# [[人nwq

# 1.安装vmware-station

# 2.安装ubuntu

## 参见网址:

1. VMware Workstation Pro v16.2.0 官方完整版(附永久激活密钥) | USB迷 (usbmi.com)

内附16.0版本的激活密匙:

VM16: ZF3R0-FHED2-M80TY-8QYGC-NPKYF

2. <a href="https://blog.csdn.net/qq/42566274/article/details/112272767">https://blog.csdn.net/qq/42566274/article/details/112272767</a>

具体关于上面两个的安装教程

# 3.安装pip

## 参见网址:

- 1. 技术 | 如何在 Ubuntu 上安装 pip (linux.cn)
- 2. 如何在 Ubuntu 20.04 上安装 Python Pip 知乎 (zhihu.com)
- 3. 详见B站上的网课

# 4.安装pwntool

# 5.安装pwndbg

需要先安装git,输入如下命令:

sudo apt install git

而后在github上搜索pwndbg,按照下面的指令安装即可

# 6.安装one\_gadget

下载one\_gadget首先需要下载配置ruby, gem, 用github上的命令即可:

下载ruby, gem时注意翻墙,否则会导致无法下载完全;同时注意如果还是无法下载完全,用sudo高 权限: sudo apt-get update升级

后使用: sudo gem-install one\_gadget命令安装即可

# 7.安装libcsearcher

目前不保证其正确性。。。

也是在github上查找libcsearcher, 然后按照命令操作即可

# 8.安装main\_arena\_offset

同样在github上查找main\_arena\_offset并按照命令操作即可

## 9.安装wine

## 最简单的方法

https://wiki.winehq.org/Ubuntu zhcn

按照上述网站的步骤安装即可,很简单的呜呜呜。。。

在Ubuntu系统下,你可以使用官方的PPA方便的安装最新的Wine开发版本。打开一个终端并使用sudo 权限执行下列命令。

复制代码

代码如下:

\$ sudo add-apt-repository ppa:ubuntu-wine/ppa

但是在上述过程中出现如下报错:

- E: 仓库 "http://ppa.launchpad.net/ubuntu-wine/ppa/ubuntu focal Release" 没有 Release 文件。 N: 无法安全地用该源进行更新,所以默认禁用该源。 N: 参见 apt-secure(8) 手册以了解仓库创建和用户配置方面的细节。

执行第二句 sudo-apt-get update报下面的错误:

仓库 "http://ppa.launchpad.net/chris-lea/node.js/ubuntu focal Release" 没有 Release 文件

解决办法,删除chris-lea/node.js 这个ppa文件,删除命令

sudo add-apt-repository --remove ppa:/chris-lea/node.js

然后重新执行 sudo apt-get update, 更新成功。

注意,"--remove ppa:/"后面跟提示错误的文件名,如果错误是 仓库 "http://ppa.launchpad.net/webupd8team/sublimetext-3/ubuntu focal Release" 没有 Release 文件,

#### 那么删除命令要下面这样写:

sudo add-apt-repository --remove ppa:/webupd8team/sublime-text-3

需要根据出错的文件名来写命令。

\$ sudo apt-get update

\$ sudo apt-get install wine 1.7 winetricks

### 但是又出现有进程在占用导致无法进行

#### zrz@zrz-virtual-machine:~/py\_main\_arena\_offset\$ sudo apt-get install wine 1.7 winetricks

E: Could not get lock /var/lib/dpkg/lock-frontend. It is held by process 27171 (unattended-upgr)

N: Be aware that removing the lock file is not a solution and may break your system. E: 无法获取 dpkg 前端锁 (/var/lib/dpkg/lock-frontend),是否有其他进程正占用它?

#### 采取如下操作:

## 查看进程:

ps -aux

## 使用sudo权限杀死妨碍继续进行的进程

sudo kill -9 (+进程编号27171)

## 然后在使用上述的命令即可

但是还有些无法下载,进而考虑用如下的方法:

## 1.安装前准备

安装必要的工具及deepin-wine依赖

sudo apt install wget g++ git #如已安装可自行跳过

## 2.安装deepin-wine

git clone "https://gitee.com/wszqkzqk/deepin-wine-for-ubuntu.git" cd deepin-wine #切换到下载目录 sudo ./install.sh #执行安装

deepin-wine容器安装完成,下面进行具体软件的安装。

(25条消息) ubuntu安装wine Ubuntu 20.04 安装微信、QQ等 weixin 39812142的博客-CSDN博客

但是deepin-wine并没有很好的适配我的ubuntu,甚至是无法运行.exe文件(提示.EXE格式无效的报错)

所以采用以下方法安装wine3.0

https://blog.csdn.net/aicyo8644/article/details/102063895?

spm=1001.2101.3001.6650.9&utm\_medium=distribute.pc\_relevant.none-task-blog-

2%7Edefault%7ECTRLIST%7Edefault-9.pc relevant default&depth 1-

utm\_source=distribute.pc\_relevant.none-task-blog-2%7Edefault%7ECTRLIST%7Edefault-

9.pc relevant default&utm relevant index=15

https://blog.csdn.net/qq\_26056015/article/details/83061737

https://blog.csdn.net/weixin 30381317/article/details/97330810

http://blog.sina.com.cn/s/blog\_55465b470100sc40.html

# 1.一种获得Wine最新稳定版本(即现在的3.0版本)的方法是使用以下命令从源码包构建wine。

- \$ wget https://dl.winehq.org/wine/source/3.0/wine-3.0.tar.xz
- \$ tar -xvf wine-3.0.tar.xz
- \$ cd wine-3.0/
- \$ sudo ./configure
- \$ sudo ./configure --enable-win64 [对于64位平台]
- \$ sudo make && sudo make install

## 2.除此之外还可安装稳定的wine6.0.2(推荐采用这个)

## 1.第一步是安装原生的Wine6.0.2稳定版的可执行程序。

- 1、首先在系统上启用32位支持,运行命令: sudo dpkg --add-architecture i386
- 2、添加正式的Wine仓库密钥:

wget -nc https://dl.winehq.org/wine-builds/winehq.key

sudo apt-key add winehq.key

3、添加wine仓库本身,不同的ubuntu版本是不同的执行命令,可以直接到官网查看,下面是ubuntu 20.04及其衍生版的:

sudo add-apt-repository 'deb https://dl.winehq.org/wine-builds/ubuntu/ focal
main'

sudo apt-get update

4、安装wine 6.0稳定版(其他版本请查看官网的相应命令):

sudo apt install --install-recommends winehq-stable

以上步骤执行完成后在/opt目录中就增加了wine-stable目录,在/usr/bin目录中wine可执行脚本指向这个目录中的可执行文件。

## 2.第二步是下载原生的Wine6.0.2稳定版的源代码并进行编译并打补丁。

## 打补丁参见:

tps://blog.csdn.net/ericden/article/details/121818332

补丁为: (注意: 在打补丁时按照文中所说将下面的补丁替换到/opt/wine-stable里的相关路径就可以了,不需要单独make文中说的那一部分,否则后面整体make会报错!!!)

别打了, 打了就寄了!!!

链接: https://pan.baidu.com/s/1NA\_7oCEYe6xafNz9btdgGQ

提取码: p39i

1、在wine官网上下载源代码压缩包,下载地址为:

https://dl.winehq.org/wine/source/6.0/wine-6.0.2.tar.xz

- 2、将该压缩包解压至用户主目录中, 所有文件位于wine-6.0.2中。
- 3、进入wine-6.0.2目录中, 执行./congfigure

## 但是在进行configure操作时遇到文件缺失的问题

#### 错误信息如下:

- 1 | configure: error: X 64-bit development files not found. Wine will be built
- 2 | without X support, which probably isn't what you want. You will need
- 3 to install 64-bit development packages of Xlib at the very least.
- 4 Use the --without-x option if you really want this.

## 缺少依赖,解决方法如下

sudo apt install xserver-xorg-dev

1、./configure时出现Cannot build a 32-bit program, you need to install 32-bit development libraries.

解决: sudo apt-get install gcc-multilib g++-multilib

2. error: X 32-bit development files not found. Wine will be built without X support, which probably isn't what you want. You will need to install 32-bit development packages of Xlib at the very least. Use the --without-x option if you really want this.

解决: sudo apt-get install libx11-dev:i386

3. configure: error: FreeType 32-bit development files not found

解决: sudo apt-get install libfreetype6-dev:i386 libfreetype6-dev

如果已安装, sudo ln -s /usr/include/freetype2 /usr/include/freetype

4、其他库

sudo apt-get install libxrender-dev:i386 libgnults-dev:i386

在依赖项全部安装后,系统提示make,但这时不要make,先执行第五条指令enable-win64 但是这里报如下错误:

https://blog.csdn.net/weixin 43242942/article/details/89563534

configure: error: X 64-bit development files not found. Wine will be built without X support, which probably isn't what you want. You will need to install 64-bit development packages of Xlib at the very least.

Use the --without-x option if you really want this.

我们需使用如下命令补全缺失文件:

sudo apt install xserver-xorg-dev

# 3.再次执行第五条指令enable-win64,发现会提示有很多依赖库未安装,故使用:

sudo apt-get install \*\*\*

具体的文件名称参见如下官方提示依赖库网址:

https://wiki.winehq.org/Building Wine

Library name	Debian(***)	Fedora	Arch	Function	Notes
Generally necessary					
MinGW cross- compiler	gcc-mingw-w64	mingw32- gcc, mingw64- gcc	mingw- w64-gcc	PE format DLLs	
ALSA	libasound2-dev	alsa-devel	alsa-lib	Sound backend	At least one is necessary for sound.
PulseAudio	libpulse-dev	libpulse- devel	libpulse		
libdbus	libdbus-1-dev	dbus-libs	dbus	Dynamic device detection (specifically, mass storage)	Removable drives may be incorrectly detected otherwise.
libfontconfig	libfontconfig- dev	fontconfig- devel	fontconfig	Host font enumeration	Install if you want host fonts to be detected.
libfreetype	libfreetype-dev	freetype- devel	freetype2	FreeType font reading	
libgnutls	libgnutls28-dev	gnutls-devel	gnutls	Cryptography	
libinotify	N/A	N/A	N/A	File change notification	Only necessary for some platforms (Linux does not need this.)
libjpeg	libjpeg62-turbo- dev	libjpeg- turbo-devel	libjpeg- turbo	lmage format decoding	
libpng	libpng-dev	libpng-devel	libpng		
libtiff	libtiff-dev	libtiff-devel	libtiff		
OpenGL	libgl-dev	mesa-libGL- devel	mesa	Hardware- accelerated/3D graphics	
libunwind	libunwind-dev	libunwind- devel	libunwind	Exception unwinding	Necessary for x86_64 and arm64, but not used on other platforms.
libX*				Window management	

Library name	Debian(***)	Fedora	Arch	Function	Notes
libxml, libxslt	libxml2-dev, libxslt1-dev	libxml2- devel, libxslt-devel	libxml2, libxslt	XML parsing	
Needed for many applications					
libfaudio	libfaudio-dev	libFAudio- devel	faudio	XAudio implementation	Needed for audio in some newer applications, especially games. (XAudio was initially released in 2008.)
libgstreamer	libgstreamer1.0- dev, libgstreamer- plugins-base1.0- dev	gstreamer1- devel, gstreamer1- plugins- base-devel	gstreamer, gst- plugins- base-libs	Multimedia playback	Generally necessary for games or applications that play back audio or video files.
libmpg123	libmpg123-dev	mpg123- devel	mpg123	mp3 decoding	Generally necessary for games or applications that play back audio files.
OSMesa	libosmesa6-dev	libOSMesa- devel	mesa	OpenGL bitmap support	
libSDL2	libsdl2-dev	SDL2-devel	sdl2	HID joystick support	Generally necessary for joystick or other HID support. Only one library is necessary, but they may exhibit different behaviour.
libudev	libudev-dev	?	systemd		
libvkd3d	libvkd3d-dev	libvkd3d- devel	vkd3d	Direct3D 12	Needed for some games. (Direct3D 12 was released in 2016.)

Library name	Debian(***)	Fedora	Arch	Function	Notes
Vulkan	libvulkan-dev	vulkan- headers, libvulkan- loader	vulkan-icd- loader, vulkan- headers	Hardware- accelerated/3D graphics	Necessary for some games; only supported by some video cards.
Rare or domain- specific					
libcapi20	libcapi20-dev	(none)	(none)	ISDN/telephony	Install only if you're using ISDN software.
liblcms	liblcms2-dev	lcms2-devel	lcms2	Color management	Rarely needed.
libcups	libcups2-dev	cups-devel	libcups	Printing	Install only if you need printer support.
libgphoto2	libgphoto2-dev	libgphoto2- devel	libgphoto2	Scanner/still image	Install only if you're using scanner/still image software.
libsane	libsane-dev	sane- backends- devel	sane		
libgsm	libgsm1-dev	gsm-devel	gsm	GSM audio codec	Very rarely needed, and generally only in older software.
Kerberos	libkrb5-dev	krb5-devel	krb5	Kerberos authentication	Install only if you're connecting via Kerberos.
LDAP	libldap2-dev	openldap- devel	libldap	LDAP remote directory protocol	Install only if you're using remote directories.
libnetapi	samba-dev	samba- devel	smbclient	Networking	Rarely needed.
OpenCL	ocl-icd-opencl- dev	ocl-icd- devel	ocl-icd	Parallel computing / GPGPU	Install if you're using parallel computing or GPGPU software.

Library name	Debian(***)	Fedora	Arch	Function	Notes
libpcap	libpcap-dev	libpcap- devel	libpcap	Packet capture	Install if you are using applications that require packet capture. (This replaces native wpcap.dll shipped by applications.)
libusb	libusb-1.0-0-dev	libusbx- devel	libusb	USB device support	Install only if you're using an application that accesses a USB device directly.
libv4l2	libv4l-dev	libv4l-devel	v4l-utils	Video capture	Install only if you're capturing video.
Never necessary					
libhal	(none)	(none)	(none)	Dynamic device detection	Obsolete; use libdbus instead.
OpenAL	libopenal-dev	openal-soft- devel	openal	Audio engine	Should never be needed. (This replaces native openal32 shipped by applications.)

## 注意可能会提示下面的错误:

configure: libxcomposite 64-bit development files not found, Xcomposite won't be supported.

## 执行下面的命令:

sudo apt-get install libxcomposite-dev

里面的x不是大写!!!

https://launchpad.net/ubuntu/+source/libxcomposite/1:0.4.5-1build1

## 4.但是按照上面将网站上提示的全部依赖项都安装后,仍会报如下的问题:

configure: libhal 64-bit development files not found, no legacy dynamic device support. configure: OSS sound system found but too old (OSSv4 needed), OSS won't be supported. configure: libFAudio 64-bit development files not found, XAudio2 won't be supported. configure: Finished. Do 'make' to compile Wine.

用下面网站的提示完成这些项的修复:

#### 第一项:

From the same WineHQ Wiki page: "libhal Dynamic device detection Obsolete; use libdbus instead." So you can skip that one

所以可以不管;

## 第二,三项:

均与声卡相关,在这里和我们想要的东西没太大关系,所以查阅以下网站可以略过。

https://forum.winehq.org/viewtopic.php?f=8&p=130303

https://www.cnblogs.com/itholidaycn/p/6259798.html

https://blog.csdn.net/chujiu /article/details/112767390

## 5.而后再make

## 10.安装IDA

注意在使用ubuntu时,解压rar文件一定要检查linux系统 中是否sudo apt-get install 了rar和unrar,否则解压会 导致大量空间占用!!!!!!

这里用到了常用的命令去查看空间占用情况:

df -ha 或 df -h

下面的这个命令可以图形化地查看各个磁盘空间占用的情况:

sudo baobab

# 11.linux的.desktop文件入门

(26条消息) Linux下Desktop文件入门YiferHuang 的博客-CSDN博客desktop文件

在Linux下为软件程序添加"快捷方式"

Desktop Entry文件是Linux桌面系统中用于描述程序启动配置信息的文件,它以.desktop为后缀名,相当于windows系统下的桌面快捷方式。通常一个二进制可执行程序是一个没有后缀没有图标的文件,不可以随意移动。

因此很多Linux发行版都提供了启动器,便于集中管理应用程序。启动器本质是一个位于/usr/share/applications/路径下的目录。启动器目录中存放着很多.desktop文件,每个.desktop文件都是一个应用程序的入口,并且.desktop文件可以显示图标,对用户更加友好。

# desktop文件基本模板

以demo.desktop为例

- 1. [Desktop Entry]
- 2. Name=<应用程序名>
- 3. Type=Application
- 4. Exec=<应用程序完整路径>
- 5. Icon=<应用程序图标的完整路径>

Name: desktop 文件最终显示的名称(一定要注意和 desktop 文件名的区别)

Type: 用于指定 desktop 文件的类型 (包括 3 种类型: Application、Link、Directory)

Exec: 用于指定二进制可执行程序的完整路径

Icon: 指定应用程序图标的完整路径(可以省略后缀名)。图标支持 png 格式、svg 格式等,图标的推荐尺

寸为 128x128。

# 拓展: 针对linux系统上用wine启动的windows可执行程序的快捷方式

#### 其格式如下:

- 1. [Desktop Entry]
- 2. Name=<自己设定的应用程序名>
- 3. Exec=env WINEPREFIX=<"本机wine的地址" \$2 , eg: "/home/zrz/.wine"> wine

<直接要wine运行的windows可执行文件, eg: ida.exe>

- 5. Type=Application
- 6. StartupNotify=true
- 7. Path=<<u>L面你要创建快捷方式的可执行文件的上一层目录的完整路径</u> \$1 , eg: /home/zrz/pwn\_software/IDA>
- 8. StartupWMClass=ida.exe
- \$1: 那么如何知道其完整路径?

可鼠标点击至你想得知其完整路径的目录,用终端(命令行)打开并使用pwd即可!

• \$2: wine的地址怎么找?

利用如下命令:

sudo nautilus ~/.local/share/applications

找到这些.desktop文件的位置,可以进入wine的目录查看用wine执行的程序使用wine的地址,便可以照猫画虎的知道我们需要wine的地址。