

Technical Note: DNS resolution not working when DNS Server configured to 'Same as Interface IP'

135 Les Carr Wed, Aug 9, 2017 [Fortigate UTM](#) 7081

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Products

Products

FortiGate v5.2

FortiGate v5.4

FortiGate v5.6

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This article provides a solution to DNS resolution not working when DNS Server is configured to "Same as Interface IP".

root

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Edit Interface

Interface Name: LAN
Alias:
Type: Hardware Switch
Virtual Domain: root
Interface Members: lan1 x lan3 x lan4 x +
Role: LAN

Address

Addressing mode: Manual DHCP PPPoE
IP/Network Mask: 10.66.66.254/255.255.255.0
IPv6 Addressing mode: Manual DHCP
IPv6 Address/Prefix: ::/0

Administrative Access

IPv4:
☒ HTTPS
☒ SSH
☐ FortiTelemetry
☐ HTTP
☒ SNMP
☒ PING
☐ FTM
IPv6 Administrative Access:
☐ HTTPS
☐ SSH
☐ HTTP
☐ SNMP
☐ PING
☐ FTM

DHCP Server

Address Range

+ Create New
Edit
Delete

Starting IP	End IP
10.66.66.100	10.66.66.253

Netmask: 255.255.255.0
Default Gateway: Same as Interface IP Specify
DNS Server: Same as System DNS Same as Interface IP Specify

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DNS resolution can be seen to fail.

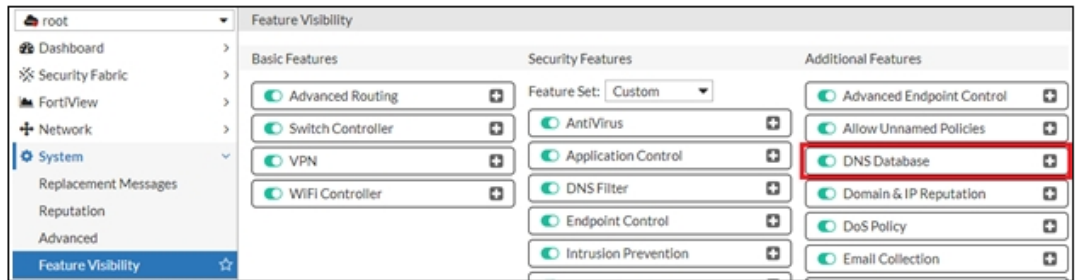
```
C:\WINDOWS\system32>nslookup
DNS request timed out.
    timeout was 2 seconds.
Default Server:  UnKnown
Address:  10.66.66.254

> msn.com
Server:  UnKnown
Address:  10.66.66.254

DNS request timed out.
    timeout was 2 seconds.
DNS request timed out.
    timeout was 2 seconds.
DNS request timed out.
    timeout was 2 seconds.
DNS request timed out.
    timeout was 2 seconds.
*** Request to UnKnown timed-out
>
```

Solution

Enable the DNS Database Feature.

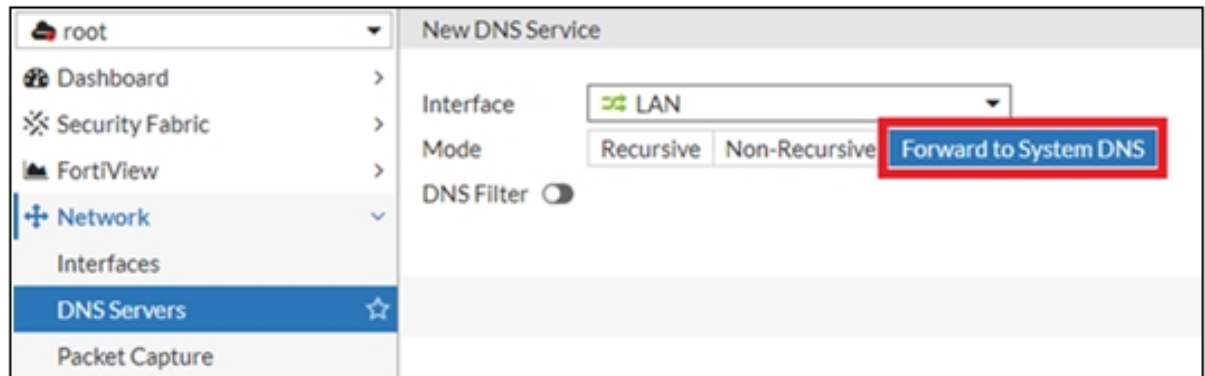


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Configure a DNS Server for the interface that DNS requests will be sent to.

Set the mode to "Forward to System DNS".



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DNS resolution can now be seen to be successful.

```
C:\WINDOWS\system32>nslookup
Default Server:  UnKnown
Address:  10.66.66.254

> msn.com
Server:  UnKnown
Address:  10.66.66.254

Non-authoritative answer:
Name:    msn.com
Address:  13.82.28.61

>
```

Online URL: <https://kb2.ic.uk/article.php?id=135>