

# System.Security.Permissions.ReflectionPermissionAttribute Class

```
[ILAsm]
.class public sealed serializable ReflectionPermissionAttribute extends
System.Security.Permissions.CodeAccessSecurityAttribute

[C#]
public sealed class ReflectionPermissionAttribute:
CodeAccessSecurityAttribute
```

## Assembly Info:

- *Name:* mscorlib
- *Public Key:* [00 00 00 00 00 00 00 00 04 00 00 00 00 00 00 00]
- *Version:* 2.0.x.x
- *Attributes:*
  - CLSCompliantAttribute(true)

## Type Attributes:

- AttributeUsageAttribute(AttributeTargets.Assembly | AttributeTargets.Class | AttributeTargets.Struct | AttributeTargets.Constructor | AttributeTargets.Method, AllowMultiple=true, Inherited=false)

## Summary

Used to declaratively specify security actions to control access to non-public types using reflection.

## Inherits From: System.Security.Permissions.CodeAccessSecurityAttribute

**Library:** Reflection

**Thread Safety:** All public static members of this type are safe for multithreaded operations. No instance members are guaranteed to be thread safe.

## Description

[*Note:* The level of access to non-public types and members is specified using the `System.Security.Permissions.ReflectionPermissionAttribute.Flags` property and the `System.Security.Permissions.ReflectionPermissionFlag` enumeration.

The security information declared by a security attribute is stored in the metadata of the attribute target, and is accessed by the system at run-time. Security attributes are used for declarative security only. For imperative security, use the corresponding permission class, `System.Security.Permissions.ReflectionPermission`.

```
1    The allowable System.Security.Permissions.ReflectionPermissionAttribute
2    targets are determined by the System.Security.Permissions.SecurityAction passed
3    to the constructor.
4
5    ]
```

## 6 **Example**

```
7    The following example shows a declarative request for access to non-public members of
8    loaded assemblies. The
9    System.Security.Permissions.SecurityAction.RequestMinimum security action
10   indicates that this is the minimum permission required for the target assembly to be
11   able to execute.
```

```
12
13   [assembly:ReflectionPermissionAttribute(SecurityAction.RequestMinimum,
14   MemberAccess=true)]
```

```
15
16   The following example shows how to demand that the calling code has unrestricted
17   access to non-public types. Demands are typically made to protect methods or classes
18   from malicious code.
```

```
19
20   [ReflectionPermissionAttribute(SecurityAction.Demand, Unrestricted=true)]
```

```
21
```

# ReflectionPermissionAttribute(System.Security.Permissions.SecurityAction) Constructor

```
[ILAsm]
public rtspecialname specialname instance void .ctor(valuetype
System.Security.Permissions.SecurityAction action)

[C#]
public ReflectionPermissionAttribute(SecurityAction action)
```

## Summary

Constructs and initializes a new instance of the System.Security.Permissions.ReflectionPermissionAttribute class with the specified System.Security.Permissions.SecurityAction value.

## Parameters

Parameter	Description
<i>action</i>	A System.Security.Permissions.SecurityAction value.

## Exceptions

Exception	Condition
<b>System.ArgumentException</b>	<i>action</i> is not a valid System.Security.Permissions.SecurityAction value.

## ReflectionPermissionAttribute.CreatePermission() Method

```
[ILAsm]  
.method public hidebysig virtual class System.Security.IPermission  
CreatePermission()  
  
[C#]  
public override IPermission CreatePermission()
```

### Summary

Returns a new `System.Security.Permissions.ReflectionPermission` that contains the security information of the current instance.

### Return Value

A new `System.Security.Permissions.ReflectionPermission` object with the security information of the current instance.

### Description

[*Note:* Applications typically do not call this method; it is intended for use by the system.

The security information described by a security attribute is stored in the metadata of the attribute target, and is accessed by the system at run-time. The system uses the object returned by this method to convert the security information of the current instance into the form stored in metadata.

This method overrides  
`System.Security.Permissions.SecurityAttribute.CreatePermission.`

]

# ReflectionPermissionAttribute.Flags Property

```
[ILAsm]
.property valuetype System.Security.Permissions.ReflectionPermissionFlag
Flags { public hidebysig specialname instance valuetype
System.Security.Permissions.ReflectionPermissionFlag get_Flags() public
hidebysig specialname instance void set_Flags(valuetype
System.Security.Permissions.ReflectionPermissionFlag value) }

[C#]
public ReflectionPermissionFlag Flags { get; set; }
```

## Summary

Gets or sets levels of access to non-public types using reflection.

## Property Value

One or more of the System.Security.Permissions.ReflectionPermissionFlag values.

## Description

[*Note:* To specify multiple System.Security.Permissions.ReflectionPermissionFlag values for a set operation, use the bitwise OR operator.]