



## Ethernet Interfaces

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Ethernet interfaces allow for the configuration of speed, duplex, and hw-id (MAC address). Below is an example configuration:

```
vyos@vyos-rtr# set interfaces ethernet eth1 address '192.168.0.1/24'  
vyos@vyos-rtr# set interfaces ethernet eth1 description 'INSIDE'  
vyos@vyos-rtr# set interfaces ethernet eth1 duplex 'auto'  
vyos@vyos-rtr# set interfaces ethernet eth1 speed 'auto'
```

Resulting in:

```
    ethernet eth1 {  
        address 192.168.0.1/24  
        description INSIDE  
        duplex auto  
        hw-id 00:0c:29:44:3b:19  
        smp_affinity auto  
        speed auto  
    }
```

In addition, Ethernet interfaces provide the extended operational commands **show interfaces ethernet <name> physical** and **show interfaces ethernet <name> statistics**. Statistics available are driver dependent.

```
vyos@vyos:~$ show interfaces ethernet eth0 physical
```

Settings for eth0:

```
    Supported ports: [ TP ]  
    Supported link modes:  10baseT/Half 10baseT/Full  
                        100baseT/Half 100baseT/Full  
                        1000baseT/Full  
    Supports auto-negotiation: Yes  
    Advertised link modes:  10baseT/Half 10baseT/Full  
                        100baseT/Half 100baseT/Full  
                        1000baseT/Full  
    Advertised pause frame use: No  
    Advertised auto-negotiation: Yes
```

Speed: 1000Mb/s  
Duplex: Full  
Port: Twisted Pair  
PHYAD: 0  
Transceiver: internal  
Auto-negotiation: on  
MDI-X: Unknown  
Supports Wake-on: d  
Wake-on: d  
Current message level: 0x00000007 (7)  
Link detected: yes

driver: e1000

version: 7.3.21-k8-NAPI

firmware-version:

bus-info: 0000:02:01.0

vyos@vyos:~\$

vyos@vyos:~\$ **show interfaces ethernet eth0 statistics**

NIC statistics:

rx\_packets: 3530

tx\_packets: 2179

[...]