

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

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Products

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- FortiGate v5.2
- FortiGate v5.4
- FortiGate v5.6

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

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, lan3, lan4

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, ☐ HTTP, ☒ SNMP, ☐ FortiTelemetry, ☒ PING, ☐ FTM

IPv6 Administrative Access: ☐ HTTPS, ☐ SSH, ☐ HTTP, ☐ SNMP, ☐ PING, ☐ FTM

DHCP Server

Address Range

+ Create New, Edit, Delete

Starting IP: 10.66.66.100, End IP: 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.

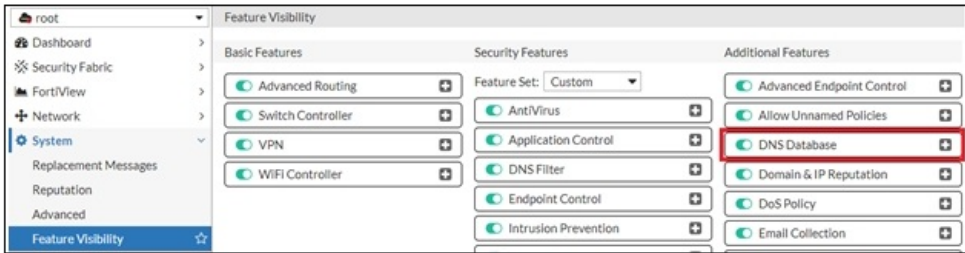
```
C:\WINDOWS\system32>nslookup
DNS request timed out.
    timeout was 2 seconds.
Default Server: UnKnown
Address: 10.66.66.254

> 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

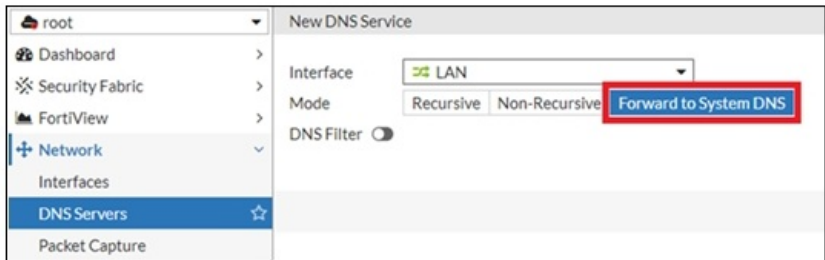
Enable the DNS Database Feature.



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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

>
```

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