

## VNC 远程桌面

编辑：朱超

机器人软件适用版本：Polyscope 1.7&Polyscope 1.8

适用机器人：UR5、UR10

编辑时间：2015/6/9

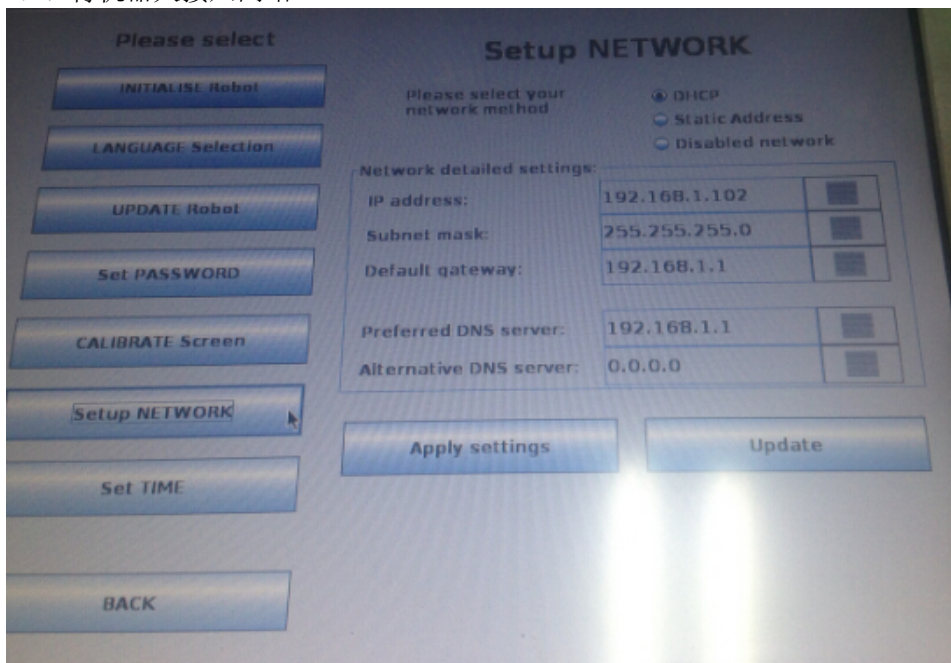
### 一、原理

机器人作为 VNC server，PC 作为 VNC client，实现 PC 对机器人的远程控制  
CB2 机器人测试通过，CB3 机器人未测试

### 二、步骤

1、为机器人安装 VNC server

1.1、将机器人接入网络



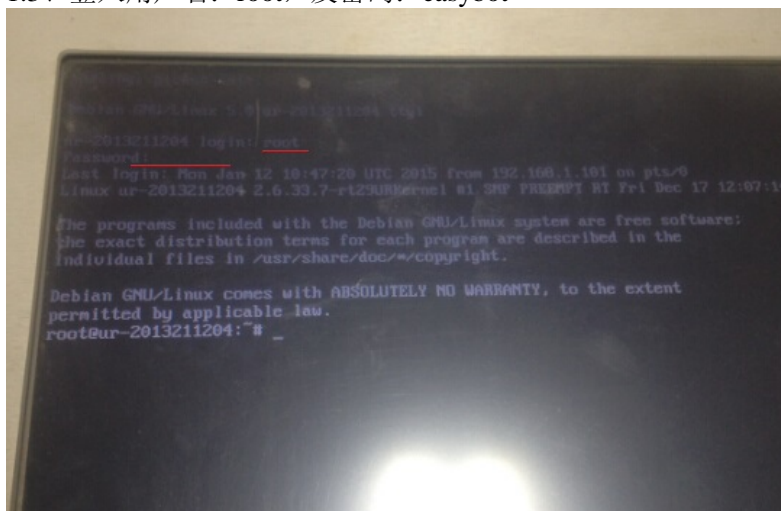
1.2、快捷键 ctrl+alt+f1，使机器人静入终端界面



# UNIVERSAL ROBOTS



1.3、登入用户名: root, 及密码: easybot



1.4、安装 vino  
先键入 apt-get update



# UNIVERSAL ROBOTS

```
ur-2013211204 login: root
Password:
Last login: Mon Jan 12 10:47:20 UTC 2015 from 192.168.1.101 on p
Linux ur-2013211204 2.6.33.7-rt29URkernel #1 SMP PREEMPT RT Fri

The programs included with the Debian GNU/Linux system are free
the exact distribution terms for each program are described in
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the exte
permitted by applicable law.
root@ur-2013211204:~# apt-get update
Hit http://archive.debian.org lenny Release.gpg
Ign http://archive.debian.org lenny/main Translation-en_DK
Hit http://archive.debian.org lenny Release
Ign http://archive.debian.org lenny/main Packages/DiffIndex
Hit http://archive.debian.org lenny/main Packages
Reading package lists... Done
root@ur-2013211204:~#
```

再键入 apt-get install vino

```
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root@ur-2013211204:~# apt-get update
Hit http://archive.debian.org lenny Release.gpg
Ign http://archive.debian.org lenny/main Translation-en_DK
Hit http://archive.debian.org lenny Release
Ign http://archive.debian.org lenny/main Packages/DiffIndex
Hit http://archive.debian.org lenny/main Packages
Reading package lists... Done
root@ur-2013211204:~# apt-get install vino
Reading package lists... Done
Building dependency tree
Reading state information... Done
vino is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 40 not upgraded.
root@ur-2013211204:~#
```

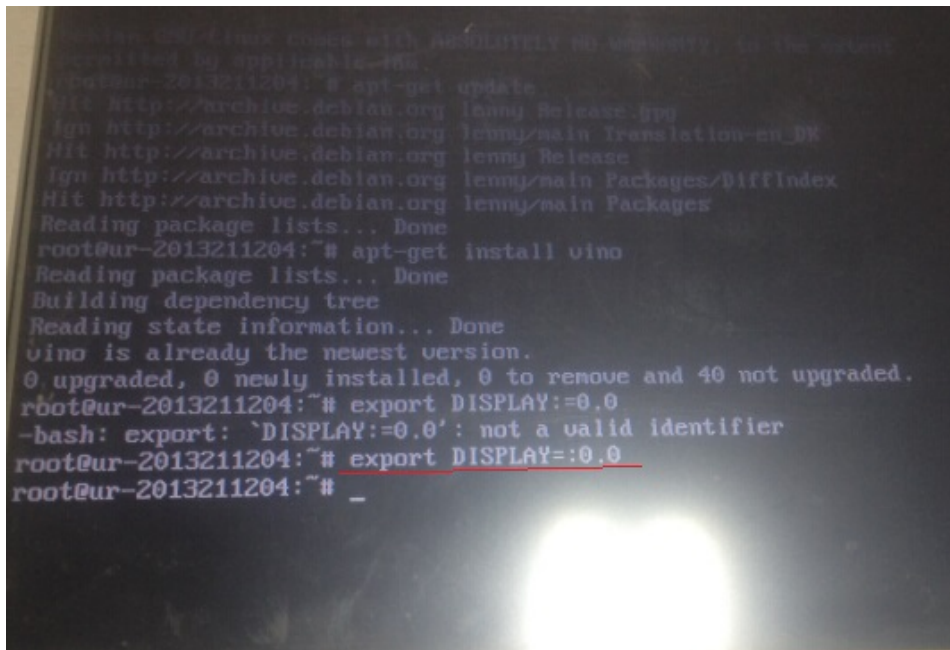
2、开启 VNC server，机器人每次从断电到上电必须要手动开启

2.1、开启 server

先键入 export DISPLAY=:0.0

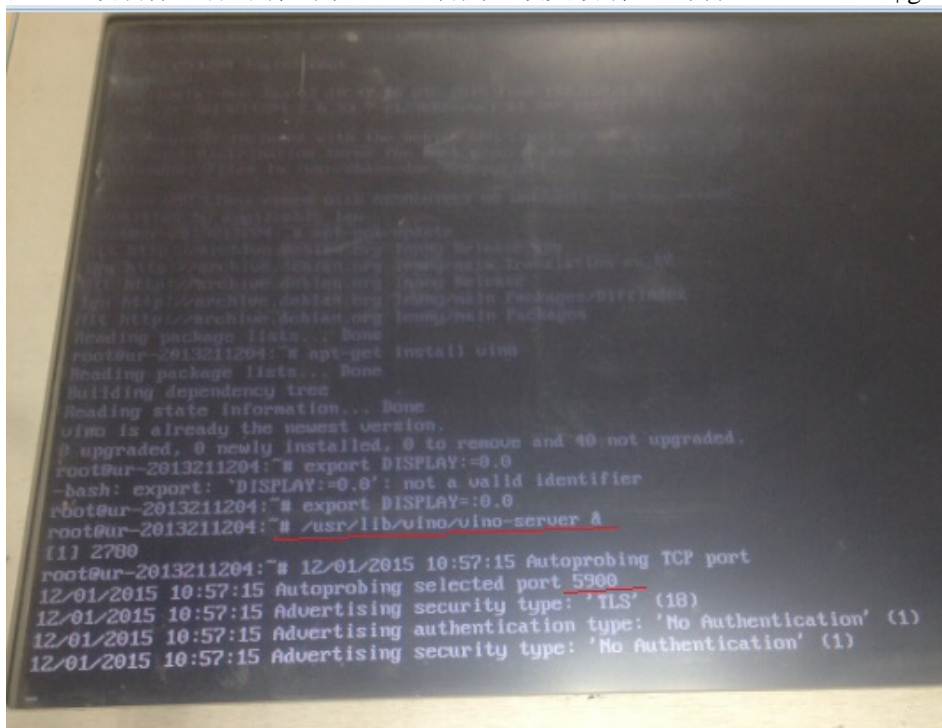


# UNIVERSAL ROBOTS



再键入 `/usr/lib/vino/vino-server &`

注意必须确保监听的端口为 5900（否则必须更改端口，需键入 `netstat -nl | grep 5900`）

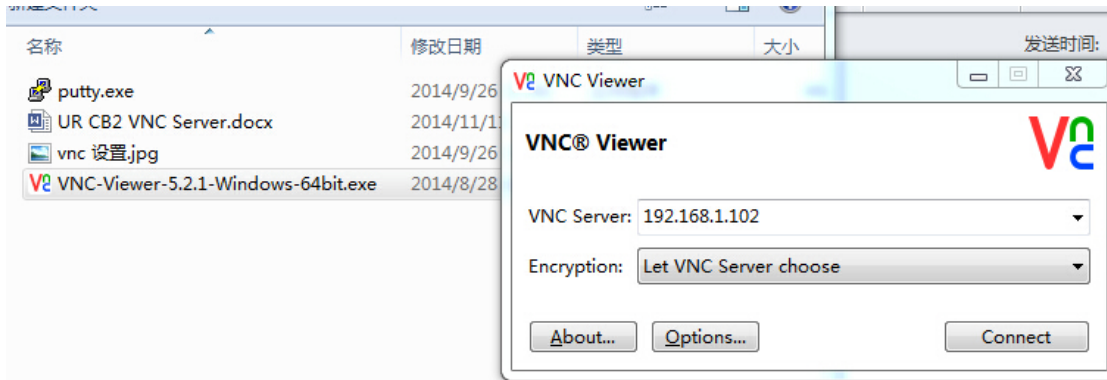


2.2、快捷键 `ctrl+alt+f7`,退出终端界面

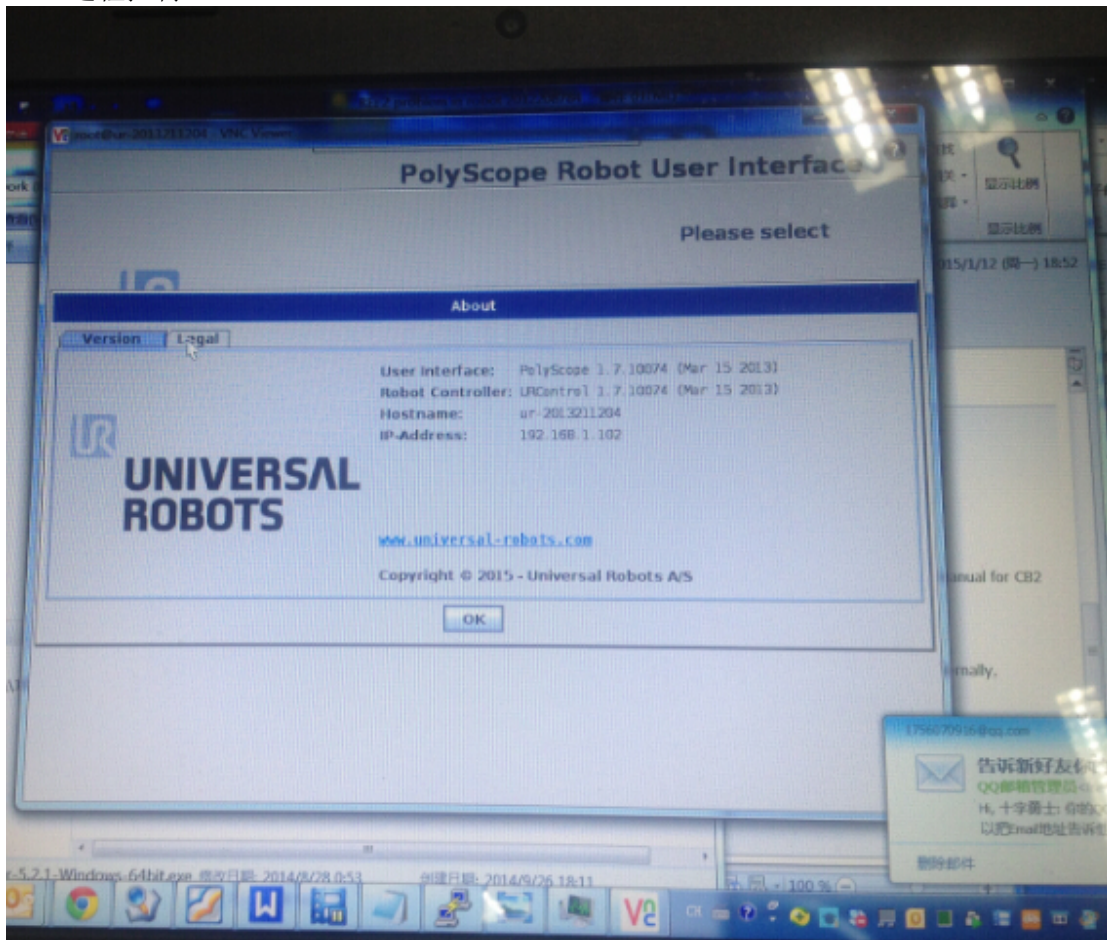
3、开启桌面 VNC client（在 windows 系统下）

3.1、打开 VNC Viewer 第三方软件，配置的 IP 地址为机器人的 IP 地址，并连接





### 3.2、远程控制



### 三、思考

是否可以手动开启 VNC server 的动作，让机器人开机自动开启，或者制作.sh 文件放到 U 盘，一插 U 盘，自动开启