

Re: DCDIAG DNS Failure

Source:

<http://www.tech-archive.net/Archive/Windows/microsoft.public.windows.server.dns/2006-08/msg00410.html>

- *From:* dlove106 <dlove106@xxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Tue, 8 Aug 2006 13:18:02 -0700
-

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DLove

"Jorge Silva" wrote:

Inline

0.in-addr.arpa
127.in-addr.arpa
255.in-addr.arpa

– these are loopback related, don't worry.

So, with advance view I have 4 forward lookup zones and 10 reverse lookup zones. Without advance view I have 4 forward lookup zones and 7 reverse lookup zones.

– are you hosting 4 different domains?
domain01.com, domain02.com, etc?
did you create MX records for the exchange domains that you're hosting?

The domains are valid. I have created an MX record for the exchange domain.

– 7 reverse lookup zones?
do you need all these reverse zones or your DNS server is multihomed (multiple NICs)

My DNS server is not multihomed. Everything certainly worked better after the reverse zones were created. They are all valid reverse zones.

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–Your exchange server that is giving you problems, can it send Mail outside, or the problem is only to receive Mails?
if the problem is only to receive mails, check that your FW/ROUTER have the correct ports (SMTP 25TCP) pointing to the exchange server, also make sure that the FW/ROUTER for your domain has the correct public address.

The router has the correct info. The problem is mainly slow delivery, not so much non-delivery of incoming mail.

–If the problem is between the Exchange 5.5 and 2003 you should check the connectors between them, goto exchange ng they can help you out better.

I am in mixed mode right now with both ek55 and ek2003. I will post in the exchange group, although I would like to correct the DNS error found in dcdiag.

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I hope that the information above helps you

Good Luck
Jorge Silva
MCSA
Systems Administrator

"dlove106" <dlove106@xxxxxxxxxxxxxxxxxxxx> wrote in message
news:A6E2C987-4829-469B-9DD7-4F70A01D3AC6@xxxxxxxxxxxxxxxxxxxx

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DLove

"Jorge Silva" wrote:

Ok, disable the advance view on DNS console, what do you see now?
No zones?
If yes then you can configure one zone, make AD integrated
(If the server
is
a DC), run ipconfig /registerdns

I still see zones after disabling the advance view (Expected?). The only change is I no longer see 3 of the reverse lookup zones. They are as follows:
0.in-addr.arpa

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127.in-addr.arpa
255.in-addr.arpa

So, with advance view I have 4 forward lookup zones and 10 reverse lookup zones. Without advance view I have 4 forward lookup zones and 7 reverse lookup zones.

--

I hope that the information above helps you

Good Luck
Jorge Silva
MCSA
Systems Administrator

"dlove106" <dlove106@xxxxxxxxxxxxxxxxxxxx> wrote in message
news:90E860AB-1EE7-48EA-8FB9-4D9B729AA41D@xxxxxxxxxxxxxxxxxxxx

Jorge,

I have looked at most of the articles you sited and I have configured DNS accordingly sometime ago. My clients are pointing to my internal DNS server only. The DNS server lists only itself as the preferred server with no alternate. I am not certain about the reverse lookup zone setup as I have 3 entries that seem to refer to the loopback address. I'm not sure which one is the correct one. They list as follows:

0.0.127.in-addr.arpa (Has NS & SOA records pointing the lone DNS server)

0.in-addr.arpa (Has NS & SOA records pointing the lone DNS server)

127.in-addr.arpa (Has NS & SOA records pointing the lone DNS server)
This

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one also has a child entry as follows:
0 (Yellow folder with 1 record listed below)
0 (NS record)

I hope this sheds a little more light on what I
am seeing and can help
in
how to proceed.

Thanks.

--
DLove

"Jorge Silva" wrote:

This sounds more like a
Exchange
misconfiguration.
to check DNS config:
– Make sure that you
configure the Preferred DNS
server in TCP/IP
properties
on each Domain Controller
to use itself as Primary DNS
Server (If DC
IP
Address is 10.0.0.1 then Dns
should be 10.0.0.1).When
adding an
additional
DC to an existent Domain,
do not configure the domain
controller to
utilize
its own DNS service for
name resolution until you
have verified that
both
inbound and outbound
Active Directory replication
is functioning and
up
to
date. During the DCPromo
process, you must configure
additional domain
controllers to point to

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another domain controller
that is running DNS
in
their domain and site, and
that hosts the namespace of
the domain in
which
the new domain controller is
installed. More Info here:

Best practices for DNS
client settings in Windows
2000 Server and in
Windows
Server 2003

<http://support.microsoft.com/kb/825036/en-us>

– Make sure that every DNS
server can resolve all
existent domains in
the
forest. (You can use
Forwarding, Stub Zones or
Secondary Zones).

DNS Conditional
Forwarding in Windows
Server 2003

http://www.windowsnetworking.com/articles_tutorials/DNS_Conditional_For

DNS Stub Zones in
Windows Server 2003

http://www.windowsnetworking.com/articles_tutorials/DNS_Stub_Zones.htm

How To Create a Child
Domain in Active Directory
and Delegate the DNS
Namespace to the Child
Domain

<http://support.microsoft.com/kb/255248/>

– Make sure that all clients
only use their local(s) Dns
Server. Note
That
DNS client does not utilize
each of the DNS servers

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listed in TCP/IP configuration for each query. By default, on startup the DNS client will attempt to utilize the server in the Preferred DNS server entry. If this server fails to respond for any reason, the DNS client will switch to the server listed in the alternate DNS server entry. The DNS client will continue to use this alternate DNS server until: fails to respond to a DNS query, or The ServerPriorityTimeLimit value is reached (15 minutes by default). For more information:

How To Install and Configure DNS Server in Windows Server 2003

<http://support.microsoft.com/kb/814591/en-us>

Best practices for DNS client settings in Windows 2000 Server and in Windows Server 2003

<http://support.microsoft.com/kb/825036/en-us>

How to configure DNS for Internet access in Windows Server 2003

<http://support.microsoft.com/kb/323380/en-us>

How to configure TCP/IP to use DNS in Windows XP

<http://support.microsoft.com/default.aspx?scid=kb:en-us:305553>

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I hope that the information
above helps you

Good Luck
Jorge Silva
MCSA
Systems Administrator

"dlove106"

<dlove106@xxxxxxxxxxxxxxxxxxxxxx>

wrote in message

news:50EDC2F6-F02B-4C06-8CB2-22F2207B8E8F@xxxxxxxxxxxxxxxxxxxxxx

1 AD
domain –
Parent DC
is located in
Shiprepair,
which is
also the
sole
DNS
server,
which has
forwarders
to our ISP.
Child DC
has has all
member
servers
including
2003
exchange.
Exchange
points to
parent dc as
preferred
dns
server (no
alternate).
Exchange
2003 is
co-existing
with
Exchange5.5,
with

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2003
handling
both
inbound and
outbound
traffic.
Presently,
95% of
the
mailboxes
still reside
in 5.5,
which is
located in a
NT4
domain.

We actually
have 2
email
addresses, 1
from
corporate
with DNS
handled
by
them (Mail
working
fine), the
other
handled
locally by
me (does
not
route
thru
corporate).
Incoming
mail is
forwarded
from 2003
Exchange to
5.5
exchange
after going
thru spam
filter.

The DNS
structure
has a zone

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configured
for the
parent
domain and
a
child
zone for the
child
domain,
with the
appropriate
host, NS,
and SOA's
in
the
parent and
host records
in the child.
Reverse
lookup
zones are
also
configured.

I hope this
help. If you
need more
specifics let
me know.

Thanks for
the help.

--
DLove

"Jorge
Silva"
wrote:

Hi

Can
you
describe
a
little
more
about
network

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config:

–Did
you
monitored
the
exchange
(Memory,CPU,DISK,SMTP
Queues,virtual
memory,etc)?
–Exchange
configuration
(NIC
Properties).
–Existent
DNS
servers
and
its
configuration.
–How
the
mail
is
being
delivered
to
Exchange.
–DNS
structure.
–Etc.

--

I
hope
that
the
information
above
helps
you

Good
Luck
Jorge
Silva
MCSA
Systems
Administrator

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"dlove106"
<dlove106@xxxxxxxxxxxxxxxxxxxxxx>
wrote
in
message
<news:2DDFBD9A-DAA2-41D4-95F3-63326895E458@xx>

I
suspect
that
DNS
issues
are
causing
me
to
have
email
messages
arrive
hours
or
even
a
day
late.
It
does
not
happen
all
the
time,
but
does
I
have
confirmed
the
problem.
I
ran
dcdiag
/test:dns
and
received
the
output
below.
I
am

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able
to
successfully
query
other
domains,
and
everything
appears
to
be
functioning
fine.
I'm
not
sure
why
the
test
is
failing
or
what
caused
it.
Without
the
sometimes
slow
mail
delivery,
I
would
not
even
know
there
was
a
problem.
Any
help
in
troubleshooting
the
problem
would
be
greatly
appreciated.

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DNS
is
running
on
a
DC
in
the
Parent
container;
Exchange
2003
server
is
located
in
child
domain.

Thanks.

Domain
Controller
Diagnosis

Performing
initial
setup:
Done
gathering
initial
info.