

# 3.1.1 Ensure IP forwarding is disabled (Scored)

## Profile Applicability

```
Level 1 - Server  
Level 1 - Workstation
```

## Description

The `net.ipv4.ip_forward` flag is used to tell the system whether it can forward packets or not.

## Rationale

Setting the flag to 0 ensures that a system with multiple interfaces (for example, a hard proxy), will never be able to forward packets, and therefore, never serve as a router.

## Audit

Run the following command and verify output matches:

```
# sysctl net.ipv4.ip_forward  
net.ipv4.ip_forward = 0
```

## Remediation

Set the following parameter in the `/etc/sysctl.conf` file:

```
net.ipv4.ip_forward = 0
```

Run the following commands to set the active kernel parameters:

```
# sysctl -w net.ipv4.ip_forward=0  
# sysctl -w net.ipv4.route.flush=1
```

From:

<https://secscan.acron.pl/> - **SecScan**

Permanent link:

<https://secscan.acron.pl/ubuntu1604/3/1/1>

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