

What's the risk? Are you at risk? How can you fix it?

Using pseudorandom number generators (PRNGs) is security-sensitive. For example, it has led in the past to the following vulnerabilities:

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- CVE-2013-6386
- CVE-2006-3419
- CVE-2008-4102

When software generates predictable values in a context requiring unpredictability, it may be possible for an attacker to guess the next value that will be generated, and use this guess to impersonate another user or access sensitive information.

As the java.util.Random class relies on a pseudorandom number generator, this class and relating java.lang.Math.random() method should not be used for security-critical applications or for protecting sensitive data. In such context, the java.security.SecureRandom class which relies on a cryptographically strong random number generator (RNG) should be used in place.

Activity:

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