

CLI

```
nginx -c nginx
nginx -s quit nginx
nginx -s stop nginx
nginx -s reload
nginx -s reopen
nginx -t
nginx -T
nginx -V module
```

Serve Static Content

```
server {
    listen 80;
    server_name www.example.com;
    location / {
        #
        root /usr/share/nginx/html;
        index index.html index.htm;
    }
}
```

nginx

Http Load Balance

```
upstream backend {
    server 10.10.123.45 weight=1;
    server example.com weight=2;
}
server {
    location / {
        proxy_pass http://backend;
    }
}
```

TCP Load Balance

```
stream {
    upstream mysql_read {
        server r1.com:3306 weight=5;
        server r2.com:3306;
        server r3.com:3306 backup;
    }
    server {
        listen 3306;
        proxy_pass mysql_read;
    }
}
```

Limit Bandwidth

```
location /download/ {
    limit_rate_after 10m;
    limit_rate 1m;
}
```

10m, 1m/s

Access Based on IP Address

```
location /admin/ {
    deny 10.0.0.1;
    allow 10.0.0.0/20;
    deny all;
    ...
}
```

allow deny

HTTPS Redirects

```
server {
    listen 80 default_server;
    server_name a.com;
    return 301 https://$host$request_uri;
}
```

a.com http https



By [hulj \(hulj\)](#)
cheatography.com/hulj/

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HTTP Basic Authentication

```
#
openssl passwd ${password}
#
name1:password1:comment1
name2:password2:comment2
# nginx
location / {
    auth_basic "Private site";
    auth_basic_user_file conf.d/passwd;
}
```

```
- openssl passwd
- name:${ }:
- auth_basic_user_file ${file_path}
```

Health Check

```
upstream backend {
    server a.com:1234 max_fails=3 fail_timeout=3s;
    server b.com:1234 max_fails=3 fail_timeout=3s;
}
```

Health Check, fails with an error 3 , server

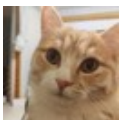
TCP Health Check

```
stream {
    server {
        listen 3306;
        proxy_pass read_backend;
        health_check interval=10 passes=2 fails=3;
    }
}
```

Health Check, 10 check, 2 Health

Use Includes for Clean Configs

```
http {
    include config.d/compression.conf;
    include sites-enabled/*.conf;
}
```



By [hulj \(hulj\)](https://cheatography.com/hulj/)
cheatography.com/hulj/

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