

IP - the ifconfig replacement

Anyone who has used Linux will likely be familiar with the **ifconfig** command. Apparently ifconfig was deprecated some time ago, but has still been included in CentOS and Red Hat. Well version 7 has finally left out **ifconfig** and so now we move on to it's replacement called **ip**

Basic IP Commands

```
ip a
```

This command will list all interfaces with their associated information.

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
   link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
   inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
   inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
   link/ether b8:27:eb:25:73:7d brd ff:ff:ff:ff:ff:ff
   inet 192.168.1.7/24 brd 192.168.1.255 scope global eth0
       valid_lft forever preferred_lft forever
   inet6 fe80::9c01:198b:dfcf:da93/64 scope link
       valid_lft forever preferred_lft forever
3: wlan0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast state DOWN group default qlen 1000
   link/ether b8:27:eb:70:26:28 brd ff:ff:ff:ff:ff:ff
```

Let's say you only want to see IPv4 information (for clarity). To do this, issue the command:

```
ip -4 a
```

Or, if you only want to see IPv6 information:

```
ip -6 a
```

What if you only want to see information regarding a specific interface? You can list information for a wireless connection with the command:

```
ip a show wlan0
```

You can even get more specific with this command. If you only want to view IPv4 on the wlan0 interface, issue the command:

```
ip -4 a show wlan0
```

You can even list only the running interface using:

```
ip link ls up
```

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN mode DEFAULT group default qlen 1
   link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
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```

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