# Internal Dashboard Troubleshooting Report

---

# **X** Issue Summary

- Users were unable to access 'internal.example.com'.
- Error received: "Host not found" / NXDOMAIN.
- Suspected root cause: DNS resolution failure or network misconfiguration.

---



### 1. Confirmed DNS Resolution Issue

Command used:

nslookup internal.example.com

#### Result:

- Error: server can't find internal.example.com: NXDOMAIN
- Confirms that DNS cannot resolve the hostname.

## 2. Checked Current DNS Settings

Command used:

cat /etc/resolv.conf

#### Result:

- Found wrong or missing DNS servers.

## 3. Found Correct Server IP Address

Command used:

nmap -sn 192.168.1.0/24

or

arp -a

#### Result:

- Found internal server at 192.168.1.50.

## 4. Temporary Fix by Editing /etc/hosts

Command used:

sudo nano /etc/hosts

Added Entry:

192.168.1.50 internal.example.com

#### Result:

- Local hostname resolution succeeded via /etc/hosts.

## 5. Verified Service Reachability

Ping Test

Command used:

ping internal.example.com

Result:

- Successful replies received.

HTTP Service Test

Command used:

curl -I http://internal.example.com

Result:

- Received HTTP 200 OK (or other valid HTTP response).

## 6. (Bonus) Permanent DNS Configuration Fix

Configured systemd-resolved

Command used:

sudo nano /etc/systemd/resolved.conf

Added:

[Resolve]

DNS=8.8.8.8 1.1.1.1

Restarted DNS service:

sudo systemctl restart systemd-resolved

sudo ln -sf /run/systemd/resolve/resolv.conf /etc/resolv.conf

Confirmed with:

cat /etc/resolv.conf

Result:

- DNS servers now correctly set.

---

## **Root Cause Identified**

Cause Confirmed

Incorrect or missing DNS configuration

Confirmed via nslookup and /etc/resolv.conf

---

# **Solution Applied**

- Added correct manual entry to /etc/hosts.
- Updated system DNS configuration to reliable public DNS servers.
- Verified connectivity by ping and curl tests.

---

# **Outcome**

- internal.example.com now resolves successfully.
- Web dashboard is reachable and operational.
- Network and DNS services restored for users.

---