# 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 zxf 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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owners.

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

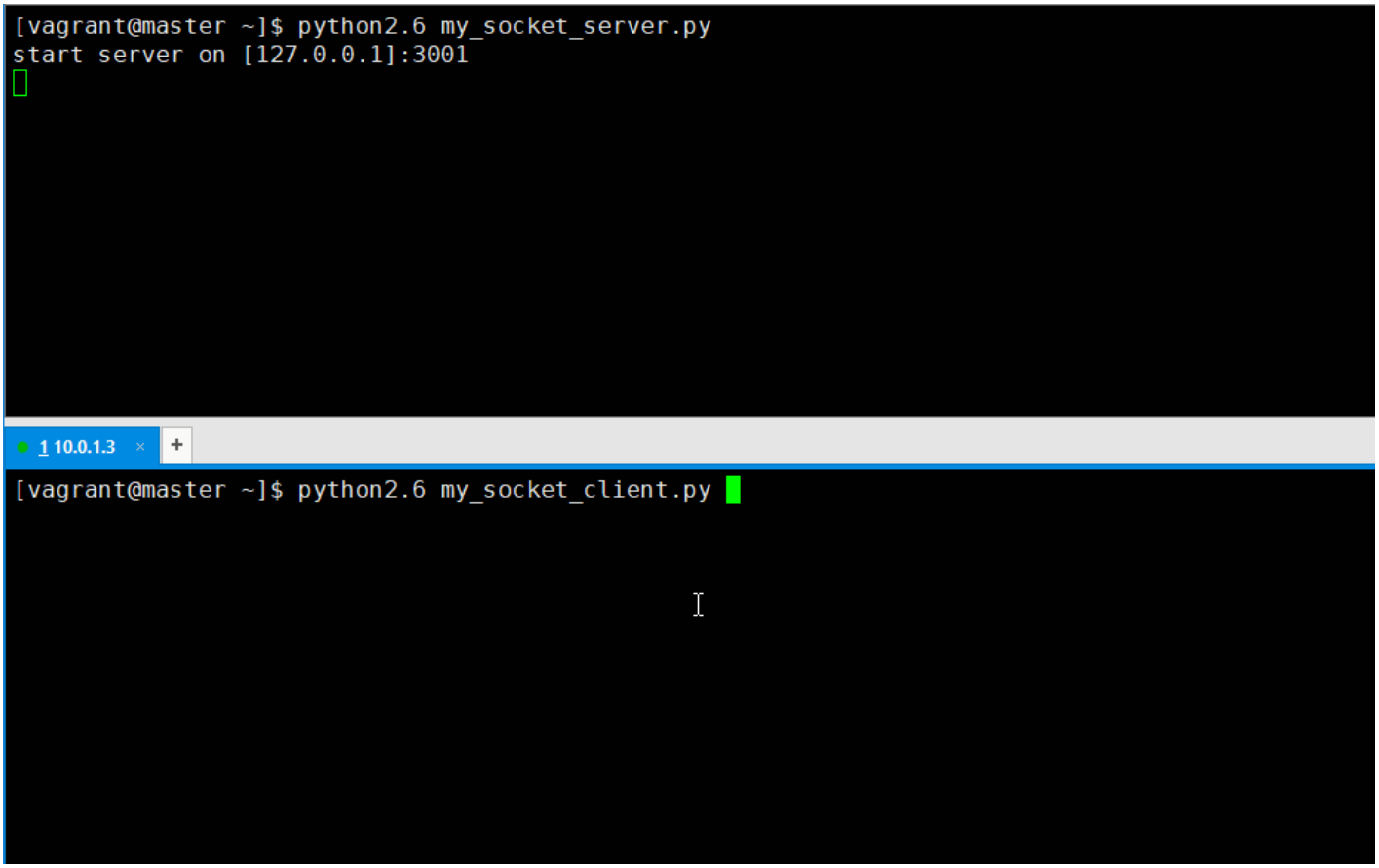
import socket

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




# UDP

client , 2000

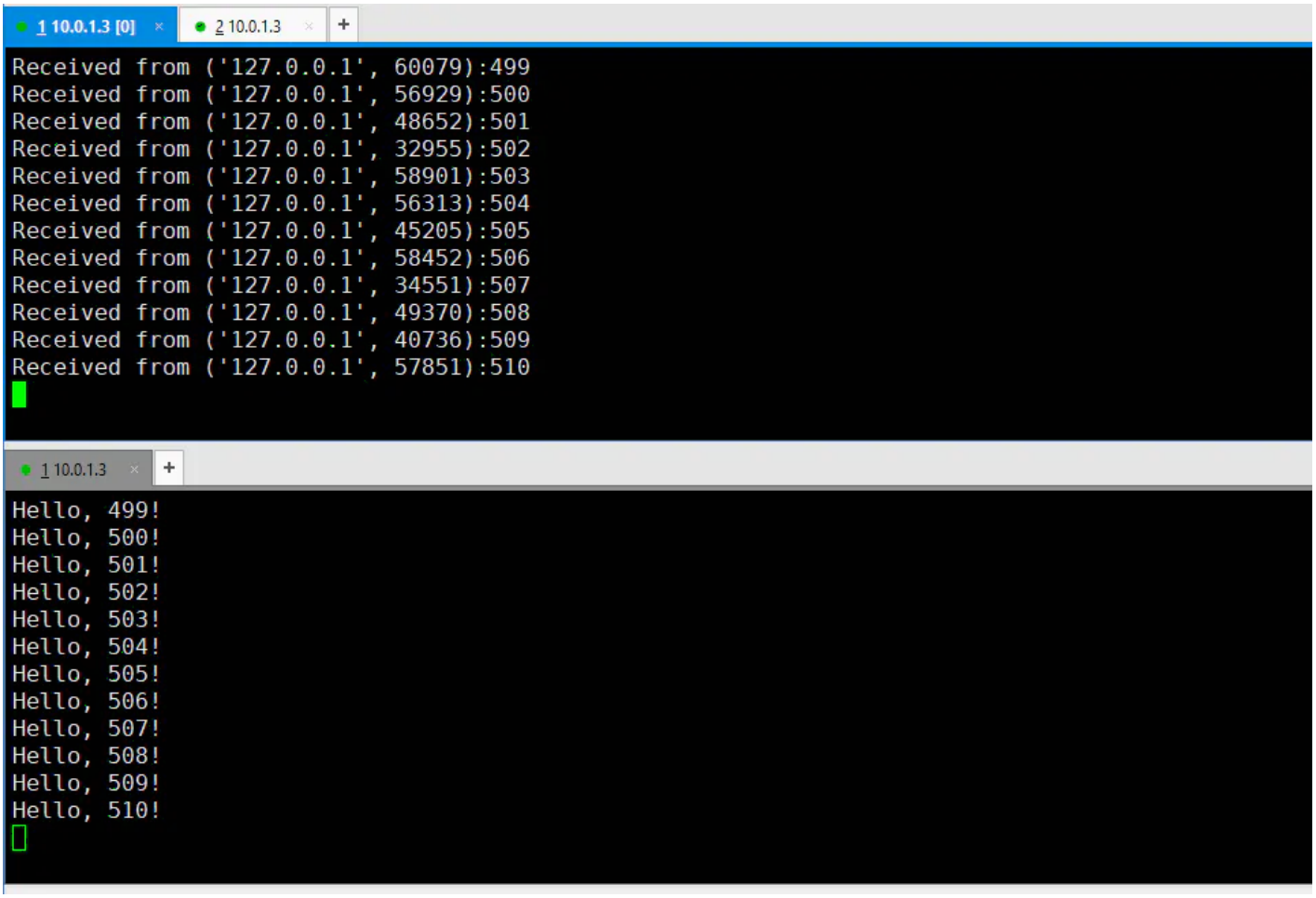
```
# coding=utf-8

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




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.

backlog udp

---

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