

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

135 Les Carr Wed, Aug 9, 2017 [Fortigate UTM](#) 6895

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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".

The screenshot displays the FortiGate configuration interface for editing a network interface. The left-hand navigation pane is expanded to 'Network' > 'Interfaces'. The main configuration area is titled 'Edit Interface' and shows the following settings:

- Interface Name:** LAN
- Alias:** (empty field)
- Type:** Hardware Switch
- Virtual Domain:** root
- Interface Members:** lan1, lan3, lan4
- Role:** LAN

The **Address** section is configured as follows:

- Addressing mode:** Manual (selected), DHCP, PPPoE
- IP/Network Mask:** 10.66.66.254/255.255.255.0
- IPv6 Addressing mode:** Manual (selected), DHCP
- IPv6 Address/Prefix:** ::/0

The **Administrative Access** section shows:

- IPv4:**
 - HTTPS, SSH, FortiTelemetry, HTTP, SNMP, PING, FTM
- IPv6 Administrative Access:**
 - HTTPS, SSH, HTTP, SNMP, PING, FTM

The **DHCP Server** section is enabled and configured with:

- Address Range:**

Starting IP	End IP
10.66.66.100	10.66.66.253
- Netmask:** 255.255.255.0
- Default Gateway:** Same as Interface IP (selected), Specify
- DNS Server:** Same as System DNS, **Same as Interface IP** (selected and highlighted with a red box), Specify

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DNS resolution can be seen to fail.

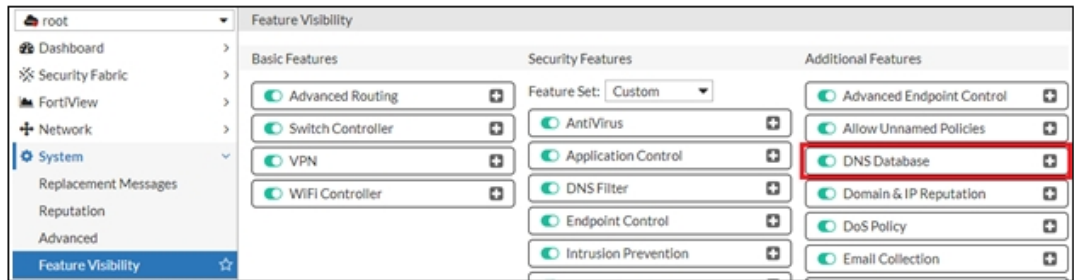
```
C:\WINDOWS\system32>nslookup
DNS request timed out.
    timeout was 2 seconds.
Default Server: UnKnown
Address: 10.66.66.254

> 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.

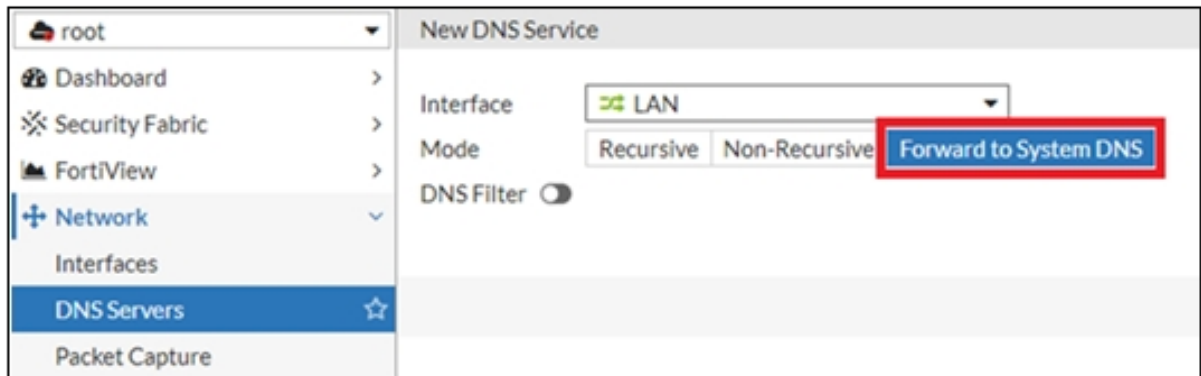


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Configure a DNS Server for the interface that DNS requests will be sent to.

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>