

SECURITYMANAGER CHECKSETFACTORY METHOD

http://www.tutorialspoint.com/java/lang/securitymanager_checksetfactory.htm

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Description

The **java.lang.SecurityManager.checkSetFactory** method throws a `SecurityException` if the calling thread is not allowed to set the socket factory used by `ServerSocket` or `Socket`, or the stream handler factory used by `URL`. This method calls `checkPermission` with the `RuntimePermission "setFactory"` permission.

If you override this method, then you should make a call to `super.checkSetFactory` at the point the overridden method would normally throw an exception.

Declaration

Following is the declaration for **java.lang.SecurityManager.checkSetFactory** method

```
public void checkSetFactory()
```

Parameters

- NA

Return Value

This method does not return a value.

Exception

- **SecurityException** -- if the calling thread does not have permission to specify a socket factory or a stream handler factory.

Example

Our examples require that the permissions for each command is blocked. A new policy file was set that allows only the creating and setting of our Security Manager. The file is in `C:/java.policy` and contains the following text:

```
grant {  
    permission java.lang.RuntimePermission "setSecurityManager";  
    permission java.lang.RuntimePermission "createSecurityManager";  
    permission java.lang.RuntimePermission "usePolicy";  
};
```

The following example shows the usage of `lang.SecurityManager.checkSetFactory` method.

```
package com.tutorialspoint;  
  
public class SecurityManagerDemo extends SecurityManager {  
  
    public static void main(String[] args) {  
  
        // set the policy file as the system security policy  
        System.setProperty("java.security.policy", "file:C:/java.policy");  
  
        // create a security manager  
        SecurityManagerDemo sm = new SecurityManagerDemo();  
  
        // set the system security manager  
        System.setSecurityManager(sm);  
  
        // perform the check  
        sm.checkSetFactory();  
    }  
}
```

```
// print a message if we passed the check
System.out.println("Allowed!");
}
```

Let us compile and run the above program, this will produce the following result:

```
Exception in thread "main" java.security.AccessControlException: access denied
(java.lang.RuntimePermission: setFactory)
```

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