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How can I list my open ports on Debian?

What is the command to display a list of open ports on a Debian server?

I tried `netstat -a | egrep 'Proto|LISTEN'` but I would like something more specific that actually lists the port number.

linux   networking   debian

edited Feb 6 '12 at 18:28	asked Feb 6 '12 at 18:01
stew	leonel
5,916 12 32	**184** 2 2 8

6 Answers

```
netstat -pln
```

`-l` will list listening ports, `-p` will also display the process, `-n` will show port numbers instead of names. Add `-t` to only show TCP ports.

edited Apr 26 at 20:06	answered Feb 6 '12 at 18:09
Tim Bezhashvyly	Stone
105 5	**4,731** 9 29

3   For the `-p` to work properly, you need to run this as root, so `sudo netstat -tpln`, otherwise the process
     column will not be particularly useful, unless you're the user whose process is listening on a given port. –
     cjc Feb 6 '12 at 18:21

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```
lsof -i -P
```

Check the man page for `lsof` as there is no shortage of options. `-P` lists the port number
rather than the name taken from `/etc/services` Run as root, though, this will provide you with
a list of all active network connections and their status (listening, established, etc).

	answered Feb 6 '12 at 18:34
	Jeff Ferland
	15.5k 1 34 62

You can do:

```
netstat -an | egrep 'Proto|LISTEN'
```

or simply:

```
netstat -anl
```

which will give you all listening sockets on the system.

	answered Feb 6 '12 at 18:09
	Karlson
	231 3 6

2   This would be the best solution (where "best" is defined as "works on the broadest range of systems" (BSD,
     Linux, AIX, Solaris, I believe HP-UX)) –   voretaq7 ♦ Feb 6 '12 at 22:31

What almost everybody wants (TCP and UDP) is `netstat -tunlp`.

I use it every day, maybe every hour. The 'lsof' hack is more portable (works on Solaris too),

but on Debian it's not an essential package, you have to install it.

answered Feb 7 '12 at 23:04

zerodeux
336   1   3

Yes, and run it via `sudo` . – Martijn Heemels Feb 7 '12 at 23:09

My friend taught me to remember this command with a flower name `netstat -tulpen` Flag `e` gives additional information. – Deele Dec 15 '12 at 14:37

I'm a big fan on `netstat -ntlp` and `lsof -i` , both mentioned already.

A new(er) command to me is ss.

The invocation is like:

```
ss -l
```

It's good to have options, in terms of commands and flags.

answered Apr 26 at 20:24

dmourati
9,879   2   15   49

TechRepulic has a decent article that you can find here. It has some similar commands as you listed above but also a few variations. I would also highly recommend using nmap to do a port scan of the computer in question so you can see from an external perspective what ports are open and listening.

answered Feb 6 '12 at 18:07

Eric
909   6   20

Could you please tell me why this was down voted? As I simply provided a link with a lot of the solutions above which were approved along with a different perspective of doing an external scan as well. Thanks. – Eric Feb 6 '12 at 19:10

4   I didn't downvote, but on serverfault like most stack-exchange we generally expect you to to put the answer here, and not just a link to somewhere else. Links go away over time, but we want content on SF to still be valuable when the links die. – Zoredache Feb 6 '12 at 22:55