

SECURITYMANAGER CHECKMULTICAST METHOD

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

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Description

The **java.lang.SecurityManager.checkMulticast***InetAddress maddr* method throws a **SecurityException** if the calling thread is not allowed to use *join/leave/send/receive* IP multicast. This method calls **checkPermission** with the **java.net.SocketPermission***maddr.getHostAddress(), "accept,connect"*) permission. If you override this method, then you should make a call to **super.checkMulticast** at the point the overridden method would normally throw an exception.

Declaration

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

```
public void checkMulticast(InetAddress maddr)
```

Parameters

- **maddr** -- Internet group address to be used.

Return Value

This method does not return a value.

Exception

- **SecurityException** -- if the caller does not have permission to access members.
- **NullPointerException** -- if the address argument is null.

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.checkMulticast** method.

```
package com.tutorialspoint;  
  
import java.net.InetAddress;  
  
public class SecurityManagerDemo extends SecurityManager {  
  
    public static void main(String[] args) {  
  
        InetAddress add = null;  
        try {  
            add = InetAddress.getLocalHost();  
        } catch (Exception ex) {  
            ex.printStackTrace();  
        }  
  
        // 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.checkMulticast(add);

// 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.net.SocketPermission 192.168.1.6 connect, accept, resolve)
```

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