

How to find the process ID of a Chrome browser tab or extension

Author : Dan Nanni

Categories : [Web](#)

Tagged as : [chromeprocess](#)

Question: I notice that my Google Chrome browser sometimes uses 100% of CPU core, and I want to find out which browser tab or extension is causing this problem. How can I find the process ID assigned to each Chrome browser tab or plugin?

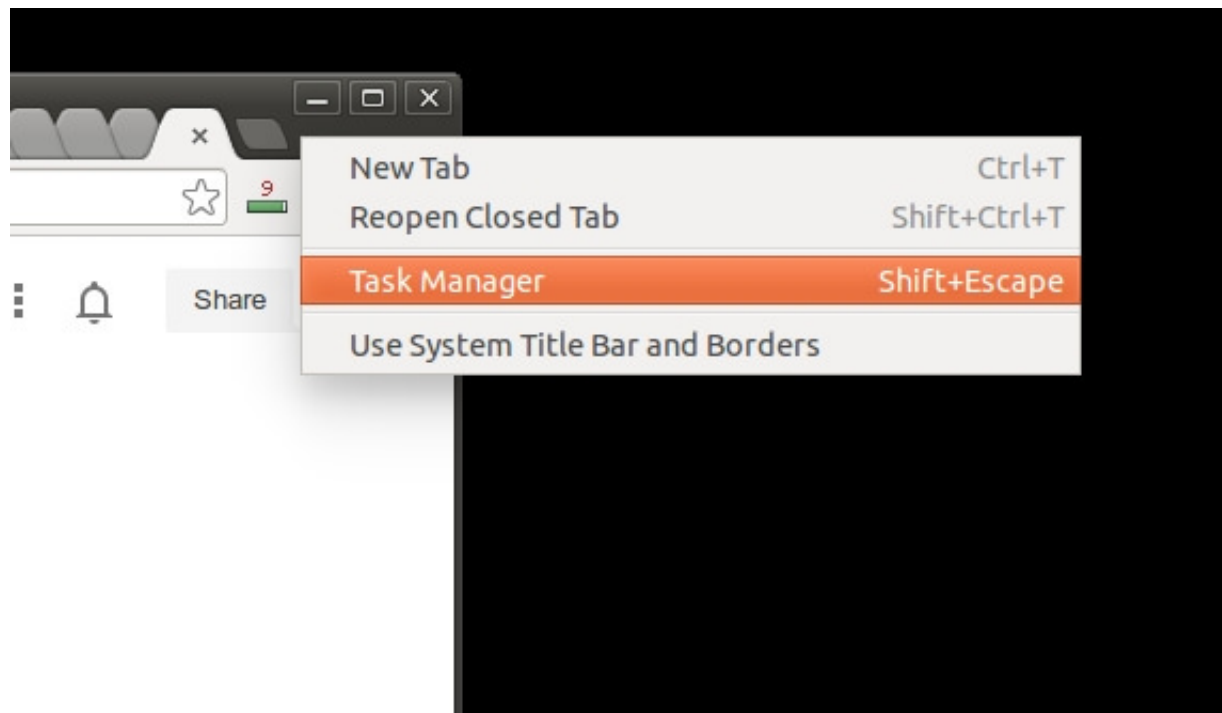
Google Chrome web browser is built on a multi-process architecture, where different browser tabs, renderers, and extensions are separated out into distinct process sandboxes for security purpose.

Since Chrome web browser runs as multiple processes, it becomes tricky to identify which browser session is the culprit when Chrome goes awry, using up 100% CPU resources.

There are two ways to find out which browser tab or plug-in/extension is associated with which process.

Method One

Right click on the tab bar of Google Chrome, and choose "Task Manager".

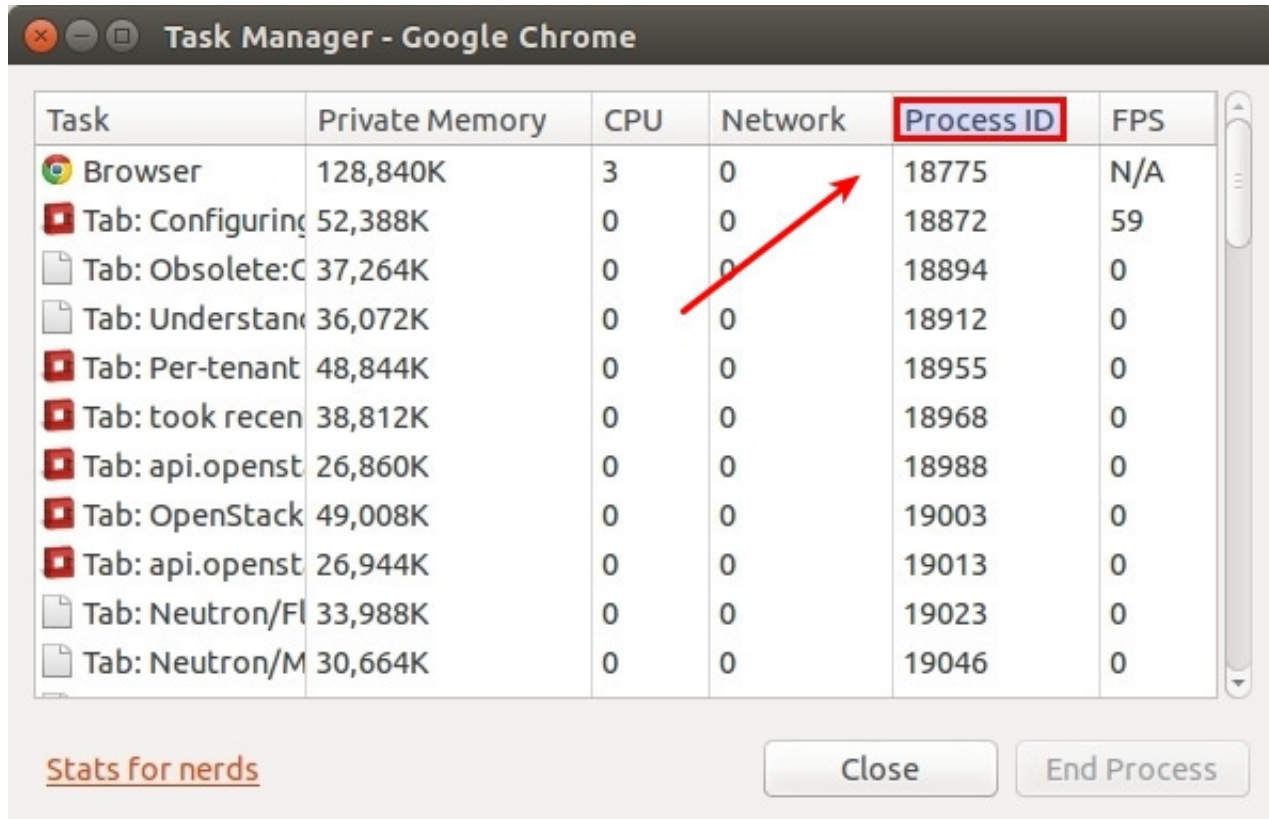


Ask Xmodulo

Find answers to commonly asked Linux questions
<http://ask.xmodulo.com>

Alternatively, you can also press to open "Task Manager" window directly.

The "Task Manager" window shows a list of tasks (browser tabs or extensions), along with task-specific information. Under "Process ID" column, you can find the process ID of each tab or active extension.



The screenshot shows the "Task Manager - Google Chrome" window. It contains a table with the following data:

Task	Private Memory	CPU	Network	Process ID	FPS
Browser	128,840K	3	0	18775	N/A
Tab: Configur...	52,388K	0	0	18872	59
Tab: Obsolete:...	37,264K	0	0	18894	0
Tab: Understand...	36,072K	0	0	18912	0
Tab: Per-tenant...	48,844K	0	0	18955	0
Tab: took recen...	38,812K	0	0	18968	0
Tab: api.openst...	26,860K	0	0	18988	0
Tab: OpenStack...	49,008K	0	0	19003	0
Tab: api.openst...	26,944K	0	0	19013	0
Tab: Neutron/Fl...	33,988K	0	0	19023	0
Tab: Neutron/M...	30,664K	0	0	19046	0

At the bottom of the window, there is a link for "Stats for nerds" and two buttons: "Close" and "End Process". A red arrow points to the "Process ID" column header.

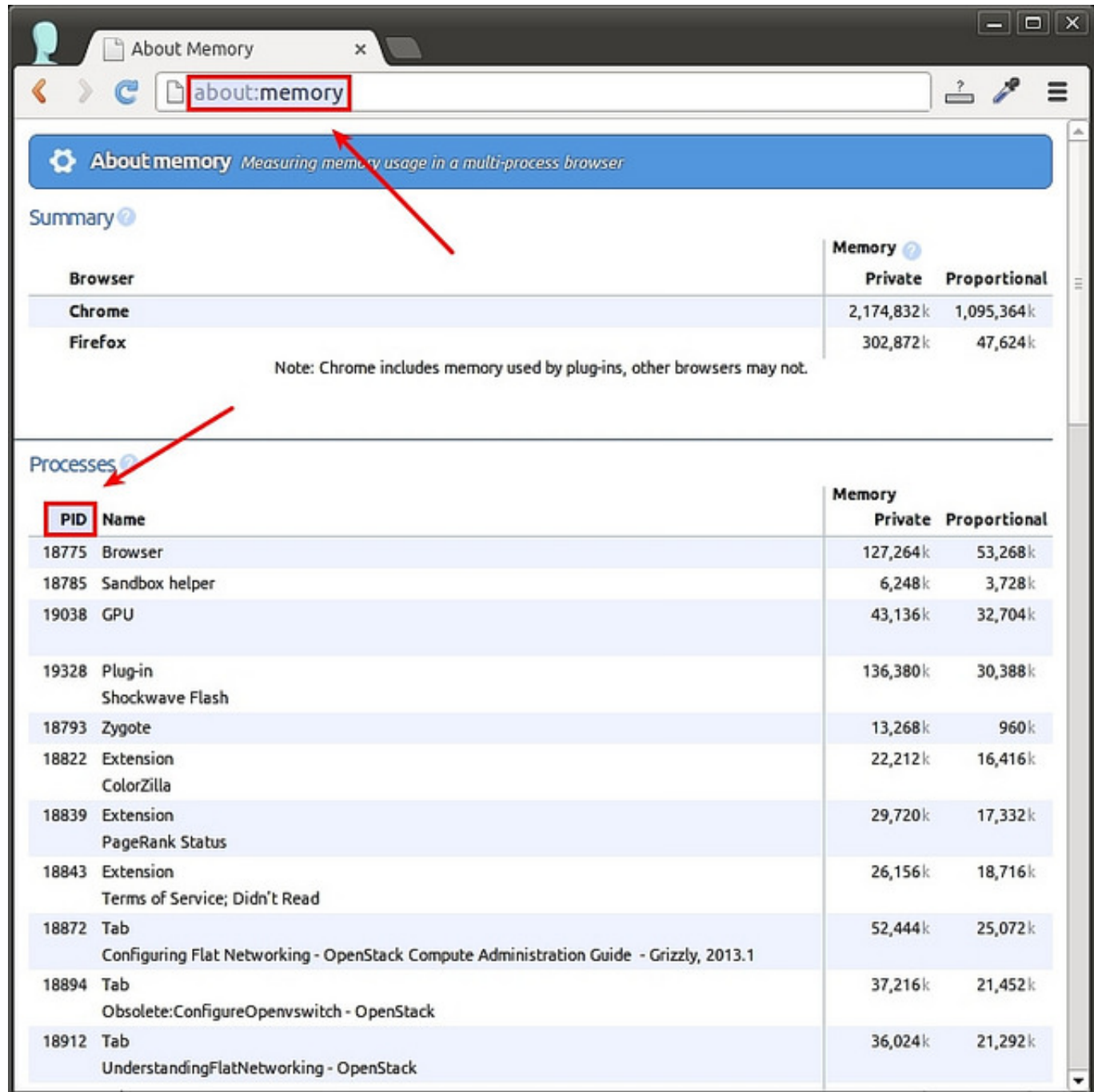
Method Two

Type "about:memory" in the browser address bar, and you can get detailed breakdown of the CPU/memory usage of each browser tab and extension, along with its process ID. From the breakdown, you can identify which browser tab or extension is the culprit for excessive CPU.

Ask Xmodulo

Find answers to commonly asked Linux questions

<http://ask.xmodulo.com>



About memory *Measuring memory usage in a multi-process browser*

Summary

Browser	Memory	
	Private	Proportional
Chrome	2,174,832k	1,095,364k
Firefox	302,872k	47,624k

Note: Chrome includes memory used by plug-ins, other browsers may not.

Processes

PID	Name	Memory	
		Private	Proportional
18775	Browser	127,264k	53,268k
18785	Sandbox helper	6,248k	3,728k
19038	GPU	43,136k	32,704k
19328	Plug-in Shockwave Flash	136,380k	30,388k
18793	Zygote	13,268k	960k
18822	Extension ColorZilla	22,212k	16,416k
18839	Extension PageRank Status	29,720k	17,332k
18843	Extension Terms of Service; Didn't Read	26,156k	18,716k
18872	Tab Configuring Flat Networking - OpenStack Compute Administration Guide - Grizzly, 2013.1	52,444k	25,072k
18894	Tab Obsolete:ConfigureOpenvswitch - OpenStack	37,216k	21,452k
18912	Tab UnderstandingFlatNetworking - OpenStack	36,024k	21,292k