

Show All TCP Connections with `lsof`



I've spoken about [lsof command](#) briefly a few times, but think it deserves a few more mentions just because it's such a universally useful tool.

Show TCP Connections with `lsof`

Using the `-i tcp` option, you can get `lsof` to report all the TCP connections currently open by any process in your system.

For example (it's a long list so I'm just showing the first few lines):

```
greys@MacBook-Pro:/$ lsof -i tcp | head -10
COMMAND      PID  USER  FD  TYPE             DEVICE SIZE/OFF
NODE NAME
cloudd        361 greys  197u IPv4 0x90d8806378f8ff3d      0t0
TCP localhost:55919->localhost:nfsd-status (ESTABLISHED)
cloudd        361 greys  199u IPv4 0x90d88063ab22823d      0t0
TCP localhost:65345->localhost:nfsd-status (ESTABLISHED)
rapportd     368 greys    3u  IPv4 0x90d8806374a56f3d      0t0
```

```

TCP *:65115 (LISTEN)
rapporstd    368 greys    4u  IPv6 0x90d88063935504fd    0t0
TCP *:65115 (LISTEN)
rapporstd    368 greys    11u IPv4 0x90d8806378f91bbd    0t0
TCP macbook-pro.localdomain:65115->iphonex.localdomain:61268
(ESTABLISHED)
rapporstd    368 greys    14u IPv4 0x90d880637350a8bd    0t0
TCP          macbook-pro.localdomain:65115->glebs-
ipad-2.localdomain:59156 (ESTABLISHED)
SetappAge    555 greys    3u  IPv4 0x90d880637c43c53d    0t0
TCP localhost:codasrv (LISTEN)
SetappAge    555 greys    5u  IPv6 0x90d8806379b196fd    0t0
TCP localhost:codasrv (LISTEN)
Spillo       637 greys    9u  IPv4 0x90d880637350bbbd    0t0
TCP *:8490 (LISTEN)

```

Show TCP Connections of Specific Process

For individual processes, it's easier to just show everything `lsof` can find about a process and then `grep` for TCP.

I have an SSH session to one of my local systems:

```

greys@MacBook-Pro:/$ ps -aef | grep ssh
501 11070 11053 0 8:35pm ttys008 0:05.59 ssh server

```

... so this [lsof command example](#) shows me that this process PID=11070 has TCP session open to [ssh port \(22\)](#) on `server.localdomain` server ([MacOS](#) adds `localdomain` everywhere):

```

greys@MacBook-Pro:/$ lsof -p 11070 | grep TCP
ssh 11070 greys 3u IPv4 0x90d880638e66623d 0t0 TCP macbook-
pro.localdomain:63830->server.localdomain:ssh (ESTABLISHED)

```

Pretty cool!

See Also

- [lsof command](#) (work in progress)

- [How To Use lsof](#)
- [Advanced Unix Commands](#)