What does upstream mean in nginx?

Asked 13 years, 11 months ago Modified 3 years, 6 months ago Viewed 261k times



```
upstream app_front_static {
    server 192.168.206.105:80;
}
```



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Never seen it before, anyone knows, what it means?



nginx configuration



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3 Answers

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It's used for proxying requests to other servers.

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An example from http://wiki.nginx.org/LoadBalanceExample is:





```
http {
   upstream myproject {
      server 127.0.0.1:8000 weight=3;
      server 127.0.0.1:8001;
      server 127.0.0.1:8002;
      server 127.0.0.1:8003;
   }

server {
    listen 80;
      server_name www.domain.com;
    location / {
        proxy_pass http://myproject;
    }
}
```

This means all requests for / go to the any of the servers listed under upstream XXX, with a preference for port 8000.

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edited Mar 27, 2017 at 16:10

answered May 4, 2011 at 2:56





- 3 why do you precise http {} ? My conf has not this and it works. Just wondering Olivier Pons Jun 16, 2017 at 7:56
- @OlivierPons maybe your config is /etc/nginx/conf.d/default.conf that is included in /etc/nginx/nginx.conf, which HAS http {} - srghma Mar 15, 2018 at 19:47



<u>upstream</u> <u>defines a cluster that you can proxy requests to</u>. It's commonly used for defining either a web server cluster for load balancing, or an app server cluster for routing / load balancing.

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Sn

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answered May 4, 2011 at 2:49



1



If we have a single server we can directly include it in the proxy_pass directive. For example:

33





server {
 ...
 location / {
 provy page bttp://102 168 206 105:80:

proxy_pass http://192.168.206.105:80;
...
}

But in case if we have many servers we use upstream to maintain the servers. Nginx will load-balance based on the incoming traffic, as shown in this answer.

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edited Sep 22, 2021 at 10:35

McLan

2,698 • 9 • 55 • 91

answered Oct 14, 2020 at 13:32



Thanks. I was trying to upstream for one backend server, got too many open file errors etc. This is what I wanted for a test setup proxying towards Mojolicious. – Hugh Barnard May 13, 2021 at 8:40

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