| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ServicePermission.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| [**PREV CLASS**](http://docs.google.com/javax/security/auth/kerberos/KerberosTicket.html)   NEXT CLASS | [**FRAMES**](http://docs.google.com/index.html?javax/security/auth/kerberos/ServicePermission.html)    [**NO FRAMES**](http://docs.google.com/ServicePermission.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | FIELD | [CONSTR](#3znysh7) | [METHOD](#2et92p0) | DETAIL: FIELD | [CONSTR](#1t3h5sf) | [METHOD](#2s8eyo1) |

## **javax.security.auth.kerberos**

Class ServicePermission

[java.lang.Object](http://docs.google.com/java/lang/Object.html)  
 [java.security.Permission](http://docs.google.com/java/security/Permission.html)  
 **javax.security.auth.kerberos.ServicePermission**

**All Implemented Interfaces:** [Serializable](http://docs.google.com/java/io/Serializable.html), [Guard](http://docs.google.com/java/security/Guard.html)

public final class **ServicePermission**extends [Permission](http://docs.google.com/java/security/Permission.html)implements [Serializable](http://docs.google.com/java/io/Serializable.html)

This class is used to protect Kerberos services and the credentials necessary to access those services. There is a one to one mapping of a service principal and the credentials necessary to access the service. Therefore granting access to a service principal implicitly grants access to the credential necessary to establish a security context with the service principal. This applies regardless of whether the credentials are in a cache or acquired via an exchange with the KDC. The credential can be either a ticket granting ticket, a service ticket or a secret key from a key table.

A ServicePermission contains a service principal name and a list of actions which specify the context the credential can be used within.

The service principal name is the canonical name of the KereberosPrincipal supplying the service, that is the KerberosPrincipal represents a Kerberos service principal. This name is treated in a case sensitive manner. An asterisk may appear by itself, to signify any service principal.

Granting this permission implies that the caller can use a cached credential (TGT, service ticket or secret key) within the context designated by the action. In the case of the TGT, granting this permission also implies that the TGT can be obtained by an Authentication Service exchange.

The possible actions are:

initiate - allow the caller to use the credential to  
 initiate a security context with a service  
 principal.  
  
 accept - allow the caller to use the credential to  
 accept security context as a particular  
 principal.

For example, to specify the permission to access to the TGT to initiate a security context the permission is constructed as follows:

ServicePermission("krbtgt/EXAMPLE.COM@EXAMPLE.COM", "initiate");

To obtain a service ticket to initiate a context with the "host" service the permission is constructed as follows:

ServicePermission("host/foo.example.com@EXAMPLE.COM", "initiate");

For a Kerberized server the action is "accept". For example, the permission necessary to access and use the secret key of the Kerberized "host" service (telnet and the likes) would be constructed as follows:

ServicePermission("host/foo.example.com@EXAMPLE.COM", "accept");

**Since:** 1.4 **See Also:**[Serialized Form](http://docs.google.com/serialized-form.html#javax.security.auth.kerberos.ServicePermission)

| **Constructor Summary** | |
| --- | --- |
| [**ServicePermission**](http://docs.google.com/javax/security/auth/kerberos/ServicePermission.html#ServicePermission(java.lang.String,%20java.lang.String))([String](http://docs.google.com/java/lang/String.html) servicePrincipal, [String](http://docs.google.com/java/lang/String.html) action)            Create a new ServicePermission with the specified servicePrincipal and action. |

| **Method Summary** | |
| --- | --- |
| boolean | [**equals**](http://docs.google.com/javax/security/auth/kerberos/ServicePermission.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) obj)            Checks two ServicePermission objects for equality. |
| [String](http://docs.google.com/java/lang/String.html) | [**getActions**](http://docs.google.com/javax/security/auth/kerberos/ServicePermission.html#getActions())()            Returns the canonical string representation of the actions. |
| int | [**hashCode**](http://docs.google.com/javax/security/auth/kerberos/ServicePermission.html#hashCode())()            Returns the hash code value for this object. |
| boolean | [**implies**](http://docs.google.com/javax/security/auth/kerberos/ServicePermission.html#implies(java.security.Permission))([Permission](http://docs.google.com/java/security/Permission.html) p)            Checks if this Kerberos service permission object "implies" the specified permission. |
| [PermissionCollection](http://docs.google.com/java/security/PermissionCollection.html) | [**newPermissionCollection**](http://docs.google.com/javax/security/auth/kerberos/ServicePermission.html#newPermissionCollection())()            Returns a PermissionCollection object for storing ServicePermission objects. |

| **Methods inherited from class java.security.**[**Permission**](http://docs.google.com/java/security/Permission.html) |
| --- |
| [checkGuard](http://docs.google.com/java/security/Permission.html#checkGuard(java.lang.Object)), [getName](http://docs.google.com/java/security/Permission.html#getName()), [toString](http://docs.google.com/java/security/Permission.html#toString()) |

| **Methods inherited from class java.lang.**[**Object**](http://docs.google.com/java/lang/Object.html) |
| --- |
| [clone](http://docs.google.com/java/lang/Object.html#clone()), [finalize](http://docs.google.com/java/lang/Object.html#finalize()), [getClass](http://docs.google.com/java/lang/Object.html#getClass()), [notify](http://docs.google.com/java/lang/Object.html#notify()), [notifyAll](http://docs.google.com/java/lang/Object.html#notifyAll()), [wait](http://docs.google.com/java/lang/Object.html#wait()), [wait](http://docs.google.com/java/lang/Object.html#wait(long)), [wait](http://docs.google.com/java/lang/Object.html#wait(long,%20int)) |

| **Constructor Detail** |
| --- |

### ServicePermission

public **ServicePermission**([String](http://docs.google.com/java/lang/String.html) servicePrincipal,  
 [String](http://docs.google.com/java/lang/String.html) action)

Create a new ServicePermission with the specified servicePrincipal and action.

**Parameters:**servicePrincipal - the name of the service principal. An asterisk may appear by itself, to signify any service principal.

action - the action string

| **Method Detail** |
| --- |

### implies

public boolean **implies**([Permission](http://docs.google.com/java/security/Permission.html) p)

Checks if this Kerberos service permission object "implies" the specified permission.

If none of the above are true, implies returns false.

**Specified by:**[implies](http://docs.google.com/java/security/Permission.html#implies(java.security.Permission)) in class [Permission](http://docs.google.com/java/security/Permission.html) **Parameters:**p - the permission to check against. **Returns:**true if the specified permission is implied by this object, false if not.

### equals

public boolean **equals**([Object](http://docs.google.com/java/lang/Object.html) obj)

Checks two ServicePermission objects for equality.

**Specified by:**[equals](http://docs.google.com/java/security/Permission.html#equals(java.lang.Object)) in class [Permission](http://docs.google.com/java/security/Permission.html) **Parameters:**obj - the object to test for equality with this object. **Returns:**true if *obj* is a ServicePermission, and has the same service principal, and actions as this ServicePermission object.**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### hashCode

public int **hashCode**()

Returns the hash code value for this object.

**Specified by:**[hashCode](http://docs.google.com/java/security/Permission.html#hashCode()) in class [Permission](http://docs.google.com/java/security/Permission.html) **Returns:**a hash code value for this object.**See Also:**[Object.equals(java.lang.Object)](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### getActions

public [String](http://docs.google.com/java/lang/String.html) **getActions**()

Returns the canonical string representation of the actions. Always returns present actions in the following order: initiate, accept.

**Specified by:**[getActions](http://docs.google.com/java/security/Permission.html#getActions()) in class [Permission](http://docs.google.com/java/security/Permission.html) **Returns:**the actions of this Permission.

### newPermissionCollection

public [PermissionCollection](http://docs.google.com/java/security/PermissionCollection.html) **newPermissionCollection**()

Returns a PermissionCollection object for storing ServicePermission objects.

ServicePermission objects must be stored in a manner that allows them to be inserted into the collection in any order, but that also enables the PermissionCollection implies method to be implemented in an efficient (and consistent) manner.

**Overrides:**[newPermissionCollection](http://docs.google.com/java/security/Permission.html#newPermissionCollection()) in class [Permission](http://docs.google.com/java/security/Permission.html) **Returns:**a new PermissionCollection object suitable for storing ServicePermissions.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/ServicePermission.html) | [**Tree**](http://docs.google.com/package-tree.html) | [**Deprecated**](http://docs.google.com/deprecated-list.html) | [**Index**](http://docs.google.com/index-files/index-1.html) | [**Help**](http://docs.google.com/help-doc.html) | | --- | --- | --- | --- | --- | --- | --- | --- | | | ***Java™ Platform***  ***Standard Ed. 6*** |
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[Submit a bug or feature](http://bugs.sun.com/services/bugreport/index.jsp)

For further API reference and developer documentation, see [Java SE Developer Documentation](http://docs.google.com/webnotes/devdocs-vs-specs.html). That documentation contains more detailed, developer-targeted descriptions, with conceptual overviews, definitions of terms, workarounds, and working code examples.

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