
Subject: sudo audit log

Posted by [zoom](#) on Tue, 25 Nov 2008 14:49:24 GMT

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Yesterday I decided to run yum update in one of my containers. After successfully updating the container I noticed a strange message when using the sudo command.

```
audit_log_user_command(): Connection refused
```

This doesn't prevent me from making use of the sudo command to perform root level duties, however I'm wonder why I'm getting this message. After searching around on the web I found something about the message indicating that audit logging isn't enabled in the kernel.

Container: CentOS release 5.2 (Final)

Host: RHEL 5 (openvz kernel)

OpenVZ Kernel: 2.6.18-92.1.1.el5.028stab057.2

sudo: sudo-1.6.8p12-12.el5

How can I determine if audit logging is enabled? Does the latest OpenVZ kernel have it enabled?

Thanks.

Subject: Re: sudo audit log

Posted by [maratrus](#) on Tue, 25 Nov 2008 15:32:24 GMT

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Hello,

probably that after you've updated the VE some audit* packet has installed (please check it).

But it might be that a particular functionality is prohibited inside VE so you get such message. You can strace "sudo" command to find out the syscall that is fails.

http://wiki.openvz.org/Stracing_a_program

Subject: Re: sudo audit log

Posted by [zoom](#) on Tue, 25 Nov 2008 16:09:10 GMT

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I was thinking the same thing, however the audit libs are the same for a container which doesn't get the message.

```
audit-libs-python-1.6.5-9.el5
```

```
audit-libs-1.6.5-9.el5
```

I did notice that the host system does contain an audit.log in /var/log/audit. I tried creating a similar directory in the /var/log directory of the container with the same permissions, still no luck.

Looking at the strace it seems that it can't find it "Illegal seek", however I'm not 100% sure. But as you can see the "chmod" does get executed for the sudo command "sudo chmod 777 htaccess.tmp"

```
fcntl64(4, F_GETFL)          = 0x8002 (flags O_RDWR|O_LARGEFILE)
fstat64(4, {st_mode=S_IFCHR|0620, st_rdev=makedev(136, 0), ...}) = 0
mmap2(NULL, 4096, PROT_READ|PROT_WRITE, MAP_PRIVATE|MAP_ANONYMOUS, -1, 0) =
0xb7fc2000
_llseek(4, 0, 0xbfed224, SEEK_CUR)  = -1 ESPIPE (Illegal seek)
write(4, "audit_log_user_command(): Connec"..., 45) = 45
close(4)                          = 0
munmap(0xb7fc2000, 4096)           = 0
execve("/bin/chmod", ["chmod"..., "777"..., "htaccess.tmp"...], [/* 24 vars */]) = 0
```

I did notice that the host is running a audit daemon. Could this be what is missing in the container?

```
root    8436 0.0 0.0 83916 824 ?    S<sl Sep29  0:22 auditd
```

Subject: Re: sudo audit log
Posted by [maratrus](#) on Tue, 25 Nov 2008 16:11:44 GMT
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Hello,

could you please show the full output.

Subject: Re: sudo audit log
Posted by [zoom](#) on Tue, 25 Nov 2008 16:29:39 GMT
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Sure.

Please see the attached file.

File Attachments

1) [sudo-strace.txt](#), downloaded 555 times

Subject: Re: sudo audit log
Posted by [maratrus](#) on Tue, 25 Nov 2008 17:07:23 GMT
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Seems like here is the chain of calls:

```
+-----+
|sudo package:                |
|  audit_logger()             |
|    \                         |
+-----+-----+
|audit package: \             |
|    audit_log_user_command()  |
|    audit_send_user_message() |
|    audit_send()              |
|    \                         |
+-----+-----+
|kernel: \                    |
|  audit_receive_msg():         |
|  ...                          |
|  if (!ve_is_super(skb->owner_env)) |
|    return -ECONNREFUSED       |
|                                |
+-----+-----+
```

So, it is prohibited to use audit inside VE (and sudo is build with audit support).

The patch from

https://bugzilla.redhat.com/show_bug.cgi?id=401201

should resolve this issue (but the problems are different)

Subject: Re: sudo audit log
Posted by [zoom](#) on Tue, 25 Nov 2008 17:22:03 GMT
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maratrus,

Thanks for taking the time to track this one down.

Much Appreciated!!
