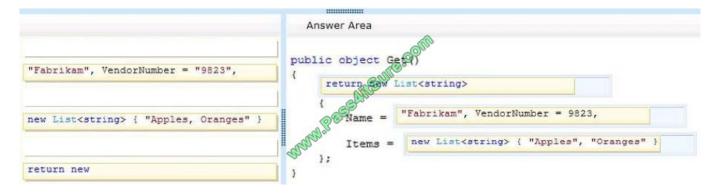Which code segments should you include in Target 1, Target 2, Target 3 and Target 4 to complete the code? {To answer, drag the appropriate code segments to the correct targets in the answer area.

Each code segment may be used once, more than once, or not at all.

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

Select and Place:

Code Segments

- ActionResult
- HttpResponseMessage<Pet>
- HttpMessageContent
- "/api/get/pet/" + pet.Id
- "/pet/get/" + pet.Id
- "/api/pet/" + pet.Id
- "text/json"
- "json"
- "application/json"

Answer Area

Target 1: Code Segment

Target 2: Code Segment

Target 3: Code Segment

Target 4: Code Segment

Correct Answer:

Code Segments

ActionResult
HttpResponseMessage<Pet>
HttpMessageContent
"/api/get/pet/" + pet.Id
"/pet/get/" + pet.Id
"/api/pet/" + pet.Id
"text/json"
"json"
"application/json"

Answer Area

Target 1:   HttpResponseMessage<Pet>

Target 2:   "application/json"

Target 3:   HttpResponseMessage<Pet>

Target 4:   "/api/pet/" + pet.Id

QUESTION 4

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.

The new servers are experiencing significant stress under load of large-scale role changes.

You need to ensure that the application can handle the stress.

Which authorizations should you redesign? (Each correct answer presents a complete solution. Choose all that apply.)

A. Role-based approach

B. Identity-based approach

C. Resource-based trusted subsystem model

D. Resource-based impersonation/delegation model

Correct Answer: AC

QUESTION 5

You are developing an ASP.NET Web API action method.

The action method must return the following JSON in the message body.

{" Name ":" Fabrikam", "Vendor Id": 9823, "Items": ["Apples", "Oranges"] }

You need to return an anonymous object that is serialized to JSON.

What should you do? (To answer, drag the appropriate code segments 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.

Select and Place:

Correct Answer:

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