

**—**□Linux

# 无线传感器网项目实战



公众号:一口Linux



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## 资料获取

•公众号回复:无线传感网

- ・安装
  - · 1.虚拟机vmware15.5.rar
  - 2. ubuntu16-无线传感网.rar



# VMware

### **VMware Workstation**



- · VMware总部位于美国加州帕洛阿尔托(Palo Alto), 是全球云基础架构和移动商务解决方案厂商
- 博通2022年5月,以610亿美元收购

- · VMware Workstation(中文名"威睿工作站")是一款功能强大的桌面<u>虚拟计算机</u>软件
  - ·提供用户可在单一的桌面上同时运行不同的操作系统,和进行 开发、测试、部署新的应用程序的最佳解决方案。

## 安装包

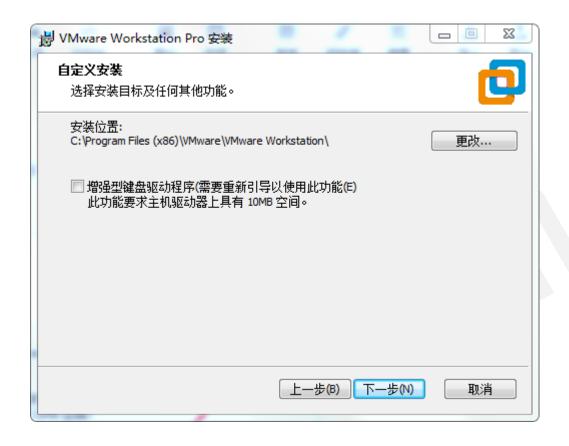
- https://www.vmware.com/go/getworkstationwin
- •物联网实训项目所有资料\1.环境工具

## 第1步



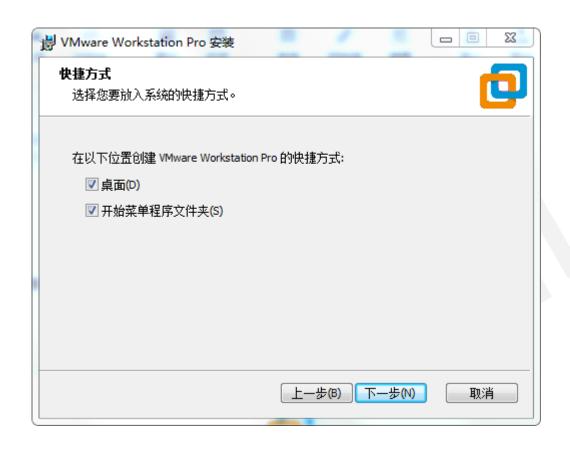


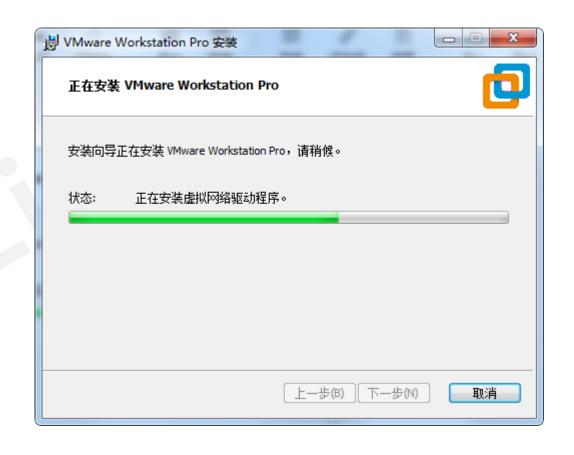
## 第2步





## 第3步





## 第4步-完成





## 输入秘钥



UG5J2-0ME12-M89WY-NPWXX-WQH88

GA590-86Y05-4806Y-X4PEE-ZV8E0

YA18K-0WY8P-H85DY-L4NZG-X7RAD



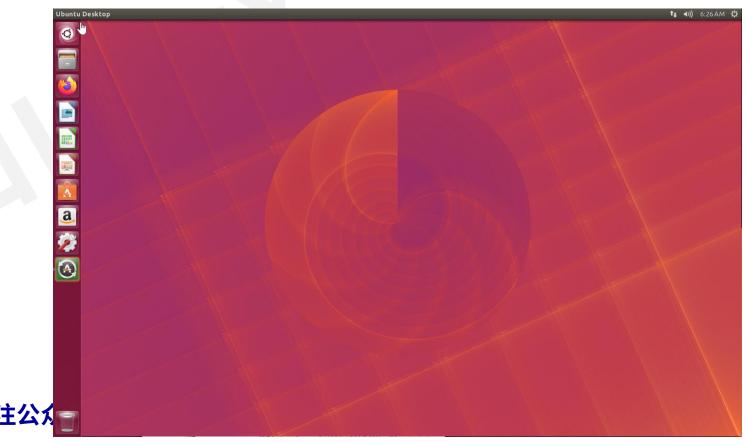
# ubuntu

## 什么是ubuntu?

· Ubuntu是一个以桌面应用为主的Linux操作系统,其名称来自非洲南部祖鲁语或豪萨语的"ubuntu一词,意思

是"人性"



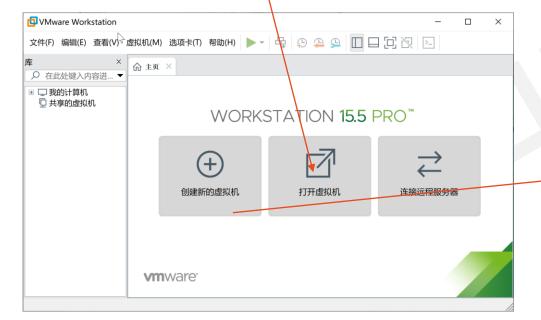


## Ubuntu安装

- •安装详细步骤如下:
  - ·物联网实训项目所有资料\4.知识点相关资料\4.主控\1.环境安装vmware+ubuntu.pdf
- 本实例请直接使用创建好的虚拟机
  - ·物联网实训项目所有资料\1.环境工具\ubuntu16-无线传感网.rar

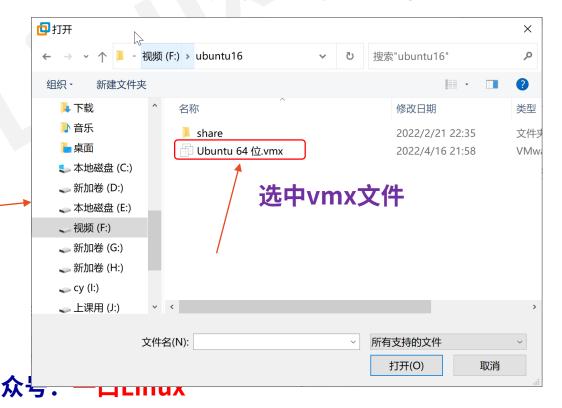
## 打开ubuntu

- · 1. 将压缩包拷贝到F:盘下
- · 2. 打开Vmware station
- 点击打开虚拟机

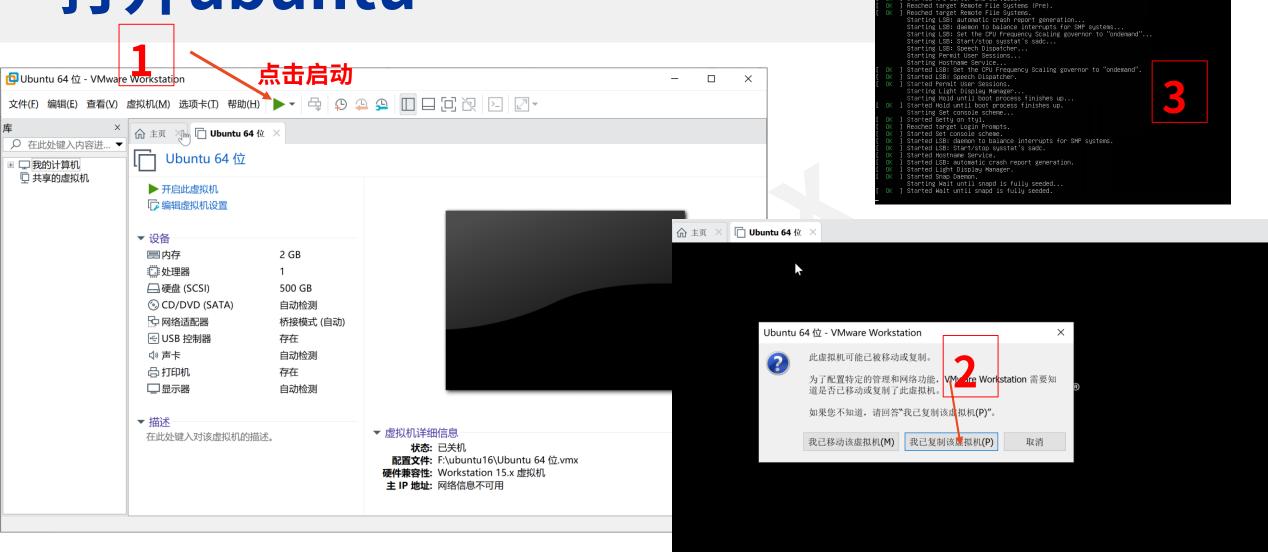




### 选中刚才解压的目录



## 打开ubuntu



共享文件夹已禁用

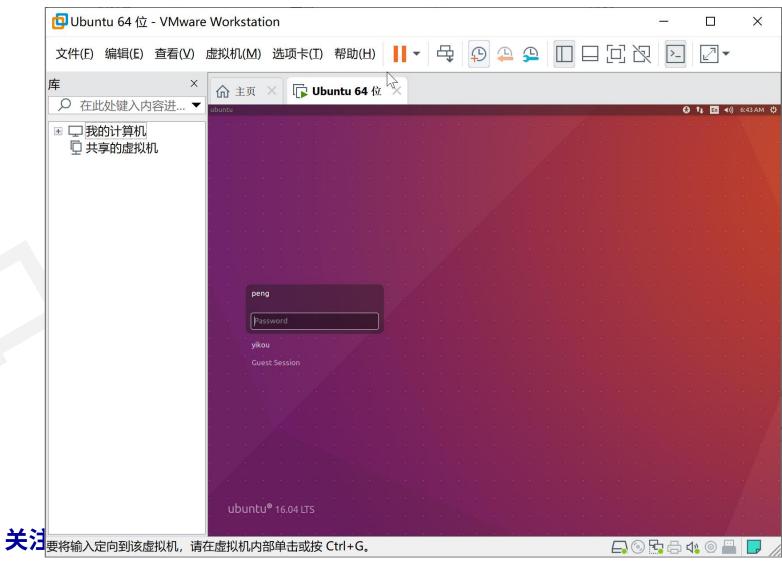
此虚拟机配置了一个或多个共享文件夹。共享文件夹在默认情况下已禁用。您可以通过选择"虚拟机">"设置">"选项">"共享文件夹"启用共享文件夹。

Started Unattended Upgrades Shutdown. Starting Network Manager Wait Online... Starting Authenticate and Authorize Users to Run Privileged Tasks... Started Network Manager Script Dispatcher Service.

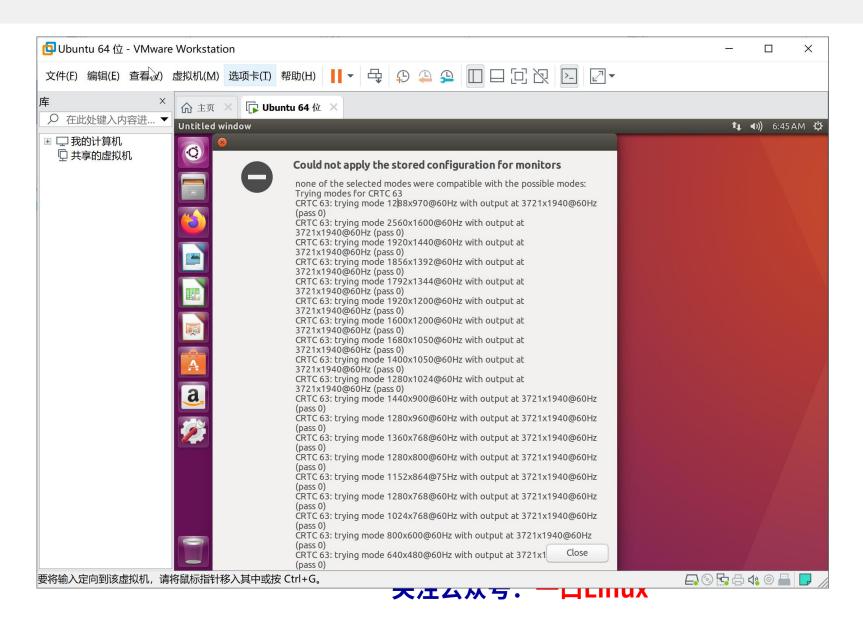
Started Authenticate and Authorize Users to Run Privileged Tasks.

Started Accounts Service. Started NFS Mount Daemon. Starting NFS server and services... Started NFS server and services.

- ·选择用户:peng
- •输入密码:1



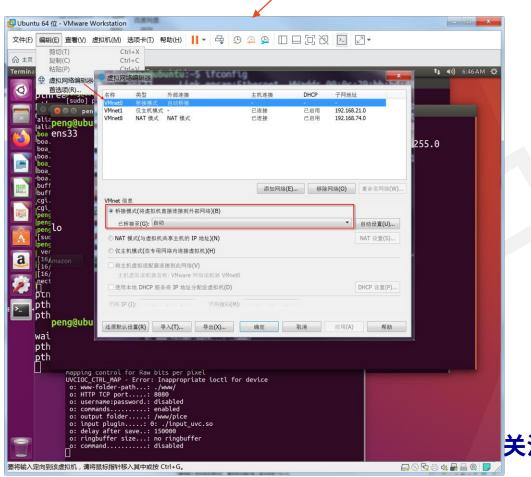
## 正式进入ubuntu

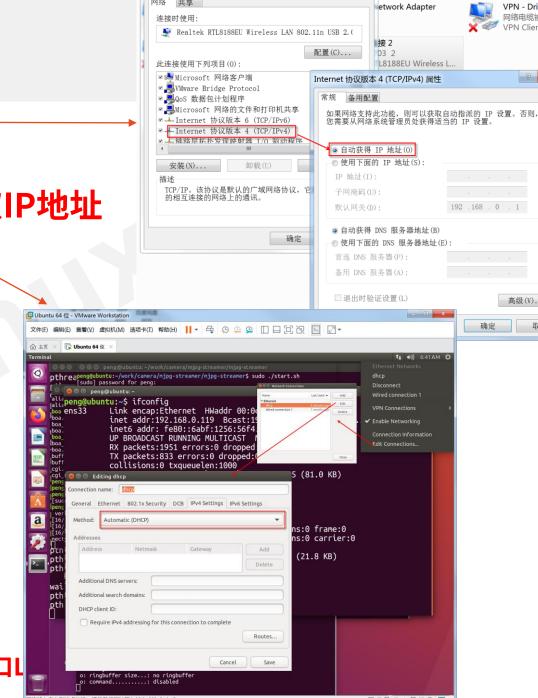


## 网络配置1

- Windows网长动态获取ip地址
- 我的网络配置是

· vmware桥接模式+ubuntu网卡动态获取IP地址





诊断设个连接

名此连接 查看此连接的状态

更改此连接的设置

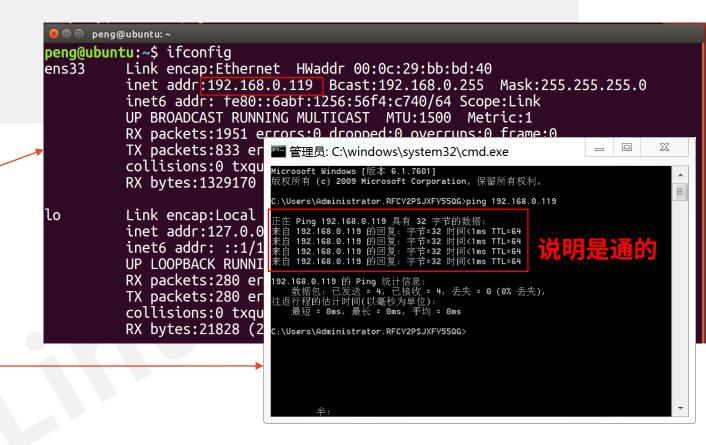
VPN Client Adapte

高级(V)...

取消

## 网络配置2

- 1. 查看Ubuntu ip地址:
- · 192.168.0.119
- · Windows上
- ping 192.168.0.119



## 关于linux基本命令

- •请学习以下文档:
  - · 物联网实训项目所有资料\4.知识点相关资料\1.基础知识点\2.Linux基础命令.pdf



# samba

## 一、什么是samba?

· 搭建Samba服务器是为了实现Linux共享目录之后,在 Windows可以直接访问该共享目录。

## 二、samba安装

### 安装命令

sudo apt-get install samba samba-common

#### 操作界面

```
peng@ubuntu:~$ sudo apt-get install samba samba-common
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
   attr libaio1 python-crypto python-dnspython python-ldb python-samba
   python-tdb samba-common-bin samba-dsdb-modules samba-vfs-modules tdb-tools
Suggested packages:
   python-crypto-dbg python-crypto-doc bind9 bind9utils ctdb ldb-tools ntp
   smbldap-tools winbind heimdal-clients
The following NEW packages will be installed:
   attr libaio1 python-crypto python-dnspython python-ldb python-samba
   python-tdb samba samba-common samba-common-bin samba-dsdb-modules
   samba-vfs-modules tdb-tools
```

## 三、配置-ubuntu侧

· 1. 为samba服务器创建一个共享目录

• 2. 创建使用该共享文件夹的账号

```
sudo smbpasswd -a yikou 添加samba用户: yikou,密码设置为: 1
若上一步失败: Failed to add entry for user phinecos
输入如下命令,增加相应的系统账号:
```

```
sudo groupadd yikou -g 6000 sudo useradd yikou -u 6000 -g 6000 -s /sbin/nologin -d /dev/null
```

```
peng@ubuntu:~/work$ sudo smbpasswd -a yikou
New SMB password:
Retype new SMB password:
Failed to add entry for user yikou.
peng@ubuntu:~/work$
peng@ubuntu:~/work$
peng@ubuntu:~/work$
peng@ubuntu:~/work$ groupadd yikou -g 6000
groupadd: Permission denied.
groupadd: cannot lock /etc/group; try again later.
peng@ubuntu:~/work$ sudo groupadd yikou -g 6000
peng@ubuntu:~/work$ sudo useradd yikou -u 6000 -g 6000 -s /sbin/nologin -d /dev/
null
peng@ubuntu:~/work$
peng@ubuntu:~/work$
peng@ubuntu:~/work$ sudo smbpasswd -a yikou
New SMB password:
Retype new SMB password:
Added user yikou.
```

### · 3. 修改samba服务器配置文件

```
sudo vim /etc/samba/smb.conf
```

### 在文件尾部添加下面内容:

```
peng@ubuntu: ~/boa/boa-0.94.13/src
246 # Windows clients look for this share name as a source of downloadable
247 # printer drivers
        [print$]
        comment = Printer Drivers
       path = /var/lib/samba/printers
       browseable = ves
       read only = yes
        quest ok = no
254 # Uncomment to allow remote administration of Windows print drivers.
255 # You may need to replace 'lpadmin' with the name of the group your
256 # admin users are members of.
257 # Please note that you also need to set appropriate Unix permissions
258 # to the drivers directory for these users to have write rights in it
        ; write list = root, @lpadmin
260
262 [yikou]
        path = /home/peng/work)
        available = yes
        browseable = ves
       writable = yes
/etc/samba/smb.conf [+][R0]
                                                              267,0-1
                                                                              Bot
```

### • 4. 重启samba服务

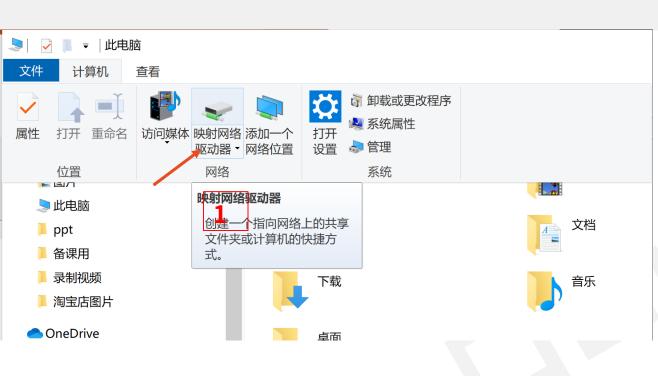
```
peng@ubuntu:~/work$ /etc/init.d/smbd restart
[ ok ] Restarting smbd (via systemctl): smbd.service.
```

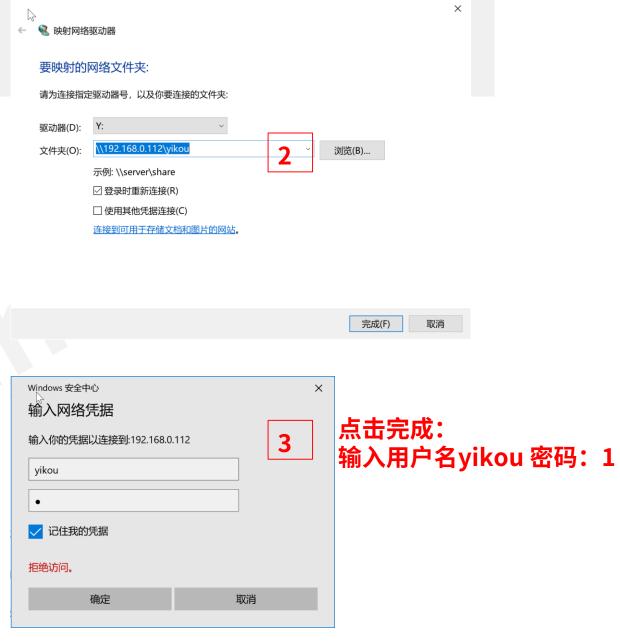
## 四、windows创建映射

- ·必须保证windows和ubuntu网络互通,
- ・首先查看ubuntu网卡ip地址
- · 保证windows能ping通192.168.0.112

```
peng@ubuntu: ~
peng@ubuntu:~$ ifconfig
        Link encap:Ethernet HWaddr 00:0c:29:bd:ed:3c
         inet addr:192.168.0.112 Bcast:192.168.0.255 Mask:255.255.255.0
         inet6 addr: fe80::6abf:1256:56f4:c740/64 Scope:Link
         UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
         RX packets:143 errors:0 dropped:0 overruns:0 frame:0
        TX packets:208 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:152764 (152.7 KB) TX bytes:22996 (22.9 KB)
         Link encap:Local Loopback
         inet addr:127.0.0.1 Mask:255.0.0.0
         inet6 addr: ::1/128 Scope:Host
         UP LOOPBACK RUNNING MTU:65536 Metric:1
        RX packets:260 errors:0 dropped:0 overruns:0 frame:0
        TX packets:260 errors:0 dropped:0 overruns:0 carrier:0
         collisions:0 txqueuelen:1000
         RX bytes:20096 (20.0 KB) TX bytes:20096 (20.0 KB)
```

### windows下打开cmd命令终端:





关注公众号:一口Linux

# · 下面是ubuntu中samba服务器的根目录内容,与 windows Y盘目录内容保持一致!



