

Re: LDAP UDP Port Problem

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.setup/2004-02/0084.html>

From: Joe Richards [MVP] (humorexpress_at_hotmail.com)

Date: 02/04/04

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You might want to do a network trace on both sides and watch the packets. A common occurrence is for UDP packets to be tossed out when they exceed a certain size and start to fragment. This is configurable in the networking hardware.

You can doublecheck if this is the problem by forcing kerberos to use tcp for all communications.

See <http://support.microsoft.com/default.aspx?scid=KB;en-us;q244474>

The correct fix is to identify that the network gear is tossing out the UDP packets and sit down with your network people and have them explain why.

```
--
www.joeware.net
"Mike Morgan" <mmorgan@ci.gulfport.ms.us> wrote in message
news:OuvFA6d6DHA.2952@tk2msftngp13.phx.gbl...
>
>
> I'm having a problem logging in to our new active directory from any
subnet
> other than the one the DC is on. The DC is on 10.25.1.5. If I put a
> workstation on 10.25.1.6 every thing works fine. If I put it on 10.25.4.6,
> it takes forever to login. Troubleshooting has revealed that TCP/IP and
DNS
> are working properly. Netdiag revealed some failed tests, but nothing
panned
> out in the way of a solution. Then I did some portqry's on the LDAP port
on
> my DC with both 10.25.1.6 and 10.25.4.6. The results are listed below. In
> short, with a 10.25.4.6 IP on the workstation, the DC does not respond to
> UDP requests. Does anybody know how to either fix or work around this?
Thank
> you.
>
>
> portqry -name downtown01 -p tcp -e 389
>
> Querying target system called:
>
> downtown01
>
> Attempting to resolve name to IP address...
```

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```
>
>
> Name resolved to 10.25.1.5
>
> querying...
>
> TCP port 389 (ldap service): LISTENING
>
> Using ephemeral source port
> Sending LDAP query to TCP port 389...
>
> LDAP query response:
>
>
> currentdate: 02/02/2004 21:24:34 (unadjusted GMT)
> subschemaSubentry:
> CN=Aggregate,CN=Schema,CN=Configuration,DC=ci,DC=gulfport,DC=ms,DC=us
> dsServiceName: CN=NTDS
>
Settings,CN=DOWNTOWN01,CN=Servers,CN=Downtown,CN=Sites,CN=Configuration,DC=c
> i,DC=gulfport,DC=ms,DC=us
> namingContexts: CN=Schema,CN=Configuration,DC=ci,DC=gulfport,DC=ms,DC=us
> defaultNamingContext: DC=ci,DC=gulfport,DC=ms,DC=us
> schemaNamingContext:
> CN=Schema,CN=Configuration,DC=ci,DC=gulfport,DC=ms,DC=us
> configurationNamingContext: CN=Configuration,DC=ci,DC=gulfport,DC=ms,DC=us
> rootDomainNamingContext: DC=ci,DC=gulfport,DC=ms,DC=us
> supportedControl: 1.2.840.113556.1.4.319
> supportedLDAPVersion: 3
> supportedLDAPPolicies: MaxPoolThreads
> highestCommittedUSN: 11760
> supportedSASLMechanisms: GSSAPI
> dnsHostName: downtown01.ci.gulfport.ms.us
> ldapServiceName: ci.gulfport.ms.us:downtown01$@CI.GULFPORT.MS.US
> serverName:
>
CN=DOWNTOWN01,CN=Servers,CN=Downtown,CN=Sites,CN=Configuration,DC=ci,DC=gulf
> port,DC=ms,DC=us
> supportedCapabilities: 1.2.840.113556.1.4.800
> isSynchronized: TRUE
> isGlobalCatalogReady: TRUE
>
>
> ===== End of LDAP query response =====
>
>
> portqry -name downtown01 -p udp -e 389
>
>
> Querying target system called:
>
> downtown01
>
> Attempting to resolve name to IP address...
>
>
> Name resolved to 10.25.1.5
>
> querying...
>
> UDP port 389 (unknown service): LISTENING or FILTERED
>
```

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```
> Using ephemeral source port
> Sending LDAP query to UDP port 389...
>
> LDAP query response:
>
>
> currentdate: 02/02/2004 21:24:47 (unadjusted GMT)
> subschemaSubentry:
> CN=Aggregate,CN=Schema,CN=Configuration,DC=ci,DC=gulfport,DC=ms,DC=us
> dsServiceName: CN=NTDS
>
Settings,CN=DOWNTOWN01,CN=Servers,CN=Downtown,CN=Sites,CN=Configuration,DC=c
> i,DC=gulfport,DC=ms,DC=us
> namingContexts: CN=Schema,CN=Configuration,DC=ci,DC=gulfport,DC=ms,DC=us
> defaultNamingContext: DC=ci,DC=gulfport,DC=ms,DC=us
> schemaNamingContext:
> CN=Schema,CN=Configuration,DC=ci,DC=gulfport,DC=ms,DC=us
> configurationNamingContext: CN=Configuration,DC=ci,DC=gulfport,DC=ms,DC=us
> rootDomainNamingContext: DC=ci,DC=gulfport,DC=ms,DC=us
> supportedControl: 1.2.840.113556.1.4.319
> supportedLDAPVersion: 3
> supportedLDAPPolicies: MaxPoolThreads
> highestCommittedUSN: 11760
> supportedSASLMechanisms: GSSAPI
> dnsHostName: downtown01.ci.gulfport.ms.us
> ldapServiceName: ci.gulfport.ms.us:downtown01$@CI.GULFPORT.MS.US
> serverName:
>
CN=DOWNTOWN01,CN=Servers,CN=Downtown,CN=Sites,CN=Configuration,DC=ci,DC=gulf
> port,DC=ms,DC=us
> supportedCapabilities: 1.2.840.113556.1.4.800
> isSynchronized: TRUE
> isGlobalCatalogReady: TRUE
>
>
> ===== End of LDAP query response =====
>
>
>
> UDP port 389 is LISTENING
>
>
>
>
+++++
> +++++
> portqry -name downtown01 -p udp -e 389
>
>
> Querying target system called:
>
> downtown01
>
> Attempting to resolve name to IP address...
>
>
> Name resolved to 10.25.1.5
>
> querying...
>
> TCP port 389 (ldap service): LISTENING
>
```

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```
> Using ephemeral source port
> Sending LDAP query to TCP port 389...
>
> LDAP query response:
>
>
> currentdate: 02/02/2004 21:23:56 (unadjusted GMT)
> subschemaSubentry:
> CN=Aggregate,CN=Schema,CN=Configuration,DC=ci,DC=gulfport,DC=ms,DC=us
> dsServiceName: CN=NTDS
>
Settings,CN=DOWNTOWN01,CN=Servers,CN=Downtown,CN=Sites,CN=Configuration,DC=c
> i,DC=gulfport,DC=ms,DC=us
> namingContexts: CN=Schema,CN=Configuration,DC=ci,DC=gulfport,DC=ms,DC=us
> defaultNamingContext: DC=ci,DC=gulfport,DC=ms,DC=us
> schemaNamingContext:
> CN=Schema,CN=Configuration,DC=ci,DC=gulfport,DC=ms,DC=us
> configurationNamingContext: CN=Configuration,DC=ci,DC=gulfport,DC=ms,DC=us
> rootDomainNamingContext: DC=ci,DC=gulfport,DC=ms,DC=us
> supportedControl: 1.2.840.113556.1.4.319
> supportedLDAPVersion: 3
> supportedLDAPPolicies: MaxPoolThreads
> highestCommittedUSN: 11756
> supportedSASLMechanisms: GSSAPI
> dnsHostName: downtown01.ci.gulfport.ms.us
> ldapServiceName: ci.gulfport.ms.us:downtown01$@CI.GULFPORT.MS.US
> serverName:
>
CN=DOWNTOWN01,CN=Servers,CN=Downtown,CN=Sites,CN=Configuration,DC=ci,DC=gulf
> port,DC=ms,DC=us
> supportedCapabilities: 1.2.840.113556.1.4.800
> isSynchronized: TRUE
> isGlobalCatalogReady: TRUE
>
>
> ===== End of LDAP query response =====
>
>
>
> portqry -name downtown01 -p udp -e 389
>
> Querying target system called:
>
> downtown01
>
> Attempting to resolve name to IP address...
>
>
> Name resolved to 10.25.1.5
>
> querying...
>
> UDP port 389 (unknown service): LISTENING or FILTERED
>
> Using ephemeral source port
> Sending LDAP query to UDP port 389...
>
> LDAP query to port 389 failed
> Server did not respond to LDAP query
>
>
>
```