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## Linux / UNIX: List Open Files for Process

Posted by [Vivek Gite](#) <[vivek@nixcraft.com](mailto:vivek@nixcraft.com)>

**Q.** How do I list all open files for a Linux or UNIX process using command line options?

**A.** Both Linux and UNIX like operating systems comes with various utilities to find out open files associated with process.

### Task: UNIX List Open Files For Process

[1]

First use `ps` command to get PID of process, enter:

```
$ ps -aef | grep {process-name}
$ ps -aef | grep httpd
```

Next pass this PID to `pfiles` command,

```
$ pfiles {PID}
$ pfile 3533
```

### Task: Linux List Open Files For Process

First you need to find out PID of process. Simply use any one of the following command to obtain process id:

```
# ps aux | grep {program-name}
```

OR

```
$ ps -C {program-name} -o pid=
```

For example, find out PID of firefox web-browser, enter:

```
$ ps -C firefox -o pid=
```

Output:

```
7857
```

To list open files for firefox process, enter:

```
$ ls -l /proc/7857/fd
```

Sample output:

```
total 0
lr-x----- 1 vivek vivek 64 2008-03-05 22:31 0 -> /dev/null
l-wx----- 1 vivek vivek 64 2008-03-05 22:31 1 -> pipe:[18371]
lr-x----- 1 vivek vivek 64 2008-03-05 22:31 10 -> /usr/lib/firefox/firefox
l-wx----- 1 vivek vivek 64 2008-03-05 22:31 2 -> pipe:[18371]
```

### lsof command

`lsof` command list open files under all Linux distributions or UNIX like operating system. Type the following command to list open file for process ID 351:

```
$ lsof -p 351
```

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