

BEEM - Android XMPP - Bug #285

Unable to make DNS SRV resolution

07/22/2010 08:01 PM - Frédéric Barthéléry

Status:	Closed	Start date:	07/22/2010
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:	0.1.7	Locale:	
Affected version:	0.1.x		
Description			
On the emulator with android-2.2, Beem cannot make some DNS SRV resolution. Step to reproduce :			
<ul style="list-style-type: none">try to connect beem on a server that needs DNS SRV resolution like gmail.com			

History

#1 - 10/05/2010 11:16 AM - Michael Picher

Not sure if this is related... Openfire server, Android 2.1 & 2.2 on Moto DroidX.

With the following DNS configured:

SRV records for 5222 and 5269 setup properly for domain.com (insert your domain there)

```
_xmpp-client._tcp.domain.com 10 0 5222 server.domain.com
```

```
_xmpp-server._tcp.domain.com 10 0 5269 server.domain.com
```

Host record provided in SRV lookup is server.domain.com

- beem will not authenticate.

Other XMPP clients authenticating properly (Pidgin, Spark).

If the following DNS is configured:

SRV records for 5222 and 5269 setup properly for server.domain.com

```
_xmpp-client._tcp.server.domain.com 10 0 5222 server.domain.com
```

```
_xmpp-server._tcp.server.domain.com 10 0 5269 server.domain.com
```

Host record proved in SRV lookup is server.domain.com

- beem will authenticate.

#2 - 01/19/2011 06:45 PM - Frédéric Barthéléry

- Priority changed from High to Normal

- Target version changed from 0.1.5 to 0.2

Not very high, the problem seems to happens only on emulator.

#3 - 01/19/2011 07:11 PM - Michael Picher

ah, no... happens on any server that has DNS SRV setup...

That's not infrequent... it's only infrequent if you aren't trying to connect to something that uses SRV.

I believe the problem may lie in the smack library as the same problem afflicts spark on windows and they use the smack library too...

#4 - 01/19/2011 09:40 PM - Frédéric Barthéléry

When I first post this issue, I was referring to this specific exception which seems to happened only on the emulator :

```
D/dalvikvm( 340): GC_FOR_MALLOC freed 4721 objects / 300480 bytes in 141ms
W/System.err( 340): java.net.SocketException: Bad address family
W/System.err( 340): at org.apache.harmony.luni.platform.OSNetworkSystem.connectStreamWithTimeoutSocketImpl(Native Method)
W/System.err( 340): at org.apache.harmony.luni.platform.OSNetworkSystemkSystem.connect(OSNetworkSystem.java:115)
W/System.err( 340): at org.orgapache.harmony.nio.internal.SocketChannelImpl.connect(SocketChannelImpl.java:272)
W/System.err( 340): at org.apache.harmony.nio.internal.PipeImpl$SinkChannelImpl.finishConnect(PipeImpl.java:164)
W/System.err( 340): at org.apache.harmony.nio.internal.PipeImpl.<init>(PipeImpl.java:48)
W/System.err( 340): at org.apache.harmony.nio.internal.SelectorProviderImpl.openPipe(SelectorProviderImpl.java:51)
W/System.err( 340): at org.apache.harmony.nio.internal.SelectorImpl.<init>(SelectorImpl.java:141)
W/System.err( 340): at org.apache.harmony.nio.internal.SelectorProviderImpl.openPipeSelector(SelectorProviderImpl.java:58)
W/System.err( 340): at java.nio.channels.Selector.open(Selector.java:48)
W/System.err( 340): at org.xbill.DNS.Client.<init>(Client.java:21)
W/System.err( 340): at org.xbill.DNS.UDPClient.<init>(UDPClient.java:47)
W/System.err( 340): at org.xbill.DNS.UDPClient.sendrecv(UDPClient.java:145)
W/System.err( 340): at org.xbill.DNS.SimpleResolver.send(SimpleResolver.java:252)
W/System.err( 340): at org.xbill.DNS.ExtendedResolver$Resolution.start(ExtendedResolver$Resolution.java:95)
W/System.err( 340): at org.xbill.DNS.ExtendedResolver$Resolution.send(ExtendedResolver$Resolution.java:358)
W/System.err( 340): at org.xbill.DNS.Lookup.lookup(Lookup.java:449)
W/System.err( 340): at org.xbill.DNS.Lookup.resolve(Lookup.java:501)
W/System.err( 340): at org.xbill.DNS.Lookup.run(Lookup.java:515)
W/System.err( 340): at org.jivesoftware.smack.util.DNSUtil.resolveSRV(DNSUtil.java:54)
```

For the most general case, the smack dns SRV resolution works. By example it works well with gmail

```
;; QUESTION SECTION:
;_xmpp-client._tcp.gmail.com. IN SRV

;; ANSWER SECTION:
_xmpp-client._tcp.gmail.com. 86349 IN SRV 20 0 5222 talk2.1.google.com.
_xmpp-client._tcp.gmail.com. 86349 IN SRV 20 0 5222 talk3.1.google.com.
_xmpp-client._tcp.gmail.com. 86349 IN SRV 20 0 5222 talk4.1.google.com.
_xmpp-client._tcp.gmail.com. 86349 IN SRV 5 0 5222 talk.1.google.com.
_xmpp-client._tcp.gmail.com. 86349 IN SRV 20 0 5222 talk1.1.google.com.
```

and with our server:

```
;; QUESTION SECTION:
;_xmpp-client._tcp.beem-project.com. IN SRV

;; ANSWER SECTION:
_xmpp-client._tcp.beem-project.com. 86400 IN SRV 10 0 5222 elyzion.net.
```

#5 - 01/20/2011 12:43 AM - Michael Picher

Ok, will have to re-test beem to openfire.

Thanks,
Mike

#6 - 07/30/2011 10:23 PM - Frédéric Barthéléry

- Status changed from New to Resolved
- Target version changed from 0.2 to 0.1.7

#7 - 08/25/2011 02:55 PM - Frédéric Barthéléry

- Status changed from Resolved to Closed

Files

dns-srv.log	9.48 KB	07/22/2010	Frédéric Barthéléry
-------------	---------	------------	---------------------