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**How do I kill the process currently using a port on localhost in Windows?****Ask Question**

Asked 5 years ago Active 1 month ago Viewed 1.7m times

How can I remove the current process/application which is already assigned to a port?

840 For example: `localhost:8080``windows cmd localhost port command-prompt`

484

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edited Jan 20 '20 at 9:21

 Peter Mortensen  
29k 21 96 124

asked Sep 22 '16 at 7:19

 KavinduWije  
27.2k 4 11 16
41 `npx kill-port 8080` – Rishabh Agarwal Oct 15 '20 at 19:22

npx kill-port 8080 is working for me also – Deepak Apr 28 at 7:46

apparently, npx kill-port is either not working at all or can't kill processes that have elevated privileges, for Windows 10. – Pavindu Jun 28 at 2:53

Add a comment

**27 Answers**

Active Oldest Votes

**Step 1:**1862 Open up cmd.exe (note: you *may* need to run it as an administrator, but this isn't always necessary), then run the below command:`netstat -ano | findstr :<PORT>`(Replace `<PORT>` with the port number you want, but keep the colon)

```
C:\WINDOWS\system32>netstat -ano | findstr :8080
  TCP  0.0.0.0:8080          0.0.0.0:0      LISTENING
  TCP  [::]:8080           [::]:0       LISTENING

```

3740

3740

The area circled in red shows the PID (process identifier). Locate the PID of the process that's using the port you want.

**Step 2:**

Next, run the following command:

`taskkill /PID <PID> /F`

(No colon this time)

```
C:\WINDOWS\system32>taskkill /PID 3740 /F
SUCCESS: The process with PID 3740 has been terminated.
```

Lastly, you can check whether the operation succeeded or not by re-running the command in "Step 1". If it was successful you shouldn't see any more search results for that port number.

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edited Jul 17 '20 at 11:31

 Mujeeb  
705 6 14

answered Sep 22 '16 at 7:59

 KavinduWije  
27.2k 4 11 16
44 I had to enter escape characters when running taskkill: `taskkill //PID 12552 //F` – Robert Feb 15 '18 at 15:26

1 accepted answer will not work for services which are set up to restart on failure (this is not linux) – nurettin Apr 20 '18 at 10:42

1 I got processId 0 on port 80. If I try to kill it I get "ERROR: The process with PID 0 could not be terminated. Reason: This is critical system process. Taskkill cannot end this process." – Tattyjs Nov 28 '18 at 10:49

2 2020-04-03, Windows10, Python 3.6.6, using Git Bash: confirming that using the double forward slash worked for me as well. I needed to kill a Flask app process on `localhost:5000` that didn't terminate. e.g. `taskkill //F //PID 16660`. – VISQL Apr 3 '20 at 17:321 i think you meant `PID_NUMBER` and not `PORT_NUMBER` in `taskkill /PID PORT_NUMBER /F` – Marcin Kulik May 4 '20 at 16:16

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**Step 1 (same is in accepted answer written by KavinduWije):**

171

```
netstat -ano | findstr :yourPortNumber
```

Change in Step 2 to:

```
taskkill typeyourPIDhere
```

Note: `taskkill` is not working in some git bash terminal

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edited Jun 20 '20 at 9:12

Community Bot  
1 ● 1

answered Sep 21 '17 at 11:20

afarkhan10182  
1,873 ● 1 ● 10 ● 15

3 This is the solution that worked for me. I'm using GIT Bash. – dkhans5 Jun 19 '18 at 17:13

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**With Windows 10 default tools:**

137

- Step one:

Open Windows PowerShell as Administrator

- Step two:

Find PID (ProcessID) for port 8080:

```
netstat -an | findstr 8080
```

```
TCP 0.0.0.0:8080 0.0.0.0:0 LISTEN 77777
```

- Step three:

Kill the zombie process:

```
taskkill /f /pid 77777
```

where "77777" is your PID

Share Improve this answer Follow

edited Feb 7 '20 at 14:37

answered Mar 18 '19 at 10:01

Java  
1,957 ● 1 ● 7 ● 19

2 How to automate the process and combine these two commands together in one bat file if there is no possibility to view the cmd output and then write new command manually? – Serob\_b Sep 20 '19 at 18:59

4 @Serob\_b set /p port="Enter port: " -> Input port FOR /F "tokens=5" %%T IN ('netstat -an | findstr %port% ') DO ( SET /A ProcessId=%%%T% & GOTO SkipLine :SkipLine -> Extracts PID into variable taskkill /f /pid %ProcessId% -> Kills the task cmd /k -> Keep the window open – Vikrant Jan 10 '20 at 5:44

@Vikrant Is there a way to hide all the commands and just show "Enter port: " and "SUCCESS: The process with PID 35264 has been terminated."? – CrazyVideoGamer Jul 10 '20 at 13:51

1 @CrazyVideoGamez @echo off – VB\_Dojnajz Jul 29 '20 at 9:36

1 It worked for Windows 10 – Niraj Patel Jun 8 at 4:55

Add a comment

expected

Are 3 days to recover from a surf lesson too many?

Question feed

### If you are using GitBash

109 Step one:

```
netstat -ano | findstr :8080
```

Step two:

```
taskkill /PID typeyourPIDhere /F
```

(`/F` forcefully terminates the process)

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edited May 4 '18 at 13:56

 Uchenna Nwanyanwu  
3,134 ● 3 ● 31 ● 58

answered Sep 17 '17 at 19:55

 Ara Yaghsizian  
1,209 ● 1 ● 7 ● 10

3 @kylexy1357 try with a single slash. The "double slash" is an escape character that precedes the `/`, which is not needed for some shells – Robert Feb 15 '18 at 15:30

Add a comment

There are two ways to kill the processes

93 Option 01 - Simplest and easiest

Requirement : `npm@5.2.0^` version

Open the Command prompt as Administrator and give the following command with the port (Here the port is 8080)

```
npx kill-port 8080
```

Option 02 - Most commonly used

- Step 01

Open Windows command prompt as Administrator

- Step 02

Find the PID of the port you want to kill with the below command: Here port is 8080

```
netstat -ano|findstr "PID :8080"
```

TCP 0.0.0.0:8080 0.0.0.0:0 LISTENING 18264

- Step 03

Kill the PID you received above with the below command (In my case PID is 18264)

```
taskkill /PID 18264 /f
```

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edited Jul 5 at 14:05

answered Jul 21 '20 at 4:16

 Nirosan Ratnayake  
1,605 ● 1 ● 11 ● 15

Add a comment

If you already know the port number, it will probably suffice to send a software termination signal to the process (SIGTERM):

44

```
kill $(lsof -t -i :PORT_NUMBER)
```

Share Improve this answer Follow

answered Dec 19 '18 at 7:43

 Fellow Stranger  
26.7k ● 23 ● 140 ● 198

If you know the port is using IPv4 you can do an `lsof -nt -i4TCP:9001` as well. – Josh Habdas Feb 24 '19 at 4:29

1 I had to do kill -9 \$(lsof -t -i :PORT\_NUMBER) – gunes Jul 22 '20 at 8:31

1 Thank you, so much overkill in other answers. Literally just need this scripted – Shardj Feb 9 at 23:50

The term 'lsof' is not recognized as a name of a cmdlet, function, script file – GovGoyl Aug 16 at 13:56

Add a comment

Simple CMD is working me. Easy to remember

35 find the port number which you want kill and run the below cmd

```
npx kill-port 8080
```

After complete the Port get stopped and getting this message

```
npx: installed 3 in 13.796s  
Process on port 8080 killed
```

Share Improve this answer Follow

edited Jun 8 at 20:50

 ux.engineer  
6,388 ● 7 ● 50 ● 102

answered Apr 28 at 7:45

 Deepak  
441 ● 6 ● 15

1 worked perfectly thank you – Jesse Reza Khorasanee Apr 30 at 0:04

1 works perfectly !! short and effective ! – Saurabh Chaturvedi May 6 at 6:56

Add a comment

For use in command line:

34

```
for /f "tokens=5" %a in ('netstat -an | find ":8080" ^| find "LISTENING"') do taskkill /t
```

For use in bat-file:

```
for /f "tokens=5" %%a in ('netstat -an ^| find ":8080" ^| find "LISTENING"') do taskkill ,
```

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edited Sep 21 '18 at 18:23

 marvedly  
53 ● 5

answered Jun 29 '18 at 10:10

 Mahesh Narwade  
519 ● 5 ● 7

1 If you want to do it in a .bat, replace %%a for %%%a – Mahesh Narwade Jun 29 '18 at 10:10

1 This answer was the only one line command to work for me so it's really good. I have a task running on two ports which cause the error "ERROR: The process "6552" not found." because the task has already been exited. – tscpp Jun 29 '20 at 7:15

Need really far scroll down to get a "programmatic" answer like this. BTW what is tokens=5 ? – Timo Mar 30 at 17:45

Add a comment

In Windows PowerShell version 1 or later to stop a process on port 3000 type:

32

```
Stop-Process ((netstat -ano | findstr :3000).split() | foreach {$($_.length-1)}) -Force
```

As suggested by @morganpdx here's a more PowerShell-ish, better version:

```
Stop-Process -Id (Get-NetTCPConnection -LocalPort 3000).OwningProcess -Force
```

Share Improve this answer Follow

edited Jan 18 '18 at 7:40

answered Dec 8 '17 at 15:54

 todorm  
454 ● 4 ● 6

```
'Stop-Process' is not recognized as an internal or external command, – Green Jan 10 '18 at 20:56
```

4 I find that this works: Stop-Process -Id (Get-NetTCPConnection -LocalPort 3000).OwningProcess -Force – morganpdx Jan 11 '18 at 7:25

Add a comment

Open command prompt and issue below command

20

```
netstat -ano|findstr "PID :8888"
```

Output will show the process id occupying the port

Proto	Local Address	Foreign Address	State	PID
TCP	0.0.0.0:8888	0.0.0.0:0	LISTENING	8912
TCP	[::]:8888	[::]:0	LISTENING	8912

Issue below command to kill the PID

```
taskkill /pid 8912 /f
```

You will receive the output as below

SUCCESS: The process with PID 8860 has been terminated.

Share Improve this answer Follow

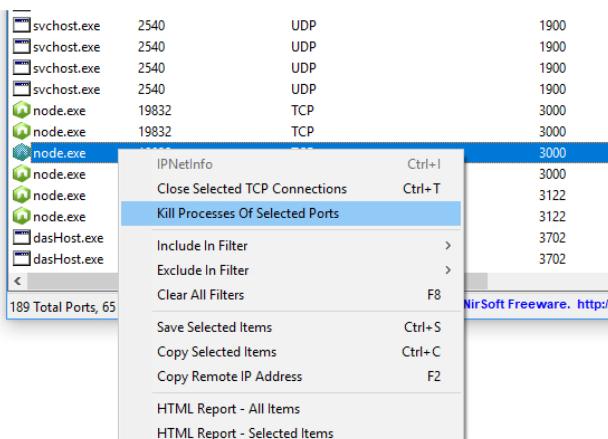
answered Mar 31 at 13:08

 Waqas Ahmed  
3,953 ● 3 ● 31 ● 44

Add a comment

For Windows users, you can use the [CurrPorts](#) tool to kill ports under usage easily:

15



Share Improve this answer Follow

edited Jan 20 '20 at 9:34

 Peter Mortensen  
29k ● 21 ● 96 ● 124

answered Oct 3 '18 at 11:43

 Zuhair Taha  
1,979 ● 1 ● 26 ● 29

Add a comment

If you can use PowerShell on Windows you just need :

14

```
Get-Process -Id (Get-NetTCPConnection -LocalPort "8080").OwningProcess | Stop-Process
```

Share Improve this answer Follow

answered Oct 27 '20 at 10:20

 Emanuele Fricano  
216 ● 2 ● 5

1 One-liner, done the right way – [Timo](#) Mar 30 at 17:47

Add a comment

I was running zookeeper on Windows and wasn't able to stop [ZooKeeper](#) running at 2181 port using `zookeeper-stop.sh`, so tried this double slash "://" method to taskkill. It worked

11

```
1. netstat -ano | findstr :2181
    TCP    0.0.0.0:2181          0.0.0.0:0              LISTENING      8876
    TCP    [::]:2181           [::]:0                 LISTENING      8876

2.taskkill //PID 8876 //F
SUCCESS: The process with PID 8876 has been terminated.
```

Share Improve this answer Follow

edited Jan 20 '20 at 9:52

 Peter Mortensen  
29k ● 21 ● 96 ● 124

answered Dec 6 '18 at 4:29

 driven\_spider  
475 ● 4 ● 15

Add a comment

If you're using [Windows Terminal](#) then the killing process might be little less tedious. I've been using windows terminal and `kill PID` works fine for me to kill processes on the port as the new Windows Terminal supports certain bash commands. For example: `kill 13300`

9

So, the complete process will look like this-

⌚

- Open Windows Terminal
- Type the following command to show processes running on the port you're looking to kill processes. `netstat -ano | findstr :PORT`
- Type following to kill the process. `kill PID`

For Example:

```
PS C:\Users\username> netstat -ano | findstr :4445
    TCP    0.0.0.0:4445          0.0.0.0:0              LISTENING      7368
    TCP    [::]:4445           [::]:0                 LISTENING      7368
PS C:\Users\username> kill 7368
PS C:\Users\username> netstat -ano | findstr :4445
PS C:\Users\username>
```

See when I typed the first command to list processes on the port it returned empty. That means all processes are killed now.

Update: `kill` is an alias for [Stop-Process](#). Thanks, @FSCKur for letting us know.

Share Improve this answer Follow

edited Jan 27 at 4:52

answered May 21 '20 at 9:55

 **lazycipher**  
300 ● 3 ● 11

I know this works because I tested it, I'm trying to find documentation around it, do you have any?  
– [DanStarns](#) May 26 '20 at 10:40

@DanStarns, I've found only this so far! [docs.microsoft.com/en-us/windows/terminal](#) – [lazycipher](#) May 26 '20 at 21:38

Thanks for your time, it's not quite the page I'm looking for, a page with all the functions provided in the terminal such as `kill`. I'll post here if I find. – [DanStarns](#) May 27 '20 at 4:37

1 I haven't found much about this as of now. Please post if you find anything. – [lazycipher](#) May 28 '20 at 6:10

I have to downvote because of your confusion about `kill`. It's NOTHING to do with your choice of terminal. As any fool knows, in PS you use Get-Command to understand what command you're running, and it shows you that, on Windows, kill is an alias for Stop-Process. On Linux it's not an alias but the native command.  
– [FSCKur](#) Jan 22 at 21:21

Show 2 more comments

Run cmd as administrator. Then type this code in there.

9 `netstat -ano | findstr :<8080>`

Then you can see the PID run on your port. Then copy that PID number. ( PID is a unique number that helps identify a hardware product or a registered software product.) And type below code line and press enter.

`taskkill /PID <Enter the copied PID Number> /F`

Share Improve this answer Follow

answered Jun 10 at 18:13

 **Chandima Samarakoon**  
169 ● 2 ● 8

Add a comment

## Let's Automate!

7 If you fall into this issue much often like me, make an .bat file and run it to end process.

### create a bat file "killport.bat"

```
set /P port="Enter port : "
echo showing process running with port %port%
netstat -ano|findstr "PID :%port%"
set /P pid="Enter PID to kill : "
taskkill /pid %pid% /f
set /P exit="Press any key to exit..."
```

Run this file by double clicking and

1. Enter port number (then it will list process with PID)
2. Enter PID to kill

Done

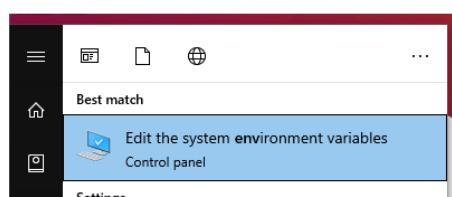
## (Optional)

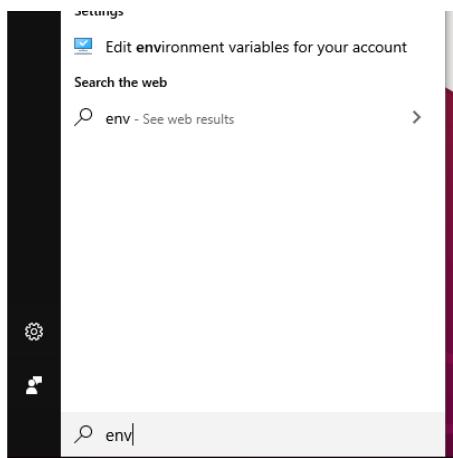
Set to path environment so that you can access this file from anywhere.

Most probably you will know how to add a new path to env. But here's how if you don't

### Step 1 of 4

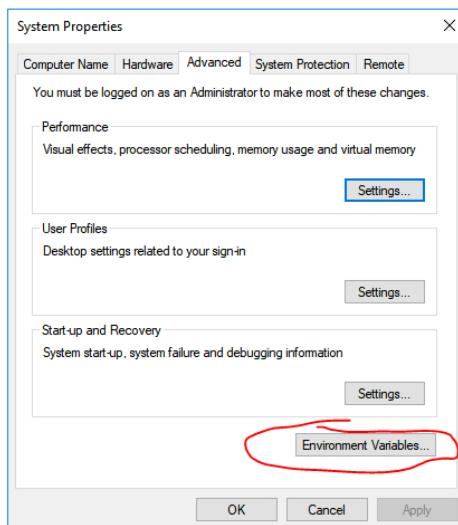
Search ENV on start menu





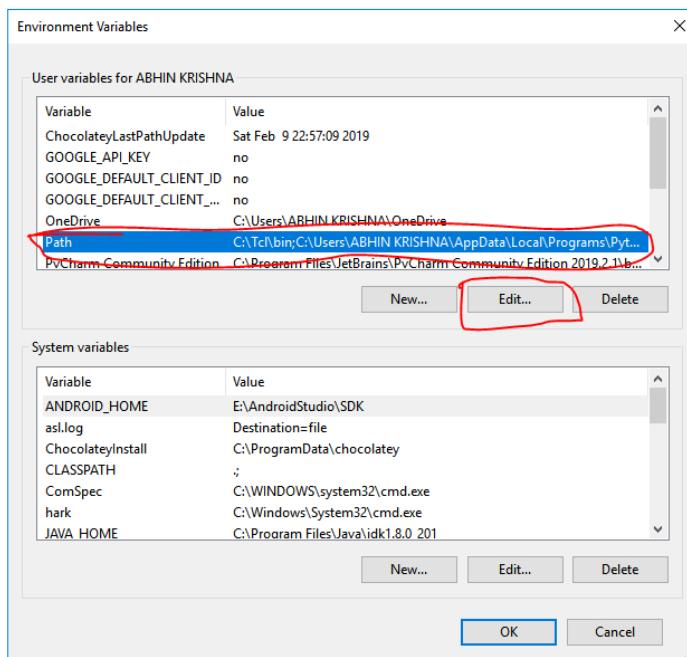
### Step 2 of 4

Select Environment Variables



### Step 3 of 4

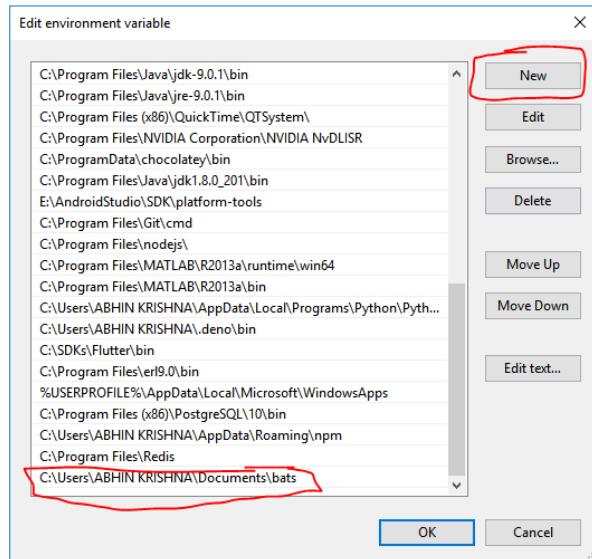
Select 'path' and click Edit button



### Step 4 of 4

Click 'New' add the path where .bat file is stored. Since I saved it on '../Documents/bats' folder I am

adding this path. Your path will depend on where you save this file.



Open CMD and test. Remember you filename will be the word to run this file. Since I saved the .bat file as 'killport.bat' => 'killport' is the word to run it.

```
C:\Users\ABHIN KRISHNA>killport
C:\Users\ABHIN KRISHNA>set /P port="Enter port : "
Enter port : 8000
C:\Users\ABHIN KRISHNA>echo process on port 8000
process on port 8000
C:\Users\ABHIN KRISHNA>netstat -ano | findstr "PID :8000"
  Proto  Local Address          Foreign Address        State      PID
  TCP    0.0.0.0:8000           0.0.0.0:0             LISTENING  17488
  TCP    [::]:8000             [::]:0                LISTENING  17488
C:\Users\ABHIN KRISHNA>set /P pid="Enter PID to kill : "
Enter PID to kill : 17488
C:\Users\ABHIN KRISHNA>taskkill /pid 17488 /f
SUCCESS: The process with PID 17488 has been terminated.
C:\Users\ABHIN KRISHNA>set /P exit="Press any key to exit..."
Press any key to exit...
```

if do enjoy! else share how you done it here

Share Improve this answer Follow

edited May 10 at 10:52

 Dharman  
23.9k ● 20 ○ 60 ● 112

answered May 10 at 10:46

 Abhin Krishna KA  
397 ● 3 ○ 10

Add a comment

You can do by run a bat file:

5

```
@ECHO OFF
FOR /F "tokens=5 %%T IN ('netstat -a -n -o ^| findstr "9797" ') DO (
SET /A ProcessId=%%T) &GOTO SkipLine
:SkipLine
echo ProcessId to kill = %ProcessId%
taskkill /f /pid %ProcessId%
PAUSE
```

Share Improve this answer Follow

answered Dec 5 '18 at 7:53

 flopcoder  
1,115 ● 10 ○ 19

Add a comment

In case you want to do it using Python: check [Is it possible in python to kill process that is listening on specific port, for example 8080?](#)

4

The answer from [Smunk](#) works nicely. I repeat his code here:

①

```
from psutil import process_iter
from signal import SIGTERM # or SIGKILL

for proc in process_iter():
    for conn in proc.connections(kind='inet'):
        if conn.laddr.port == 8080:
            proc.send_signal(SIGTERM) # or SIGKILL
            continue
```

Share Improve this answer Follow

edited Jan 20 '20 at 9:25

 Peter Mortensen  
29k 21 96 124

answered Jul 1 '18 at 7:51

 Kardi Teknomo  
1,035 12 19

This worked for a socket that uses a particular port number in Google Cloud as well! Thanks a ton – [peevesy](#)  
Apr 19 '20 at 1:12

Add a comment

the first step

4

```
netstat -vnap tcp | grep 8888
```

example

⌚

```
tcp4      0      0      127.0.0.1.8888    *.*      LISTEN     131072 131072 76061      0
tcp46     0      0      *.8888           *.*      LISTEN     131072 131072 50523      0
```

the second step: find your PIDs and kill them

in my case

```
sudo kill -9 76061 50523
```

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answered Aug 25 '20 at 19:35

 ruscon  
79 2 9

5 Even if this is a correct answer. The question was asked for windows environment and your answer is invalid on a Linux system. – [Pranav Raut](#) Aug 29 '20 at 10:37

Add a comment

```
netstat -ano | findstr :PORT
kill PI
```

4

Share Improve this answer Follow

answered Oct 30 '20 at 11:31

 harun ugur  
1,317 13 15

Add a comment

One line solution using **GitBash**:

3

```
tskill `netstat -ano | grep LISTENING | findstr :8080 | sed -r 's/(\s+[^\\s]+){4}(.*)/\\1/'`
```

⌚ Replace **8080** with the port your server is listening to.

If you need to use it often, try adding to your `~/.bashrc` the function:

```
function killport() {
    tskill `netstat -ano | findstr LISTENING | findstr :$1 | sed -r 's/^(\s+[^\\s]+){4}(.*)/\1/'`
```

and simply run

```
killport 8080
```

Share Improve this answer Follow

edited May 20 '20 at 21:47

answered May 20 '20 at 21:04

 Italo Borsatto  
13.2k 6 60 81

This worked perfectly for me. Thanks! – [Marco Principio](#) Dec 2 '20 at 19:52

I got the error: `bash: taskkill: command not found` – [Chau Giang](#) Oct 7 at 5:27

@ChauGiang It seems a typo. Use `tskill` instead of `taskkill`. – [Italo Borsatto](#) Oct 7 at 11:32

Add a comment

The simplest solution — the only one I can ever remember:

3

In Windows Powershell

⌚ Say we want to stop a process on port **8080**

1. Get the process:

```
netstat -ano | findstr :8080
```

## 2. Stop the process

```
stop-process 82932
```

Share Improve this answer Follow

edited Sep 3 at 16:41

answered Sep 3 at 15:38

 Luke Garrigan  
2,720 ● 1 ● 13 ● 24

Add a comment

I followed this answer: <https://stackoverflow.com/a/37626811/7286223>

1

```
netstat -ano
```

will list all the protocols, ports, and processes listening.

Instead, use this:

```
netstat -plten
```

Here, we find the port and its pid. Then we can kill that process by typing

```
kill -9 pid
```

here **-9** means soft remove.

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edited Sep 7 at 4:31

answered Sep 5 at 10:48

 Raihanul Alam Hridoy  
131 ● 2 ● 11

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Here is a script to do it in WSL2

0

```
PIDS=$(cmd.exe /c netstat -ano | cmd.exe /c findstr :$1 | awk '{print $5}')
for pid in $PIDS
do
    cmd.exe /c taskkill /PID $pid /F
done
```

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answered Aug 14 '20 at 9:59

 MyrionSC2  
1,155 ● 1 ● 10 ● 16

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I wrote a tiny node js script for this. Just run it like this: `node killPort.js 8080` or whatever port you need to kill. Save the following to a `killPort.js` file:

0

```
const { exec } = require('child_process');
const fs = require('fs');

const port = process.argv.length > 2 ? process.argv[2] : '';
if (!port || isNaN(port)) console.log('port is required as an argument and has to be a number');
else {
  exec(`netstat -ano | findstr :${port}`, (err, stdout, stderr) => {
    if (!stdout) console.log(`nobody listens on port ${port}`);
    else {
      const res = stdout.split(`\n`).map(s => s.trim());
      const pid = res.map(s => s.split(' ').pop()).filter(s => s.pop());
      console.log(`Listener of ${port} is found, its pid is ${pid}, killing it...`);
      exec(`taskkill /PID ${pid} /F`, (err, stdout, stderr) => {
        if (!stdout) console.log(`we tried to kill it, but not sure about the result`);
        else console.log(stdout);
      })
    }
  });
}
```

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answered Aug 31 at 9:11

 shal  
2,297 ● 3 ● 16 ● 25

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We can avoid this by simple restarting IIS, using the below command:

-3

```
IISRESET
```

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edited Jan 20 '20 at 9:32

 Peter Mortensen  
29k ● 21 ● 96 ● 124

answered Aug 21 '18 at 12:31

 ksrider148  
47 ● 1 ● 9

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