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How do I find out what ports are listening/open on my Linux / FreeBSD server?

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This entry is part 3 of 2 in the series Linux Service Management [1]

Linux Service Management [1]

- Linux Restart IMAP Services (dovecot IMAP server) [2]
- How do I find out what ports are listening/open on my Linux / FreeBSD server?

Q. How do I find open ports on Linux / FreeBSD server?

A. There are different commands on both Linux and UNIX server to find out what tcp/udp ports are listening or open on your own server. You can use netstat command, which print network connections, routing tables, interface statistics, masquerade connections, and multicast memberships etc. Another (and suggested) option is to use lsof command, which list open files, and ports on Linux, FreeBSD, Solaris and other Unixish systems.

netstat command to find open ports

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```
# netstat --listen
```

Display open ports and established TCP connections:

```
$ netstat -vatn
```

For UDP port try following command:

```
$ netstat -vaun
```

If you want to see FQDN, remove -n flag:

```
$ netstat -vat
```

lsof Command Examples

Display list of open ports

```
# lsof -i
```

To display all open files, use:

```
# lsof
```

To display all open IPv4 network files in use by the process whose PID is 9255, use:

```
# lsof -i 4 -a -p 9255
```

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