The term web server can refer to either the [hardware](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/wiki/Computer_hardware&usg=ALkJrhgvJWhcGDk30kkPNR9BZ2qisi50vg) (the computer) or the [software](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/wiki/Software&usg=ALkJrhhjD5A7J7unBLgNVMzqILdnlfYlzQ) (the computer application) that helps to deliver [web content](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/wiki/Web_content&usg=ALkJrhiuOx4wotVx_jodBZ57wi0vSy_XUQ) that can be accessed through the [Internet](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/wiki/Internet&usg=ALkJrhhJjj8Utkc1lDAC4pomZ4Uiu-3LJQ) . [[ 1 ]](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/wiki/Web_server&usg=ALkJrhhSdB8tTYhSZj7EcU4ETK0Y70U0Zw#cite_note-new-1) Il termine web server può riferirsi sia l' hardware (computer) o il software (applicazione computer) che aiuta a fornire contenuti web cui si può accedere attraverso Internet.

The most common use of web servers is to host [websites](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/wiki/Website&usg=ALkJrhi3fp1PDbWE-LVUJaNGiIkFZeYfsw) , but there are other uses such as [gaming](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/wiki/Online_game&usg=ALkJrhjPbUXPxg2NUzIOi2c5CicHEo63pA) , data storage or running [enterprise applications](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/wiki/Enterprise_software&usg=ALkJrhgUv2AagffC0RsbP325qC9HDZt6Bg) . L'uso più comune dei web server è quello di ospitare siti web, ma ci sono altri usi, quali il gioco , l'archiviazione dei dati o l'esecuzione di applicazioni aziendali.

Market share of major web servers

|  |  |
| --- | --- |
| Apache | Apache |
| IIS | Microsoft |
| Nginx | Nginx,Inc. |
| Gws | Google |

Un server web può essere sia implementato nel sistema operativo kernel, o in spazio utente (come altre applicazioni normali).

An [in-kernel web server](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/wiki/In-kernel_web_server&usg=ALkJrhhresSFa_hLK4mozkv9ZCChM9CCLg) (like Microsoft [IIS](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/wiki/Internet_Information_Services&usg=ALkJrhikCgY68GsUT-0R_U-heQ_OfT8KAA) on Windows or [TUX](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/wiki/TUX_web_server&usg=ALkJrhgzrFs7A92MRUj2DYSZR5wbV1IhNQ) on GNU/Linux) will usually work faster, because, as part of the system, it can directly use all the hardware resources it needs, such as non-paged memory, CPU time-slices, network adapters, or buffers.

Web servers that run in [user-mode](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/wiki/User-mode&usg=ALkJrhihYuYwgoKH06LUX7-Mvx-1PxCagQ) have to ask the system for permission to use more memory or more CPU resources. Web server che vengono eseguiti in modalità utente deve chiedere al sistema il permesso di utilizzare più memoria o più risorse della CPU. Not only do these requests to the kernel take time, but they are not always satisfied because the system reserves resources for its own usage and has the responsibility to share hardware resources with all the other running applications. Non solo queste richieste al kernel prendere tempo, ma non sono sempre soddisfatti perché le risorse di sistema riserva per il proprio uso e ha la responsabilità di condividere risorse hardware con tutte le altre applicazioni in esecuzione. Executing in user mode can also mean useless buffer copies which are another handicap for user-mode web servers. Esecuzione in modalità utente può anche significare copie tampone inutili che sono un altro handicap per i server web in modalità utente.

## Load limits [ [edit](http://translate.googleusercontent.com/translate_c?depth=1&hl=it&prev=/search%3Fq%3D2%2Bweb%2Bserver%26sa%3DX%26hl%3Dit%26rlz%3D1T4SAVJ_itIT507IT508%26biw%3D1075%26bih%3D641&rurl=translate.google.it&sl=en&u=http://en.wikipedia.org/w/index.php%3Ftitle%3DWeb_server%26action%3Dedit%26section%3D6&usg=ALkJrhhygv005zr5hdDmEu6ARGsyePgyZg) ]