

环境（VMWare+Ubuntu）

1. 下载并安装 VMWare 虚拟机环境

VMWare 可从以下百度网盘链接中获取，也可以自己到官网下载，注意版本一致即可
(链接中的版本: VMware-workstation-full-15.5.7-17171714)

链接: https://pan.baidu.com/s/1KTZxpr2kBm5zeb3HEtG_hw

提取码: idxi

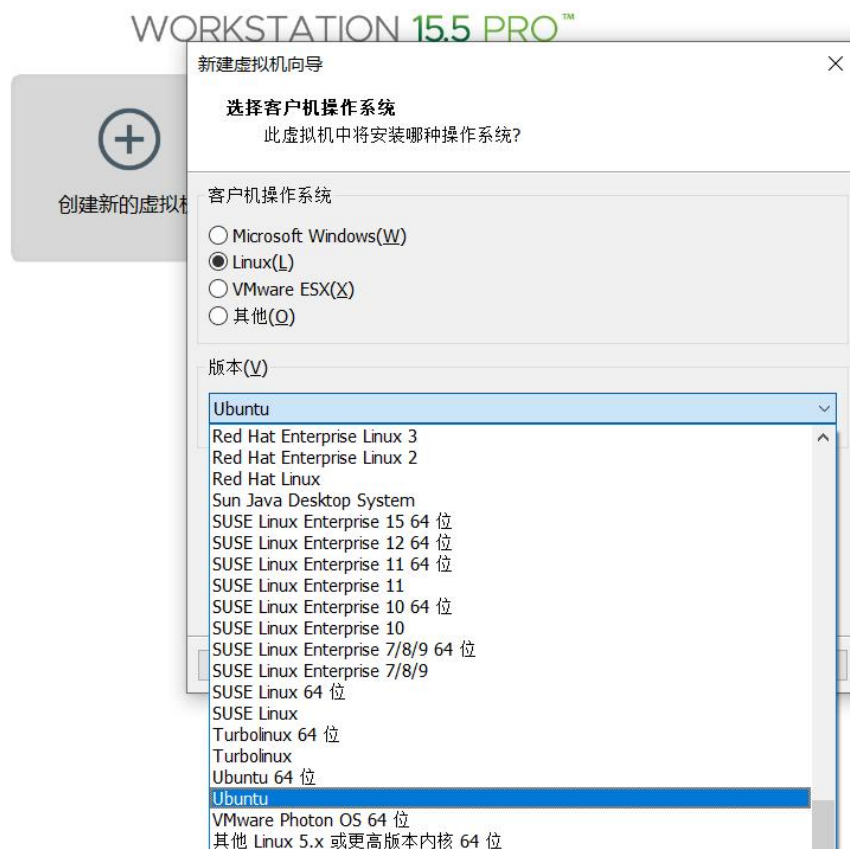
2. 创建虚拟机

Ubuntu 镜像可从以下百度网盘链接中获取，也可以自己到官网下载，注意版本一致即可
(链接中的版本: ubuntu-16.04.4-desktop-i386.iso)

链接: <https://pan.baidu.com/s/1Ox7i1TnoT3lvRigH7ZJWfg>

提取码: kwfm

注意: 创建虚拟机的过程选择 ubuntu32 位系统 (如下图所示, 即 Ubuntu)



说明：【系统环境配置】和【获取源码】部分在【[NK 实验 PA 流程.pdf](#)】文档中 PA0 部分已有详细说明，以下为大家需要重点关注和完成的部分（温馨提示：完成 PA0-PA5 的过程中，仔细阅读手册可以避免很多麻烦和不必要的时间浪费）

系统环境配置

在创建好的虚拟机中，按照【[NK 实验 PA 流程.pdf](#)】文档中 PA0 部分（Page8-10）配置系统环境，安装实验工具

注意：务必完成以下工具的安装

Installing tools for PAs

The following tools are necessary for PAs:

```
apt-get install build-essential    # build-essential packages, include binary utilities, gcc, make, and so on
apt-get install gdb                # GNU debugger
apt-get install git                # revision control system
apt-get install libreadline-dev    # a library to use compile the project later
apt-get install libsdl2-dev        # a library to use compile the project later
apt-get install qemu-system-x86    # QEMU
```

The usage of these tools is explained later.

命令给大家打在下面了，可复制粘贴：

```
sudo apt-get install build-essential
sudo apt-get install gdb
sudo apt-get install git
sudo apt-get install libreadline-dev
sudo apt-get install libsdl2-dev
sudo apt-get install qemu-system-x86
```

获取源码

按照【[NK 实验 PA 流程.pdf](#)】文档 page13 的指导获取实验源码，并继续完成 PA0 所有内容

时, 使用 `sudo`.

Now acquire source code for PA by the following command:

```
git clone -b 2017 https://github.com/NJU-ProjectN/ics-pa.git ics2017
```

A directory called `ics2017` will be created. This is the project directory for PAs. Details will be explained in PA1.

Issue the following commands to perform git configuration:

```
git config --global user.name "161220000-Zhang San" # your student ID and name
git config --global user.email "zhangsan@foo.com"    # your email
git config --global core.editor vim                  # your favorite editor
git config --global color.ui true
```

You should configure git with your student ID, name, and email. Before continuing, please read this git tutorial to learn some basics of git.

Enter the project directory `ics2017`, then run

```
git branch -m master
```

```
bash init.sh
```

to initialize all the subprojects. This script will pull 4 subprojects from github. We will explain them later. Besides, the script will also add some environment variables into the bash configuration file `~/.bashrc`. These variables are defined by absolute path to support the compilation of the subprojects.