| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/KerberosPrincipal.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/KerberosKey.html)   [**NEXT CLASS**](http://docs.google.com/javax/security/auth/kerberos/KerberosTicket.html) | [**FRAMES**](http://docs.google.com/index.html?javax/security/auth/kerberos/KerberosPrincipal.html)    [**NO FRAMES**](http://docs.google.com/KerberosPrincipal.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
| SUMMARY: NESTED | [FIELD](#3znysh7) | [CONSTR](#2et92p0) | [METHOD](#tyjcwt) | DETAIL: [FIELD](#1t3h5sf) | [CONSTR](#35nkun2) | [METHOD](#2jxsxqh) |

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

Class KerberosPrincipal

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

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

public final class **KerberosPrincipal**extends [Object](http://docs.google.com/java/lang/Object.html)implements [Principal](http://docs.google.com/java/security/Principal.html), [Serializable](http://docs.google.com/java/io/Serializable.html)

This class encapsulates a Kerberos principal.

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

| **Field Summary** | |
| --- | --- |
| static int | [**KRB\_NT\_PRINCIPAL**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#KRB_NT_PRINCIPAL)            user principal name type. |
| static int | [**KRB\_NT\_SRV\_HST**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#KRB_NT_SRV_HST)            service with host name as instance (telnet, rcommands) name type. |
| static int | [**KRB\_NT\_SRV\_INST**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#KRB_NT_SRV_INST)            service and other unique instance (krbtgt) name type. |
| static int | [**KRB\_NT\_SRV\_XHST**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#KRB_NT_SRV_XHST)            service with host as remaining components name type. |
| static int | [**KRB\_NT\_UID**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#KRB_NT_UID)            unique ID name type. |
| static int | [**KRB\_NT\_UNKNOWN**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#KRB_NT_UNKNOWN)            unknown name type. |

| **Constructor Summary** | |
| --- | --- |
| [**KerberosPrincipal**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#KerberosPrincipal(java.lang.String))([String](http://docs.google.com/java/lang/String.html) name)            Constructs a KerberosPrincipal from the provided string input. |
| [**KerberosPrincipal**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#KerberosPrincipal(java.lang.String,%20int))([String](http://docs.google.com/java/lang/String.html) name, int nameType)            Constructs a KerberosPrincipal from the provided string and name type input. |

| **Method Summary** | |
| --- | --- |
| boolean | [**equals**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#equals(java.lang.Object))([Object](http://docs.google.com/java/lang/Object.html) other)            Compares the specified Object with this Principal for equality. |
| [String](http://docs.google.com/java/lang/String.html) | [**getName**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#getName())()            The returned string corresponds to the single-string representation of a Kerberos Principal name as specified in Section 2.1 of [RFC 1964](http://www.ietf.org/rfc/rfc1964.txt). |
| int | [**getNameType**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#getNameType())()            Returns the name type of the KerberosPrincipal. |
| [String](http://docs.google.com/java/lang/String.html) | [**getRealm**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#getRealm())()            Returns the realm component of this Kerberos principal. |
| int | [**hashCode**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#hashCode())()            Returns a hashcode for this principal. |
| [String](http://docs.google.com/java/lang/String.html) | [**toString**](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#toString())()            Returns a string representation of the object. |

| **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)) |

| **Field Detail** |
| --- |

### KRB\_NT\_UNKNOWN

public static final int **KRB\_NT\_UNKNOWN**

unknown name type.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.security.auth.kerberos.KerberosPrincipal.KRB_NT_UNKNOWN)

### KRB\_NT\_PRINCIPAL

public static final int **KRB\_NT\_PRINCIPAL**

user principal name type.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.security.auth.kerberos.KerberosPrincipal.KRB_NT_PRINCIPAL)

### KRB\_NT\_SRV\_INST

public static final int **KRB\_NT\_SRV\_INST**

service and other unique instance (krbtgt) name type.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.security.auth.kerberos.KerberosPrincipal.KRB_NT_SRV_INST)

### KRB\_NT\_SRV\_HST

public static final int **KRB\_NT\_SRV\_HST**

service with host name as instance (telnet, rcommands) name type.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.security.auth.kerberos.KerberosPrincipal.KRB_NT_SRV_HST)

### KRB\_NT\_SRV\_XHST

public static final int **KRB\_NT\_SRV\_XHST**

service with host as remaining components name type.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.security.auth.kerberos.KerberosPrincipal.KRB_NT_SRV_XHST)

### KRB\_NT\_UID

public static final int **KRB\_NT\_UID**

unique ID name type.

**See Also:**[Constant Field Values](http://docs.google.com/constant-values.html#javax.security.auth.kerberos.KerberosPrincipal.KRB_NT_UID)

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

### KerberosPrincipal

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

Constructs a KerberosPrincipal from the provided string input. The name type for this principal defaults to [KRB\_NT\_PRINCIPAL](http://docs.google.com/javax/security/auth/kerberos/KerberosPrincipal.html#KRB_NT_PRINCIPAL) This string is assumed to contain a name in the format that is specified in Section 2.1.1. (Kerberos Principal Name Form) of  [RFC 1964](http://www.ietf.org/rfc/rfc1964.txt)  (for example, *duke@FOO.COM*, where *duke* represents a principal, and *FOO.COM* represents a realm).

If the input name does not contain a realm, the default realm is used. The default realm can be specified either in a Kerberos configuration file or via the java.security.krb5.realm system property. For more information,  [Kerberos Requirements](http://docs.google.com/technotes/guides/security/jgss/tutorials/index.html)

**Parameters:**name - the principal name **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if name is improperly formatted, if name is null, or if name does not contain the realm to use and the default realm is not specified in either a Kerberos configuration file or via the java.security.krb5.realm system property.

### KerberosPrincipal

public **KerberosPrincipal**([String](http://docs.google.com/java/lang/String.html) name,  
 int nameType)

Constructs a KerberosPrincipal from the provided string and name type input. The string is assumed to contain a name in the format that is specified in Section 2.1 (Mandatory Name Forms) of [RFC 1964](http://www.ietf.org/rfc/rfc1964.txt). Valid name types are specified in Section 7.2 (Principal Names) of [RFC 1510](http://www.ietf.org/rfc/rfc1510.txt). The input name must be consistent with the provided name type. (for example, *duke@FOO.COM*, is a valid input string for the name type, KRB\_NT\_PRINCIPAL where *duke* represents a principal, and *FOO.COM* represents a realm).

If the input name does not contain a realm, the default realm is used. The default realm can be specified either in a Kerberos configuration file or via the java.security.krb5.realm system property. For more information, see  [Kerberos Requirements](http://docs.google.com/technotes/guides/security/jgss/tutorials/index.html).

**Parameters:**name - the principal namenameType - the name type of the principal **Throws:** [IllegalArgumentException](http://docs.google.com/java/lang/IllegalArgumentException.html) - if name is improperly formatted, if name is null, if the nameType is not supported, or if name does not contain the realm to use and the default realm is not specified in either a Kerberos configuration file or via the java.security.krb5.realm system property.

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

### getRealm

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

Returns the realm component of this Kerberos principal.

**Returns:**the realm component of this Kerberos principal.

### hashCode

public int **hashCode**()

Returns a hashcode for this principal. The hash code is defined to be the result of the following calculation:

hashCode = getName().hashCode();

**Specified by:**[hashCode](http://docs.google.com/java/security/Principal.html#hashCode()) in interface [Principal](http://docs.google.com/java/security/Principal.html)**Overrides:**[hashCode](http://docs.google.com/java/lang/Object.html#hashCode()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a hashCode() for the KerberosPrincipal**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)

### equals

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

Compares the specified Object with this Principal for equality. Returns true if the given object is also a KerberosPrincipal and the two KerberosPrincipal instances are equivalent. More formally two KerberosPrincipal instances are equal if the values returned by getName() are equal and the values returned by getNameType() are equal.

**Specified by:**[equals](http://docs.google.com/java/security/Principal.html#equals(java.lang.Object)) in interface [Principal](http://docs.google.com/java/security/Principal.html)**Overrides:**[equals](http://docs.google.com/java/lang/Object.html#equals(java.lang.Object)) in class [Object](http://docs.google.com/java/lang/Object.html) **Parameters:**other - the Object to compare to **Returns:**true if the Object passed in represents the same principal as this one, false otherwise.**See Also:**[Object.hashCode()](http://docs.google.com/java/lang/Object.html#hashCode()), [Hashtable](http://docs.google.com/java/util/Hashtable.html)

### getName

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

The returned string corresponds to the single-string representation of a Kerberos Principal name as specified in Section 2.1 of [RFC 1964](http://www.ietf.org/rfc/rfc1964.txt).

**Specified by:**[getName](http://docs.google.com/java/security/Principal.html#getName()) in interface [Principal](http://docs.google.com/java/security/Principal.html) **Returns:**the principal name.

### getNameType

public int **getNameType**()

Returns the name type of the KerberosPrincipal. Valid name types are specified in Section 7.2 of  [RFC1510](http://www.ietf.org/rfc/rfc1510.txt).

**Returns:**the name type.

### toString

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

**Description copied from class:** [**Object**](http://docs.google.com/java/lang/Object.html#toString()) Returns a string representation of the object. In general, the toString method returns a string that "textually represents" this object. The result should be a concise but informative representation that is easy for a person to read. It is recommended that all subclasses override this method.

The toString method for class Object returns a string consisting of the name of the class of which the object is an instance, the at-sign character `@', and the unsigned hexadecimal representation of the hash code of the object. In other words, this method returns a string equal to the value of:

getClass().getName() + '@' + Integer.toHexString(hashCode())

**Specified by:**[toString](http://docs.google.com/java/security/Principal.html#toString()) in interface [Principal](http://docs.google.com/java/security/Principal.html)**Overrides:**[toString](http://docs.google.com/java/lang/Object.html#toString()) in class [Object](http://docs.google.com/java/lang/Object.html) **Returns:**a string representation of the object.

| | [**Overview**](http://docs.google.com/overview-summary.html) | [**Package**](http://docs.google.com/package-summary.html) | **Class** | [**Use**](http://docs.google.com/class-use/KerberosPrincipal.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/KerberosKey.html)   [**NEXT CLASS**](http://docs.google.com/javax/security/auth/kerberos/KerberosTicket.html) | [**FRAMES**](http://docs.google.com/index.html?javax/security/auth/kerberos/KerberosPrincipal.html)    [**NO FRAMES**](http://docs.google.com/KerberosPrincipal.html)     [**All Classes**](http://docs.google.com/allclasses-noframe.html) |
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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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