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Message-ID: <4F21DF82.9090902@redhat.com>
 Date: Thu, 26 Jan 2012 16:19:30 -0700
 From: Kurt Seifried <kseifried@...hat.com>
 To: oss-security@...ts.openwall.com
 Subject: CVE Request: Debian (others?) openssh-server: Forced Command handling
 leaks private information to ssh clients

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=657445>

=====
 From: Bjoern Buerger <bbu@...gutronix.de>
 To: Debian Bug Tracking System <submit@...s.debian.org>
 Subject: openssh-server: Forced Command handling leaks private
 information to ssh
 clients
 Date: Thu, 26 Jan 2012 11:46:18 +0100

Package: openssh-server
 Version: 1:5.5p1-6+squeeze1
 Severity: normal

The handling of multiple forced commands in ~/.ssh/authorized key leaks information about other configured forced commands to the user. This affects tools like gitolite, which makes heavy use of forced commands (For gitolite, this bug means: A user can obtain some or all usernames with access to the same gitolite setup by just using the verbose switch of his ssh client, which is a really nasty thing).

Example:

User "bbu" on machine "ptx" has three configured forced commands for keys test{1,2,3}_rsa.pub:

```
command="/usr/bin/first_command" ssh-rsa [...third_key...]
command="/usr/bin/second_command" ssh-rsa [...second_key...]
command="/usr/bin/third_command" ssh-rsa [...third_key...]
```

Now, if the user of test1_rsa.pub uses the "-v" switch of his ssh client, he gets just his command:

```
foo@bar:~/ssh_debug$ ssh -i test1_rsa -v bbu@ptx 2>&1 | grep Forced\
command
debug1: Remote: Forced command: /usr/bin/first_command
debug1: Remote: Forced command: /usr/bin/first_command
```

but the user of test2_rsa.pub sees two commands:

```
foo@bar:~/ssh_debug$ ssh -i test2_rsa -v bbu@ptx 2>&1 | grep Forced\
command
debug1: Remote: Forced command: /usr/bin/first_command
debug1: Remote: Forced command: /usr/bin/second_command
debug1: Remote: Forced command: /usr/bin/first_command
debug1: Remote: Forced command: /usr/bin/second_command
```

and for user of test3_rsa.pub:

```
bbu@...ra:~/ssh_debug$ ssh -i test3_rsa -v bbu@ptx 2>&1 | grep Forced\
command
debug1: Remote: Forced command: /usr/bin/first_command
debug1: Remote: Forced command: /usr/bin/second_command
debug1: Remote: Forced command: /usr/bin/third_command
debug1: Remote: Forced command: /usr/bin/first_command
debug1: Remote: Forced command: /usr/bin/second_command
```

```
debug1: Remote: Forced command: /usr/bin/third_command  
=====
```

I have confirmed that this works exactly as advertised on Debian 6. I have confirmed that RHEL/Fedora are not affected (you only get shown the command for your specific SSH key).

So Debian is definitely affected, but I am concerned others may be as well (is this Debian specific or does it affect all users of that version of OpenSSH?). I suggest you test this on your own distributions as well.

--

Kurt Seifried Red Hat Security Response Team (SRT)

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