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Message-ID: <4F21E032.1040608@redhat.com>  
 Date: Thu, 26 Jan 2012 16:22:26 -0700  
 From: Kurt Seifried <kseifried@...hat.com>  
 To: oss-security@...ts.openwall.com  
 Subject: Re: CVE Request: Debian (others?) openssh-server:  
 Forced Command handling leaks private information to ssh clients

On 01/26/2012 04:19 PM, Kurt Seifried wrote:

> <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.
```

Please use CVE-2012-0814 for this issue. Also please let me know if other Linux distributions are affected!

--

Kurt Seifried Red Hat Security Response Team (SRT)

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