**System.getProperties**

public static [Properties](about:blank) **getProperties**()

Determines the current system properties.

First, if there is a security manager, its checkPropertiesAccess method is called with no arguments. This may result in a security exception.

The current set of system properties for use by the [getProperty(String)](about:blank) method is returned as a Properties object. If there is no current set of system properties, a set of system properties is first created and initialized. This set of system properties always includes values for the following keys:

|  |  |
| --- | --- |
| **Key** | **Description of Associated Value** |
| java.version | Java Runtime Environment version |
| java.vendor | Java Runtime Environment vendor |
| java.vendor.url | Java vendor URL |
| java.home | Java installation directory |
| java.vm.specification.version | Java Virtual Machine specification version |
| java.vm.specification.vendor | Java Virtual Machine specification vendor |
| java.vm.specification.name | Java Virtual Machine specification name |
| java.vm.version | Java Virtual Machine implementation version |
| java.vm.vendor | Java Virtual Machine implementation vendor |
| java.vm.name | Java Virtual Machine implementation name |
| java.specification.version | Java Runtime Environment specification version |
| java.specification.vendor | Java Runtime Environment specification vendor |
| java.specification.name | Java Runtime Environment specification name |
| java.class.version | Java class format version number |
| java.class.path | Java class path |
| java.library.path | List of paths to search when loading libraries |
| java.io.tmpdir | Default temp file path |
| java.compiler | Name of JIT compiler to use |
| java.ext.dirs | Path of extension directory or directories |
| os.name | Operating system name |
| os.arch | Operating system architecture |
| os.version | Operating system version |
| file.separator | File separator ("/" on UNIX) |
| path.separator | Path separator (":" on UNIX) |
| line.separator | Line separator ("\n" on UNIX) |
| user.name | User's account name |
| user.home | User's home directory |
| user.dir | User's current working directory |

Multiple paths in a system property value are separated by the path separator character of the platform.

Note that even if the security manager does not permit the getProperties operation, it may choose to permit the [getProperty(String)](http://dai.itam.mx/java/jdk-6/api/java/lang/System.html#getProperty(java.lang.String)) operation.

**Returns:**

the system properties

**Throws:**

[SecurityException](http://dai.itam.mx/java/jdk-6/api/java/lang/SecurityException.html) - if a security manager exists and its checkPropertiesAccess method doesn't allow access to the system properties.

**See Also:**

[setProperties(java.util.Properties)](http://dai.itam.mx/java/jdk-6/api/java/lang/System.html#setProperties(java.util.Properties)), [SecurityException](http://dai.itam.mx/java/jdk-6/api/java/lang/SecurityException.html), [SecurityManager.checkPropertiesAccess()](http://dai.itam.mx/java/jdk-6/api/java/lang/SecurityManager.html#checkPropertiesAccess()), [Properties](http://dai.itam.mx/java/jdk-6/api/java/util/Properties.html)