

Exclude Virtual Interfaces in IP Command

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In Kubernetes deployments, there are always a number of virtual interfaces, this isn't an issue until you are trying to look at the details of physical interfaces, and the virtual ones scroll the physical ones off the page. You can use a grep command to hide the virtual interfaces to stop this this though.

Lets say I use an IP command to list the interfaces on a Linux instance.

```
ip -br -c a
```

I will see something similar to the following output.

```
lo                UNKNOWN      127.0.0.1/8 ::1/128
eth2              UP           11.0.200.2/16 fe80::76fe:48ff:fe45:e65e/64
eth3              DOWN
eth4              UP           12.0.200.4/16 fe80::76fe:48ff:fe45:e660/64
eth5              DOWN
eth0              UP           10.43.30.200/24 fe80::76fe:48ff:fe45:1eee/64
eth1              DOWN
internalk3s0      UNKNOWN      192.168.255.1/24
kube-ipvs0        DOWN
10.1.234.150/32 10.1.224.182/32 10.1.82.169/32 10.1.88.39/32 10.1.113.246/32 10.1.0.10/32 10.1.92.105/32
10.1.242.227/32 10.1.136.136/32 10.1.147.213/32 10.1.105.61/32 10.1.14.221/32 10.1.62.150/32
192.168.255.1/32 10.1.142.50/32 10.1.227.44/32 10.1.178.20/32 10.1.37.6/32 10.1.220.215/32
10.1.46.190/32 10.1.188.12/32 10.1.27.143/32 10.1.75.75/32 10.1.45.171/32 10.1.242.58/32 10.1.146.97/32
10.1.119.162/32 10.1.133.120/32 10.1.193.167/32 10.1.44.38/32 10.1.226.76/32 10.1.60.158/32
flannel.1         UNKNOWN      10.0.0.0/32 fe80::c426:bfff:fe61:77b7/64
cni0              UP           10.0.0.1/24 fe80::98df:c5ff:fe4f:e664/64
veth5b959f30@if2 UP           fe80::483d:bcff:fe00:bf49/64
veth1b36bc0e@if2 UP           fe80::a479:9fff:feec:741b/64
vetheafccb8b@if2 UP           fe80::fc7a:eaff:fe49:ade4/64
veth6cab92f8@if2 UP           fe80::80a7:bfff:fe8f:504/64
vetha6ca6c5c@if2 UP           fe80::784a:afff:fe3e:511/64
vetha47d76c5@if2 UP           fe80::94e0:b3ff:fe8f:8b1b/64
veth78d7ae7b@if2 UP           fe80::1083:91ff:fe56:b7ad/64
vethbfbdc9e@if2 UP           fe80::d4a7:13ff:fe38:bb29/64
veth12caaf80@if2 UP           fe80::104e:19ff:fe18:c5bf/64
vethecaec700@if2 UP           fe80::5c86:38ff:fedb:5bfa/64
vethf759469f@if2 UP           fe80::a455:1eff:fed1:d90/64
veth5b8833a6@if2 UP           fe80::cad:7aff:fea3:d84a/64
veth18c2a62d@if2 UP           fe80::40d1:4fff:fe6e:d485/64
veth8e69b358@if2 UP           fe80::f0be:46ff:fee7:fb23/64
veth62243482@if2 UP           fe80::c52:58ff:fe6e:a289/64
veth4def4cbc@if2 UP           fe80::106e:beff:fe82:90d9/64
veth6583da97@if2 UP           fe80::e8dd:3fff:fe64:9071/64
veth30a60131@if2 UP           fe80::5097:44ff:fea9:9783/64
veth17bbb9b4@if2 UP           fe80::4067:f9ff:fe92:3663/64
vetha71f5d6e@if2 UP           fe80::6493:5cff:fef8:aadd/64
veth4171ad7f@if2 UP           fe80::a9:96ff:fe0e:311/64
vethffca2e81@if2 UP           fe80::302f:f9ff:fee5:8f50/64
vethce83eb59@if2 UP           fe80::c0f8:c5ff:fe07:f5e9/64
veth30897d87@if2 UP           fe80::c0ac:bfff:fe78:6080/64
veth9389c32@if2 UP           fe80::d810:1fff:fe14:5285/64
vethde8e4fea@if2 UP           fe80::547d:b0ff:fe0b:1f1c/64
vethc3a4bead@if2 UP           fe80::9c59:dcff:fee7:6f8e/64
veth4f402974@if2 UP           fe80::f490:b3ff:fe57:44e6/64
veth0cdaa299@if2 UP           fe80::283b:a8ff:fe3e:a4de/64
vethb0dc4ed2@if2 UP           fe80::e07f:9aff:fea0:99ea/64
veth1c3166fa@if2 UP           fe80::8c40:cbff:fe20:ec8/64
veth2255cafe@if2 UP           fe80::8df:44ff:feb0:4386/64
vethb12cf176@if2 UP           fe80::48b8:e7ff:fe3e:c539/64
veth931f4dd1@if2 UP           fe80::9cad:31ff:fe6d:b6bf/64
```

```
vetha3c59775@if2 UP      fe80::70fe:feff:fe35:d5a7/64
veth2ceb7cf6@if2 UP      fe80::a008:eeff:feb6:4cba/64
veth2199c7d1@if2 UP      fe80::f4c1:e4ff:fefa:465c/64
```

Unfortunately, the vethxxxxxx interfaces will cause the physical interface details at the top of the list out of the view of the console, so what we really need is a way to filter this result. This can be done using grep and a filter to format our output.

```
ip -br -c a |grep -v veth
```

This will hide anything containing the letters veth.

```
lo                UNKNOWN      127.0.0.1/8 ::1/128
eth2              UP          11.0.200.2/16 fe80::76fe:48ff:fe45:e65e/64
eth3              DOWN
eth4              UP          12.0.200.4/16 fe80::76fe:48ff:fe45:e660/64
eth5              DOWN
eth0              UP          10.43.30.200/24 fe80::76fe:48ff:fe45:1eee/64
eth1              DOWN
internalk3s0      UNKNOWN      192.168.255.1/24
kube-ipvs0        DOWN
10.1.234.150/32   10.1.224.182/32 10.1.82.169/32 10.1.88.39/32 10.1.113.246/32 10.1.0.10/32 10.1.92.105/32
10.1.242.227/32   10.1.136.136/32 10.1.147.213/32 10.1.105.61/32 10.1.14.221/32 10.1.62.150/32
192.168.255.1/32 10.1.142.50/32 10.1.227.44/32 10.1.178.20/32 10.1.37.6/32 10.1.220.215/32
10.1.46.190/32    10.1.188.12/32 10.1.27.143/32 10.1.75.75/32 10.1.45.171/32 10.1.242.58/32 10.1.146.97/32
10.1.119.162/32   10.1.133.120/32 10.1.193.167/32 10.1.44.38/32 10.1.226.76/32 10.1.60.158/32
flannel.1         UNKNOWN      10.0.0.0/32 fe80::c426:bfff:fe61:77b7/64
cni0              UP          10.0.0.1/24 fe80::98df:c5ff:fe4f:e664/64
```

No our list is much more readable.

We could refine this output with multiple exclusions using the -e switch:

```
ip -br -c a |grep -v -e "veth" -e "cni0" -e "flannel" -e "kube" -e "internal" -e "lo"
```

This give the following output.

```
eth2              UP          11.0.200.2/16 fe80::76fe:48ff:fe45:e65e/64
eth3              DOWN
eth4              UP          12.0.200.4/16 fe80::76fe:48ff:fe45:e660/64
eth5              DOWN
eth0              UP          10.43.30.200/24 fe80::76fe:48ff:fe45:1eee/64
eth1              DOWN
```

This is a lot to type/remember, but you could make a script out of it.



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