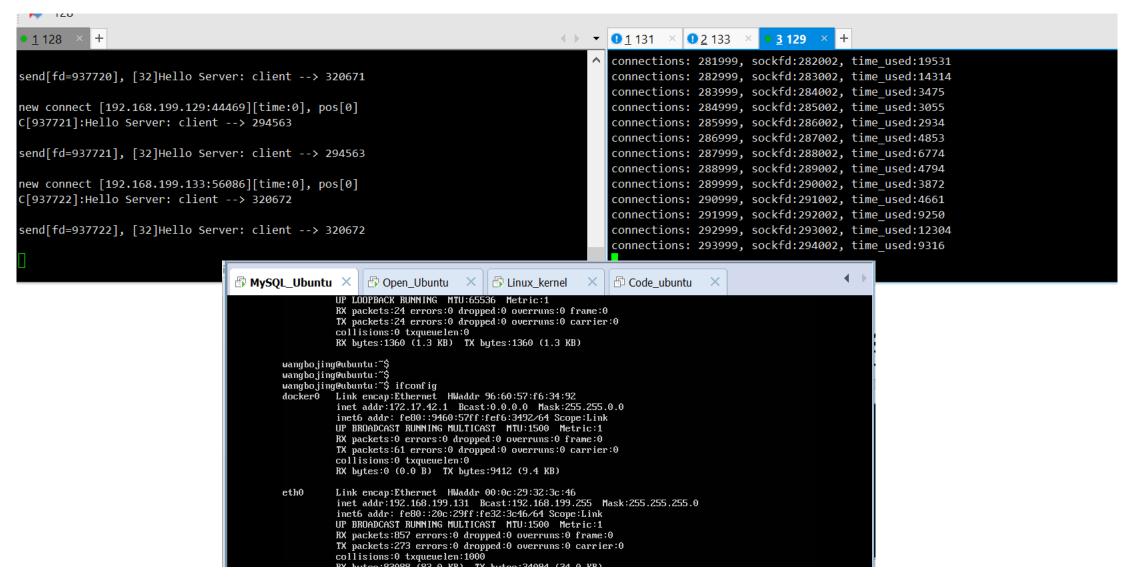


## 服务器的百万级并发量

## 大家请自己安装四台虚拟机







一切只为渴望更优秀的你!

- 1. 什么是C10K,C10M?
- 2. 并发量的瓶颈是什么?
- 3. 淘宝网站服务器与微信App 服务器的并发量?





一切只为渴望更优秀的你!

- 1. 单线程同步: NTP
- 2. 多线程同步: Natty
- 3. 纯异步: Redis,HAProxy
- 4. 半同步半异步: Natty
- 5. 多进程同步: fastcgi
- 6. 多线程异步: memcached
- 7. 多进程异步: nginx
- 8. 每请求每进程(线程): Apache/CGI
- 9. 微进程框架: erlang/go/lua
- 10.协程框架: libco/ntyco





## 一切只为渴望更优秀的你!

```
net.ipv4.tcp_mem = 262144 524288 786432
net.ipv4.tcp_wmem = 1024 1024 2048
net.ipv4.tcp_rmem = 1024 1024 2048
fs.file-max = 1048576
net.ipv4.tcp_max_orphans = 16384
```

net.ipv4.tcp\_mem = 252144 524288 786432 net.ipv4.tcp\_wmem = 2048 2048 4096 net.ipv4.tcp\_rmem = 2048 2048 4096 fs.file-max = 1048576 net.nf\_conntrack\_max = 1048576 net.netfilter.nf\_conntrack\_tcp\_timeout\_established = 1200



Error: /proc/sys/net/nf\_conntrack\_max no such file or directory

sudo modprobe ip\_conntrack

## 单机服务模型

```
connections: 315999, sockfd:316002, time_used:17982

connections: 315999, sockfd:317002, time_used:17982

connections: 316999, sockfd:317002, time_used:10201

connections: 317999, sockfd:318002, time_used:13913

connections: 318999, sockfd:319002, time_used:8348

C[1004085]:Hello Server: client --> 324017

send[fd=1004085], [32]Hello Server: client --> 324017

new connect [192.168.199.129:37361][time:0], pos[0]

connections: 315999, sockfd:310002, time_used:13913

connections: 318999, sockfd:320002, time_used:6084

connections: 320999, sockfd:321002, time_used:2732

connections: 321999, sockfd:322002, time_used:3200

connections: 322999, sockfd:323002, time_used:12373

connections: 323999, sockfd:324002, time_used:16264
```