

# Kali Linux的安装和使用

郭苏越、游伟  
(中国人民大学)





# Kali Linux简介

Kali 是一个基于 Debian 的 Linux 发行版。它的目标就是为了简单：在一个实用的工具包里尽可能多的包含渗透和审计工具。Kali 实现了这个目标。大多数做安全测试的开源工具都被囊括在内。

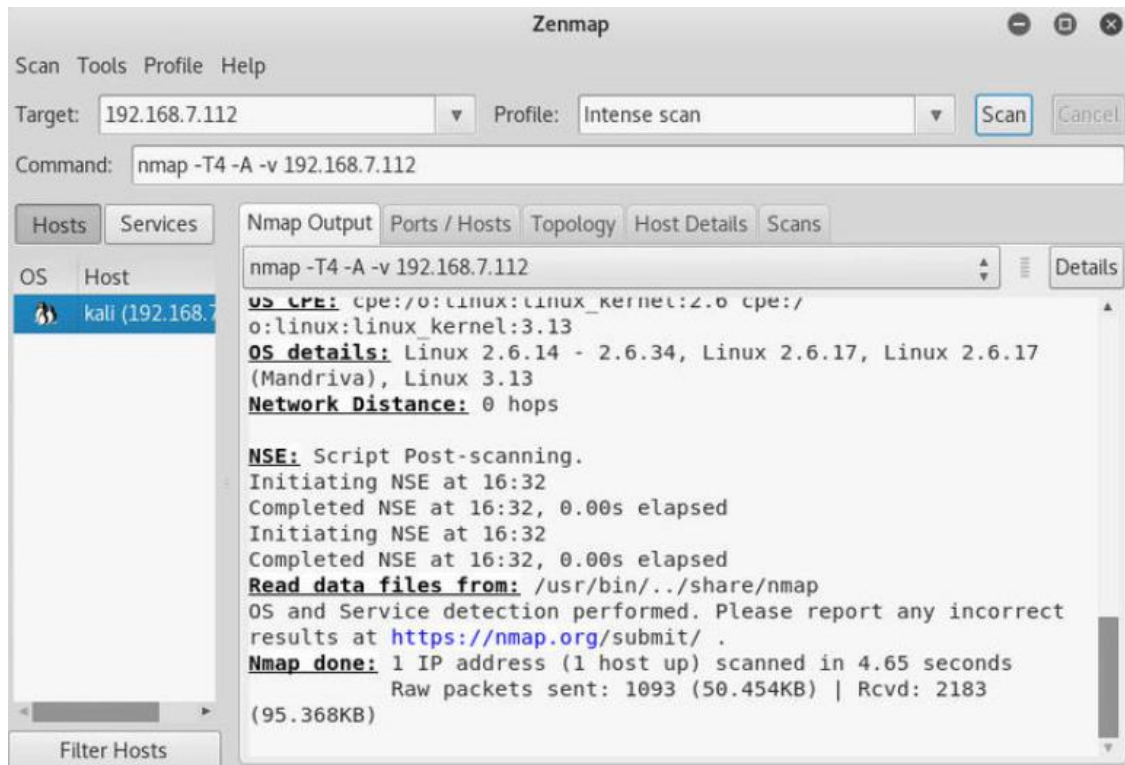
Kali 是由 Offensive Security 公司开发和维护的。它在安全领域是一家知名的、值得信赖的公司，它甚至还有一些受人尊敬的认证，来对安全从业人员做资格认证。



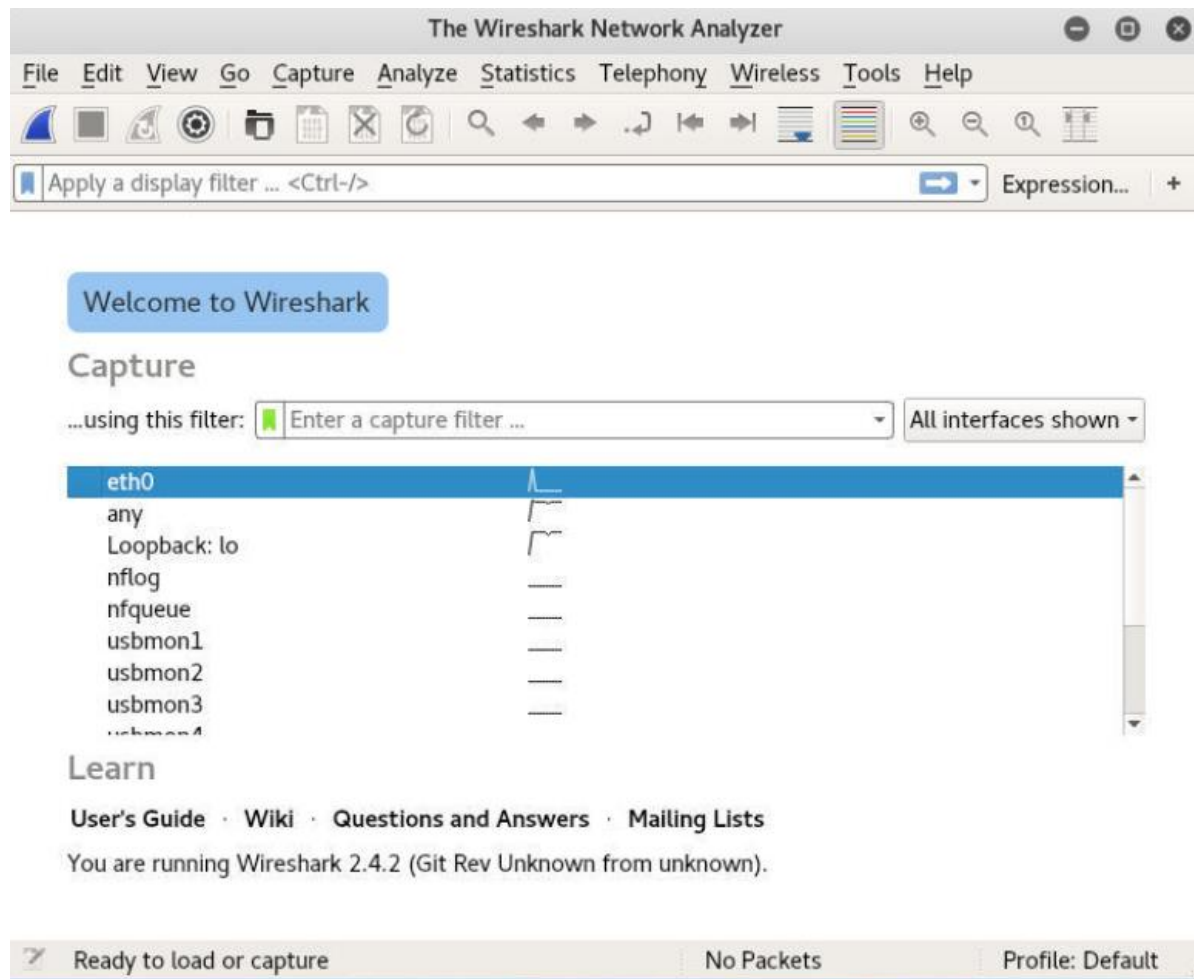


# Kali Linux简介

它有像 Zenmap 和 Wireshark 这样的经典信息采集工具。

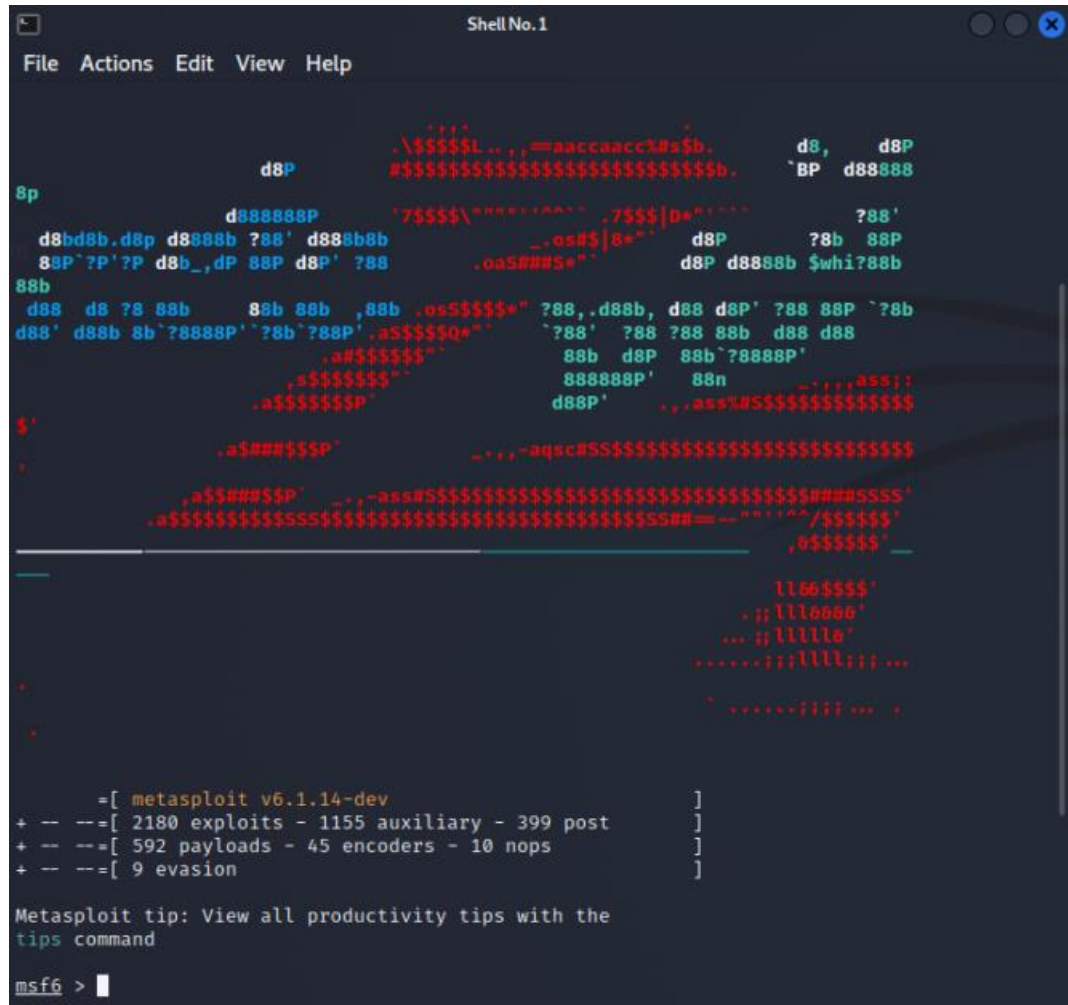


Zenmap 是一个开源免费的网络发现工具,通过它能够找出网络上在线的主机,并测试主机上哪些端口处于监听状态,接着通过端口确定主机上运行的应用程序类型与版本信息





Metasploit是一个渗透测试框架，它可以自动执行发现漏洞、攻击漏洞，提交漏洞等操作。






# Kali Linux下载

在kali Linux的官网 (<https://www.kali.org/get-kali/#kali-platforms>) 可以下载不同版本的kali Linux, 为了方便我们一般选择下载虚拟机。

## Choose your |


LIGHT ☒ DARK



### ARM

- ✓ Range of hardware from the leave-behind devices end to high-end modern servers
- ✗ System architecture limits certain packages
- ✗ Not always customized kernel

Works on relatively inexpensive & low powered Single Board Computers (SBCs) as well as modern ARM based laptops, which combine high speed with long battery life.




### Bare Metal

- ✓ Direct access to hardware
- ✓ Customized Kali kernel
- ✓ No overhead

Single or multiple boot Kali, giving you complete control over the hardware access (perfect for in-built Wi-Fi and GPU), enabling the best performance.

Recommended




### Virtual Machines

- ✓ Snapshots functionality
- ✓ Isolated environment
- ✓ Customized Kali kernel
- ✗ Limited direct access to hardware
- ✗ Higher system requirements

VMware & VirtualBox pre-built images. Allowing for a Kali install without altering the host OS with additional features such as snapshots. Vagrant images for quick spin-up also available.


Recommended



### Mobile

- ✓ Kali layered on Android
- ✓ Kali in your pocket, on the go
- ✓ Mobile interface (compact view)


A mobile penetration testing platform for Android devices, based on Kali Linux. Kali NetHunter consists of an NetHunter App, App Store, Kali Container, and KeX.



### Cloud

- ✓ Fast deployment
- ✓ Can leverage provider's resources
- ✗ Provider may become costly
- ✗ Not always customized kernel


Hosting providers which have Kali Linux pre-installed, ready to go, without worrying about infrastructure maintenance.



### Containers

- ✓ Low overhead to access Kali toolset
- ✗ Userland actions only
- ✗ Not Kali customized kernel
- ✗ No direct access to hardware


Using Docker or LXD, allows for extremely quick and easy access to Kali's tool set without the overhead of an isolated virtual machine.



### Live Boot

- ✓ Un-altered host system
- ✓ Direct access to hardware
- ✓ Customized Kali kernel
- ✗ Performance decrease when heavy I/O

Quick and easy access to a full Kali install. Your Kali, always with you, without altering the host OS, plus allows you to benefit from hardware access.



### WSL

- ✓ Access to the Kali toolset through the WSL framework
- ✗ Userland actions only
- ✗ Not Kali customized kernel
- ✗ No direct access to hardware

Windows Subsystem for Linux (WSL) is included out of the box with modern Windows. Use Kali (and Win-KeX) without installing additional software.



## 实验环境

为了简化操作，我们为同学们准备好了Kali Linux的虚拟机镜像，同学们按需选择安装VMWare还是VirtualBox虚拟机，并选择配套的镜像文件。

VirtualBox软件： <https://www.virtualbox.org/wiki/Downloads>

VMWare软件： <https://www.vmware.com/cn/products/workstation-pro/workstation-pro-evaluation.html>

Kali Linux for VirtualBox： [https://pan.baidu.com/s/16ye8-qZa\\_Ub1kn\\_CqHsj3Q](https://pan.baidu.com/s/16ye8-qZa_Ub1kn_CqHsj3Q) （提取码： gw23）

Kali Linux for VMWare： <https://pan.baidu.com/s/1wjsJ8M9Qumj7WnAGMvDHLw> （提取码： r2qf ）

**虚拟机镜像的用户名和密码均为kali**

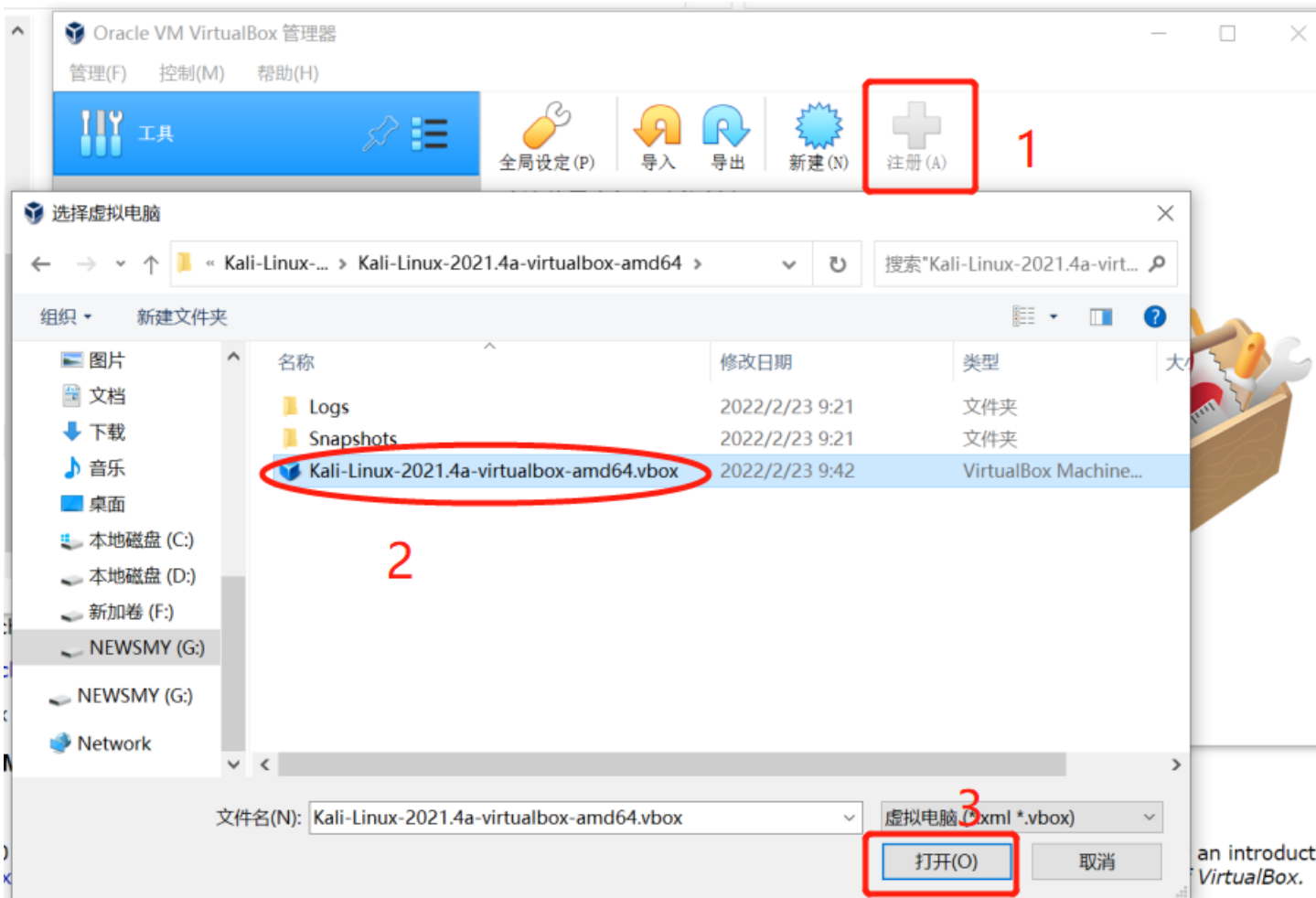
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# 使用VirtualBox虚拟机

点击注册，进入虚拟机路径下，选中Kali-Linux-2021.4a-virtualbox-amd64.vbox，点击打开即可导入虚拟机





打开

此电脑 > 本地磁盘 (D:) > Virtual Machines > kali > Kali\_Linux

搜索 "Kali\_Linux"

组织 新建文件夹

| 名称  | 修改日期           | 类型            | 大小   |
|---|----------------|---------------|------|
| Kali-Linux-2021.4a-virtualbox-amd64.vmx.lck | 2022/3/1 21:16 | 文件夹           |      |
| Kali-Linux-2021.4a-virtualbox-amd64.vmx     | 2022/3/1 15:32 | VMware 虚拟机... | 4 KB |

1

文件名(N): 所有支持的文件 2

打开(O) 取消