## 网络

https://ifconfig.me/查询自己的公网ip

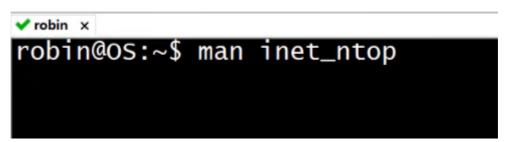
18.162.123.223 (远程服务器能ping通)

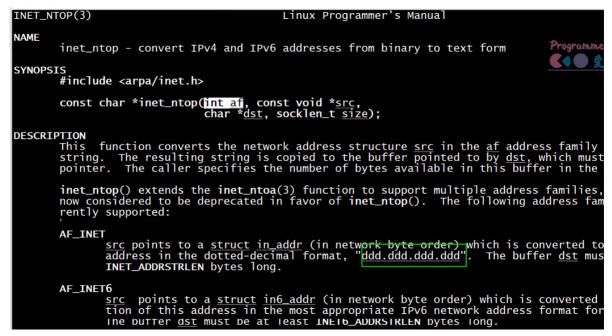
命令行输入:

curl ifconfig.me

输出: 210.30.193.187 (ping不通,可能原因是校园网是局域网)

linux:查看man文档





编译运行,报错: bind: Address already in use

```
[newuser@VM-16-11-centos socket_test]$ ls
a.out client.c server.c
[newuser@VM-16-11-centos socket_test]$ gcc client.c -o client
[newuser@VM-16-11-centos socket_test]$ ls
a.out client client.c server.c
[newuser@VM-16-11-centos socket_test]$ gcc server.c -o server
[newuser@VM-16-11-centos socket_test]$ ls
a.out client client.c server server.c
[newuser@VM-16-11-centos socket_test]$ ./server
bind: Address already in use
```

原因: 9999端口被占用

## 解决:

1、使用 netstat -tulpn 查看 端口使用情况

netstat -tulpn

2、找到被占用的端口(确认该端口对应的服务是即将启用的服务) netstat -tulpn | grep 9999

```
[newuser@VM-16-11-centos socket_test]$ netstat -tulpn | grep 9999
(Not all processes could be identified, non-owned process info will not be shown, you would have to be root to see it all.)
tcp 0 00.0.0.0:9999 0.0.0.0:* LISTEN -
```

返回如下:没有root权限,信息展示不全

root后:

3、释放对应的端口pid(8598)

[root@VM-16-11-centos socket\_test]# kill -9 8598