

# Nginx TCP/UDP

“ Nginx TCP/UDP

- CentOS Linux release 7.7.1908 (Core)
- Nginx: 1.19.2

## Nginx

1.9.0 nginx TCP 1.9.13 UDP ngx\_stream\_core Nginx

```
# http: //nginx. org/download/  
cd /usr/local/src  
wget http: //nginx. org/download/nginx-1. 19. 2. tar. gz  
tar xzf nginx-1. 19. 2. tar. gz  
cd nginx-1. 19. 2  
./configure --prefix=/usr/local/nginx --with-stream --without-http  
make && make install
```

“ Note http

## Nginx

### TCP

3000 Mysql( mysql yum )

/usr/local/nginx/conf/nginx.conf

```
user nobody;  
worker_processes auto;
```

```

#error_log logs/error.log;
#error_log logs/error.log notice;
#error_log logs/error.log info;

#pid logs/nginx.pid;

events {
    use epoll;
    worker_connections 1024;
}

stream {
    server {
        listen 3000;
        proxy_pass 127.0.0.1:3306;

        # socket
        # proxy_pass unix:/var/lib/mysql/mysql.socket;
    }
}

```

3306 mysql

```

[vagrant@master conf]$ !net
netstat -lnt |grep 3306
tcp        0      0 0.0.0.0:3306          0.0.0.0:*            LISTEN
[vagrant@master conf]$ mysql -uroot -P 3306
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 3
Server version: 5.1.73 Source distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> 成功登陆Mysql

```

Nginx

```
[vagrant@master conf]$ sudo /usr/local/nginx/sbin/nginx
[vagrant@master conf]$ netstat -lnt |grep 3000
tcp        0      0 0.0.0.0:3000          0.0.0.0:*            LISTEN
[vagrant@master conf]$
```

3000      mysql

```
[vagrant@master conf]$ mysql -uroot -P 3000
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 4
Server version: 5.1.73 Source distribution

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

成功登陆Mysql

## UDP

UDP    3000    3001

/usr/local/nginx/conf/nginx.conf

```
user  nobody;
worker_processes  auto;

#error_log  logs/error.log;
#error_log  logs/error.log  notice;
#error_log  logs/error.log  info;

#pid        logs/nginx.pid;

events {
    use epoll;
    worker_connections  1024;
}
```

```

stream {
    server {
        listen 3000 udp;
        proxy_pass 127.0.0.1:3001;
    }
}

```

`my_socket_server.py`      3001      UDP

```

# coding=utf-8

import socket

sock = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)

sock.bind(('127.0.0.1', 3001))

print('start server on [%s]:%s' % ('127.0.0.1', 3001))

while True:
    data, addr = sock.recvfrom(1024)
    print('Received from %s:%s' % (addr, data))
    sock.sendto(b'Hello, %s!' % data, addr)

```

`my_socket_client.py`      Nginx      3000

```

# coding=utf-8

import socket

s = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)

while True:
    data = raw_input('Input msg: ')
    if len(data) == 0:
        continue

```

```
s.sendto(data.encode(), ('127.0.0.1', 3000))
print (s.recv(1024).decode('utf-8'))
```

client

```
[vagrant@master ~]$ python2.6 my_socket_server.py
start server on [127.0.0.1]:3001
█
```

```
1 10.0.1.3 × +
[vagrant@master ~]$ python2.6 my_socket_client.py █
```

I

## UDP

client , 2000

```
# coding=utf-8

import socket

s = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)

for data in range(2000):
    s.sendto(str(data).encode(), ('127.0.0.1', 3000))
    print (s.recv(1024).decode('utf-8'))
```

client

```
1 10.0.1.3 [0] x 2 10.0.1.3 x +
Received from ('127.0.0.1', 60079):499
Received from ('127.0.0.1', 56929):500
Received from ('127.0.0.1', 48652):501
Received from ('127.0.0.1', 32955):502
Received from ('127.0.0.1', 58901):503
Received from ('127.0.0.1', 56313):504
Received from ('127.0.0.1', 45205):505
Received from ('127.0.0.1', 58452):506
Received from ('127.0.0.1', 34551):507
Received from ('127.0.0.1', 49370):508
Received from ('127.0.0.1', 40736):509
Received from ('127.0.0.1', 57851):510
█

1 10.0.1.3 x +
Hello, 499!
Hello, 500!
Hello, 501!
Hello, 502!
Hello, 503!
Hello, 504!
Hello, 505!
Hello, 506!
Hello, 507!
Hello, 508!
Hello, 509!
Hello, 510!
█
```

511

`listen` `backlog` Linux 511:

`backlog=number`

sets the `backlog` parameter in the `listen()` call that limits the maximum length for the queue of pending connections (1.9.2). By default, `backlog` is set to -1 on FreeBSD, DragonFly BSD, and macOS, and to 511 on other platforms.

1 10.0.1.3

`backlog` `udp`

Revision #2

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