

cc:ing the containers list for tracking purposes...

On 02/03/2011 07:56 AM, Nicolas Bourbaki wrote:

> Hi,  
>  
> I've got a problem with LXC, CIFS and Kerberos. Sorry if you're not  
> the person concerned by this but I've seen you submitted a patch about  
> LXC and CIFS mounts recently  
>  
>  
> Here is my bug report :  
>  
>  
> -----  
> [1.] Summary  
> Kerberos credential are taken from the host context when using  
> mount.cifs in an lxc container

Yeah, not surprised there's more to do there. I only had one very simple test case, and I stopped when I made that work.

I'm happy to fix it, the question is how do I set up a kerberos authentication test case? (I'm not very experienced at setting up samba, I'm more a developer than a sysadmin.) A quick rummage found:

<https://help.ubuntu.com/community/Samba/Kerberos>

Which presumably explains it. I'll go read that...

> [2.] Description  
> When using kerberos as system authentication for CIFS, mount fails in  
> an LXC container. We need to have the kerberos ticket and keyutils in  
> the host to have it work. So it seems that there is an isolation  
> problem for this particular configuration.  
>  
> [2.1] Scenario 1: Host is minimalist, container fully configured  
> (kerberos, CIFS, credentials, ...)  
> #mount.cifs '//some-server/some-directory' /mnt -o  
> iocharset=utf8,rw,sec=krb5i,user=foo  
> mount error(2): No such file or directory  
>  
> [2.2] Scenario 2: Host has keyutils package (ubuntu) installed but no  
> credentials, container fully configured (kerberos, CIFS, credentials,  
> ...)

```
> #mount.cifs '//some-server/some-directory' /mnt -o
> iocharset=utf8,rw,sec=krb5i,user=foo
> mount error(126): Required key not available
>
> [2.3] Scenario 3: Host has keyutils package (ubuntu) installed and
> kerberos credentials, container fully configured (kerberos, CIFS,
> credentials, ...)
> #mount.cifs '//some-server/some-directory' /mnt -o
> iocharset=utf8,rw,sec=krb5i,user=foo
> Succes !
```

Should be fairly straightforward to fix, I just need to set up the test case...

```
> -----
> lxc version: 0.7.2
> -----
> ii  krb5-config                2.2
>     Configuration files for Kerberos Version 5
> ii  libgssapi-krb5-2           1.8.1+dfsg-5ubuntu0.2
>     MIT Kerberos runtime libraries - krb5 GSS-API Mechanism
> ii  libkrb5-26-heimdal         1.4.0~git20100605.dfsg.1-2
>     Heimdal Kerberos - libraries
> ii  libkrb5-3                  1.8.1+dfsg-5ubuntu0.2
>     MIT Kerberos runtime libraries
> ii  libkrb5support0            1.8.1+dfsg-5ubuntu0.2
>     MIT Kerberos runtime libraries - Support library
> ii  cifs-utils                  2:4.5-2
>     Common Internet File System utilities
```

Ok.

Thanks,

Rob

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Containers mailing list  
Containers@lists.linux-foundation.org  
<https://lists.linux-foundation.org/mailman/listinfo/containers>

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Subject: Re: PROBLEM: LXC Container, CIFS and Kerberos isolation issue  
Posted by [Nicolas Bourbaki](#) on Fri, 04 Feb 2011 08:37:26 GMT  
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2011/2/3 Rob Landley <[rlandley@parallels.com](mailto:rlandley@parallels.com)>:  
> cc:ing the containers list for tracking purposes...  
>

I've created an entry in the kernel.org' bugzilla #28122 (I forget that this may have been the proper way to do it). Seem's it more global than I first thank.

>> -----  
-----  
>> [1.] Summary  
>> Kerberos credential are taken from the host context when using  
>> mount.cifs in an lxc container  
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> Yeah, not surprised there's more to do there. I only had one very  
> simple test case, and I stopped when I made that work.  
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> I'm happy to fix it, the question is how do I set up a kerberos  
> authentication test case? (I'm not very experienced at setting up  
> samba, I'm more a developer than a sysadmin.) A quick rummage found:  
>  
> <https://help.ubuntu.com/community/Samba/Kerberos>  
>  
> Which presumably explains it. I'll go read that...

If you have any question in setting it, I may try to help, giving you some of our configuration.

Thanks

Nicolas

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<https://lists.linux-foundation.org/mailman/listinfo/containers>

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Subject: Re: PROBLEM: LXC Container, CIFS and Kerberos isolation issue  
Posted by [Rob Landley](#) on Fri, 04 Feb 2011 20:36:20 GMT  
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On 02/04/2011 02:37 AM, Nicolas Bourbaki wrote:  
> 2011/2/3 Rob Landley <[rlandley@parallels.com](mailto:rlandley@parallels.com)>:  
>> cc:ing the containers list for tracking purposes...  
>>  
>  
> I've created an entry in the kernel.org' bugzilla #28122 (I forget  
> that this may have been the proper way to do it). Seem's it more  
> global than I first thank.

It's nice for tracking purposes, but if you'd put a bug report in there

and hadn't cc'd me, I'd never have seen it.

>> <https://help.ubuntu.com/community/Samba/Kerberos>

>>

>> Which presumably explains it. I'll go read that...

>

> If you have any question in setting it, I may try to help, giving you

> some of our configuration.

Well, it's not quite trivial to set up:

<https://help.ubuntu.com/community/Kerberos>

> All servers that are part of a Kerberos authentication realm should

> be assigned a Fully Qualified Domain Name (FQDN) that is both

> forward- and reverse-resolvable.

But apparently I can fake that with /etc/hosts...

I note that installing "krb5-kdc krb5-admin-server" installed bind 9, an SGML library, and a geoip database. And failed to download 11 packages until I ran "aptitude update" on the lenny test environment.

Setting up krb5-kdc (1.8.3+dfsg-4) ...

krb5kdc: cannot initialize realm KVM - see log file for details

Setting up krb5-admin-server (1.8.3+dfsg-4) ...

kadmind: No such file or directory while initializing, aborting

Yeah, this is probably going to take a while...

Rob

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Containers mailing list

[Containers@lists.linux-foundation.org](mailto:Containers@lists.linux-foundation.org)

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