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CYBERSECURITY
OffSec
Partner Program

FLISol

“KALI LINUX” – Distro creada para Hackers

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About me:

Soy conocido en el mundo digital como "CHackA0101", cuento con más de 20 años de experiencia en Hacking Ético, Ciberseguridad y Red Team. Recibí el reconocimiento al mejor proyecto de tesis en Inteligencia Artificial aplicada a CRM. Tengo dos Maestrías en Ciberseguridad, fui presidente de la asociación de Hackers de Colombia y ocupé el TOP 1 en Colombia, USA y TOP 14 a nivel mundial en HACK THE BOX en 2021. Estoy certificado como Certified Ethical Hacker, Certified Hacking Forensic Investigator , and Licensed Penetration Tester por el EC-COUNCIL. Impartí clases a los comandos cibernéticos del ejército colombiano, soy programador de exploits reconocidos mundialmente. Soy voluntario como consultor para Debian y Hackers of Planet Earth (HOPE). Asesoro a diversas entidades gubernamentales como la Fiscalía, Ministerio de Defensa, Policía Nacional, Ejército y Fuerza Aérea. He trabajado en proyectos con empresas como ADIDAS, ECOPETROL, Banco BBVA, BTCOM British Telecom, ACH Colombia, Ministerio de Defensa, entre otras. Actualmente soy investigador en Hacking y fundador de la plataforma en la nube para Hacking automático llamada KIGGU PRO.

https://www.linkedin.com/in/chacka0101/

https://github.com/chacka0101

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Veamos un poco de Historia…

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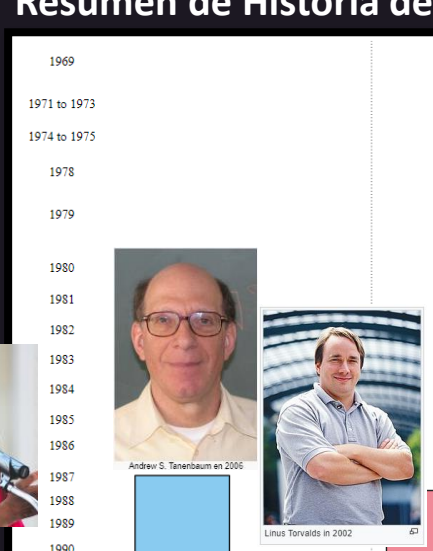
Resumen de Historia de Unix / Linux

Ken Thompson (left) and Dennis Ritchie (right), creators of the Unix operating system

Richard Stallman

FREE SOFTWARE FOUNDATION



https://upload.wikimedia.org/wikipedia/commons/7/77/Unix_history-simple.svg

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Linux Distributions Timeline

https://upload.wikimedia.org/wikipedia/commons/1/1b/Linux_Distribution_Timeline.svg

https://distrowatch.com/search.php?ostype=Linux&category=All&origin=All&basedon=All&notbasedon=None&desktop=All&architecture=All&package=All&rolling=All&isosize=All&netinstall=All&language=All&defaultinit=All&status=Active#simple

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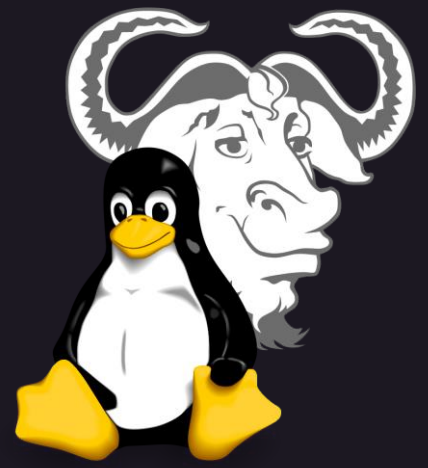
Linux comenzó en el mundo del software libre por el año 1980 con la **idea de crear un sistema operativo libre basado en Unix**, inicialmente llamado **Minix**, pero que a su inventor **Linus Torvalds** no le gustó y acabó creando el suyo propio por el año 1991. **Linus Torvalds** junto con **Richard Stallman** han contribuido enormemente en el desarrollo de paquetes con licencia GNU han creado la **Free Software Fundation** que promueve el software libre y la **Linux Foundation**, de la que también **forma parte Microsoft**. El símbolo que representa a **GNU es un Ñu** y para **Linux el simpático pingüino llamado Tux**.



•El 100% de las 500 supercomputadoras más poderosas en el mundo corren Linux.

•23 de cada 25 páginas activas de Internet corren Linux, la mayoría de estas están hospedadas en la nube.

•El 96% de los servidores más poderosos del mundo corren Linux, la mayoría de estos están hospedados en la nube.

•El 90% de los servidores en los mayores proveedores de servicios de nube son Linux.

https://openwebinars.net/blog/el-poder-de-linux-en-el-cloud-computing/#:~:text=El%20100%25%20de%20las%20500,est%C3%A1n%20hospedados%20en%20la%20nube.

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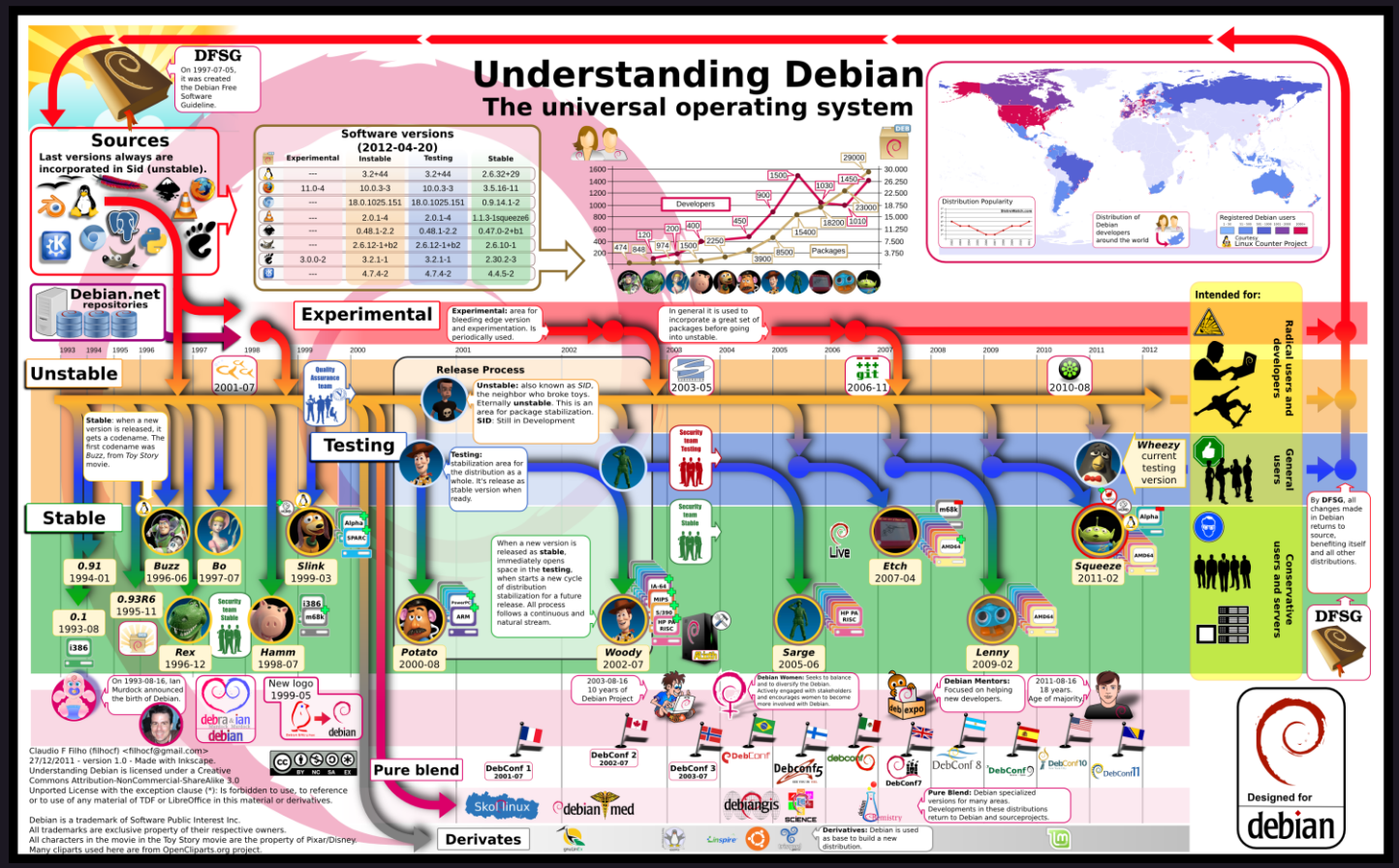
El Sistema Operativo de KALI LINUX es DEBIAN



Debian es un sistema operativo basado en GNU/Linux de código abierto, no comercial y totalmente gratuito para cualquier uso.

- Debian Handbook: https://debian-handbook.info/browse/es-ES/stable/
- https://www.debian.org/doc/manuals/debian-reference/debian-reference.es.pdf
- Las versiones o Releases de Debian tienen "Code Names": https://wiki.debian.org/es/DebianReleases

Kali Linux Distributions Timeline

- KNOPIX - WhoppiX (2004)

- SLAX - WHAX (2005)

- SLAX - BackTrack (2006)
- UBUNTU - BackTrack 4 (2009)
- UBUNTU - BackTrack R1, R2, R3 (2010-2012)

- DEBIAN 7 "Wheezy" - Kali Linux 1.0 (2013)
- DEBIAN - Kali Linux 2.0 (2015-2016)
- DEBIAN - Kali Linux 2019.1 (2019)

...

- DEBIAN - Kali Linux 2024.1 (2024)

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¿Que es KALI LINUX?

¿Que es Kali Linux?

Kali Linux es una distribución basada en Debian GNU/Linux diseñada principalmente para la auditorías de ciberseguridad y hacking.

Fundada y es mantenida por OffSec.

Mati Aharoni y Devon Kearns, ambos pertenecientes al equipo de OffSec, desarrollaron la distribución a partir de la reescritura de BackTrack, antecesora de Kali Linux.

Considerada como la mejor distribución de hacking a nivel mundial.

Raphaël Hertzog (Bux)

Devon Kearns (Dookie)

¿Cómo instalar Kali Linux?

https://www.kali.org/get-kali/#kali-platforms

Choose your Kali

LIGHT DARK

Installer Images

- 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 functionary
- 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

VMware · VirtualBox · Hyper-V · QEMU

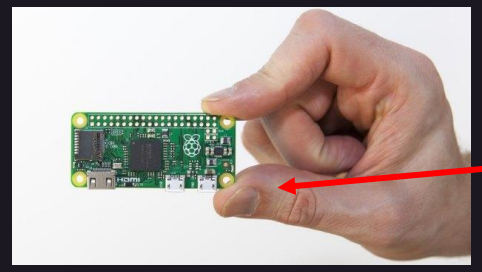
VMware Weekly · VirtualBox Weekly · Hyper-V Weekly · QEMU Weekly

NetHunter Pro

Kali NetHunter Pro is the official Kali Linux build for mobile devices such as the Pine64 PinePhone and PinePhone Pro.

Installation:

1. Install Tow-Boot bootloader on your device
2. Write the image to your MicroSD card, e.g.
   `sudo dd if=IMAGE.img of=/dev/[DEVICE] bs=1M status=progress conv=fsync`
3. Insert the MicroSD card into your device
4. Boot your device from MicroSD card (hold Volume down key until the LED turns blue)
5. Login with user **"kali"** and password **"1234"**



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.

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.

aws marketplace — Search

About · Categories · Delivery Methods · Solutions · AWS IQ · Resources · Become a Channel Partner

Kali Linux

By: Kali · Latest Version: Kali Linux 2023.4

Kali Linux, The Most Advanced Penetration Testing Distribution. Ever.

Linux/Unix · 18 AWS reviews · Free Tier

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.

Docker — Containers

LXC/LXD — Containers

Live Boot

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

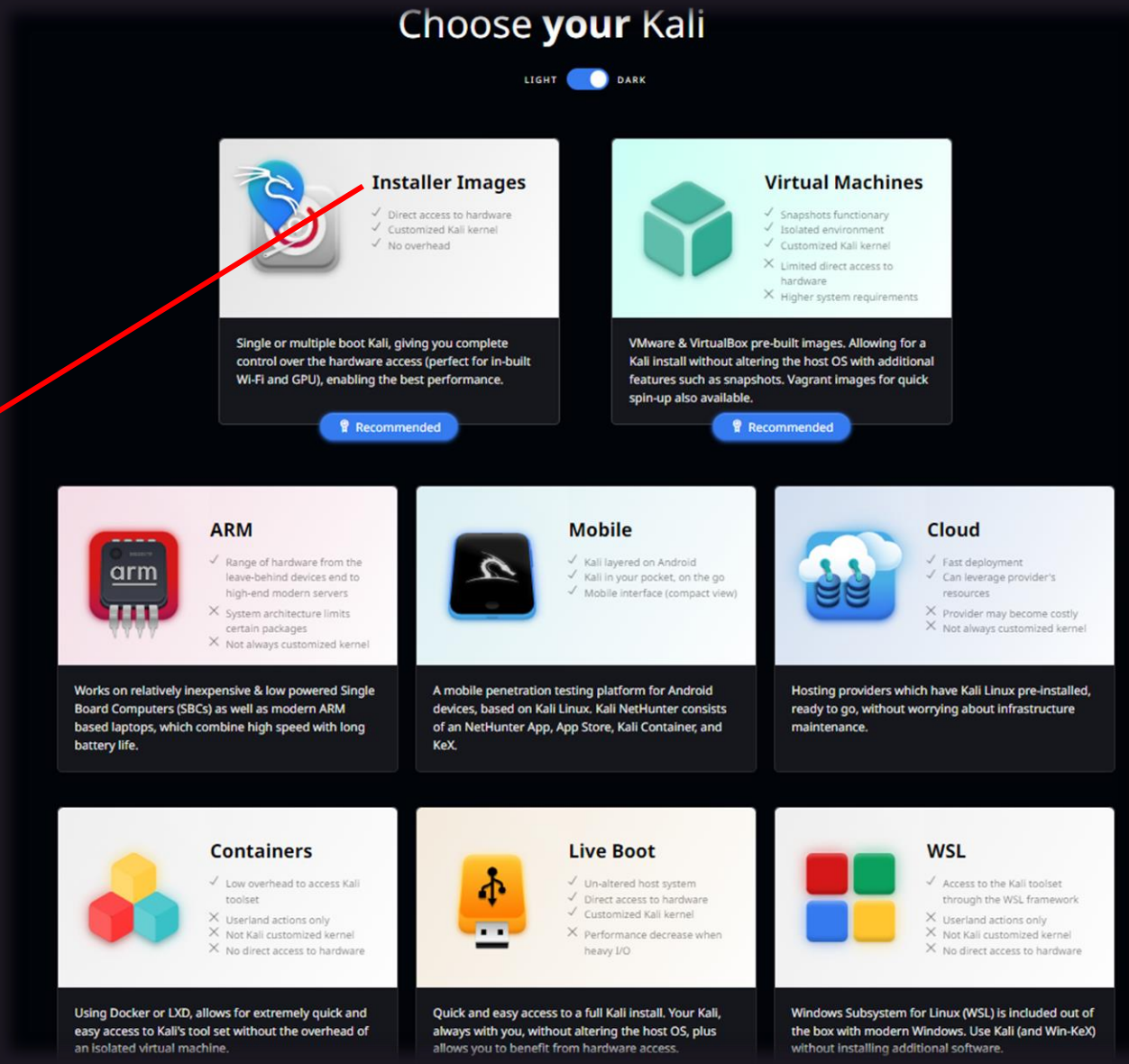
Quick and easy access to a full Kali install. Your Kali, always with you, without altering the host OS, plus allows you to benefit from hardware access.

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.

¿Cómo instalar Kali Linux?



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¿Cómo instalar Kali Linux?

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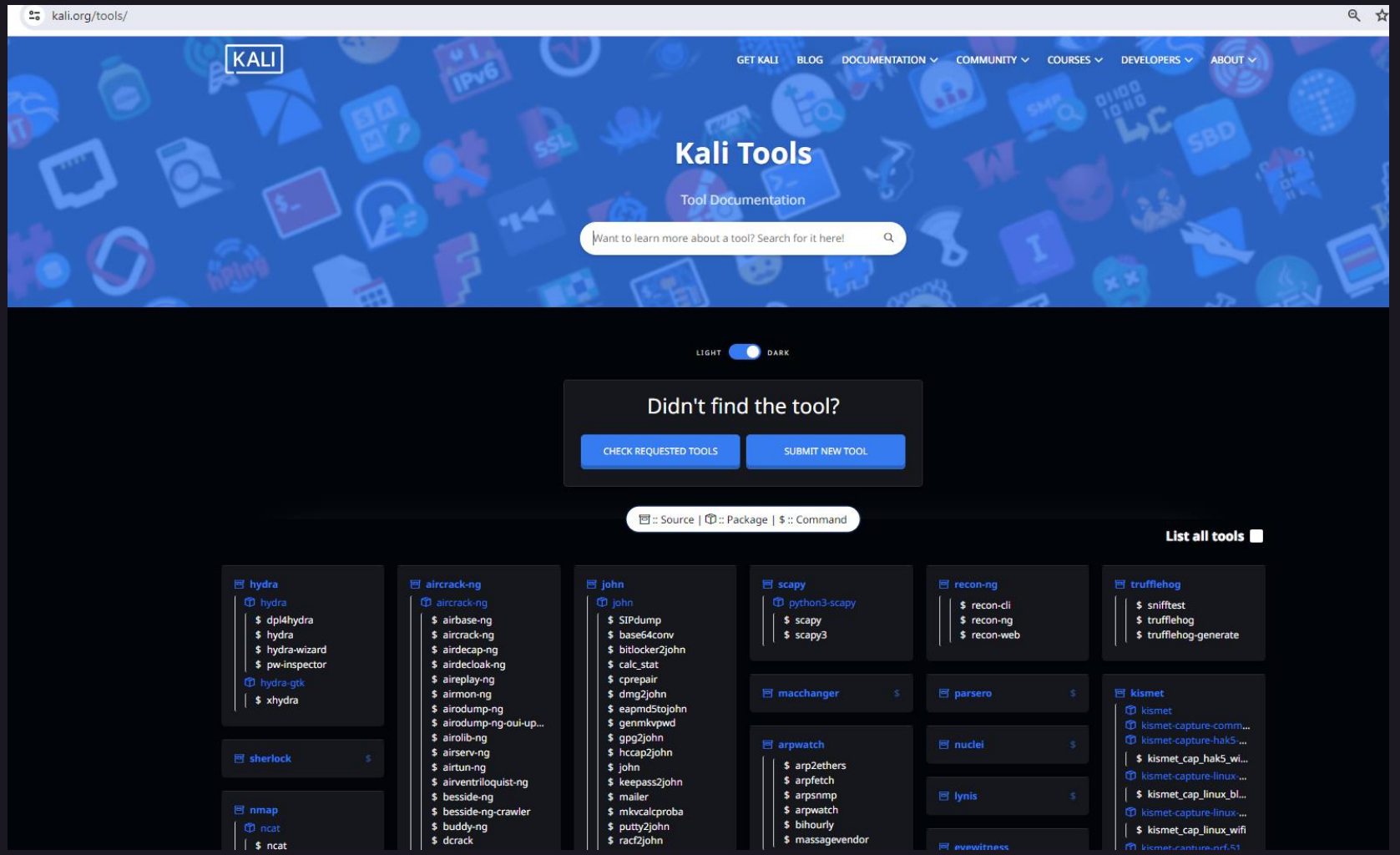
Kali Tools

https://www.kali.org/tools/

Kali Linux cuenta con aproximadamente 600 tools.



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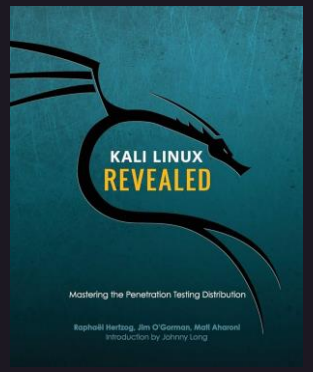
Recursos importantes de KALI LINUX:

PEN-103: Kali Linux Reinvented

KLCP Certification



PEN-103 Certification:
https://www.offsec.com/courses/pen-103/

Download:
https://github.com/chacka0101/Hacking_Books/blob/master/2017%20-%20KALI%20LINUX%20%20-%20Revealed%201st%20edition.pdf

PEN-103 Cheat Sheet Online:
https://github.com/chacka0101/PEN-103---Kali-Linux-Reinvented---KLCP-Certification/blob/master/PEN-103%20-%20Kali-Linux-Revealed-KLR-Cheat-Sheet.md

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Explore our infosec courses and and certifications

Penetration Testing | Web Application Security | Security Operations | Exploit Development

Penetration Testing


PEN-200: Penetration Testing with Kali Linux (OSCP)


PEN-210: Foundational Wireless Network Attacks (OSWP)


PEN-300: Advanced Evasion Techniques and Breaching Defenses (OSEP)

Web Application


WEB-200: Foundational Web Application Assessments with Kali Linux (OSWA)


WEB-300: Advanced Web Attacks and Exploitation (OSWE)

Exploit Development


EXP-301: Windows User Mode Exploit Development (OSED)


EXP-312: Advanced macOS Control Bypasses (OSMR)


EXP-401: Advanced Windows Exploitation (OSEE)

Security Operations


SOC-200: Foundational Security Operations and Defensive Analysis (OSDA)

Learning Paths

Network Penetration Testing Essentials (PEN-100)

Web Application Assessment Essentials (WEB-100)

Exploit Development Essentials (EXP-100)

Security Operations Essentials (SOC-100)

Introduction to Cloud Security (CLD-100)

Introduction to Secure Software Development (SSD-100)

https://www.offsec.com/courses-and-certifications/

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¿Qué es KIGGU PRO?

Plataforma automática CLOUD para ejecutar pruebas de seguridad ofensiva.

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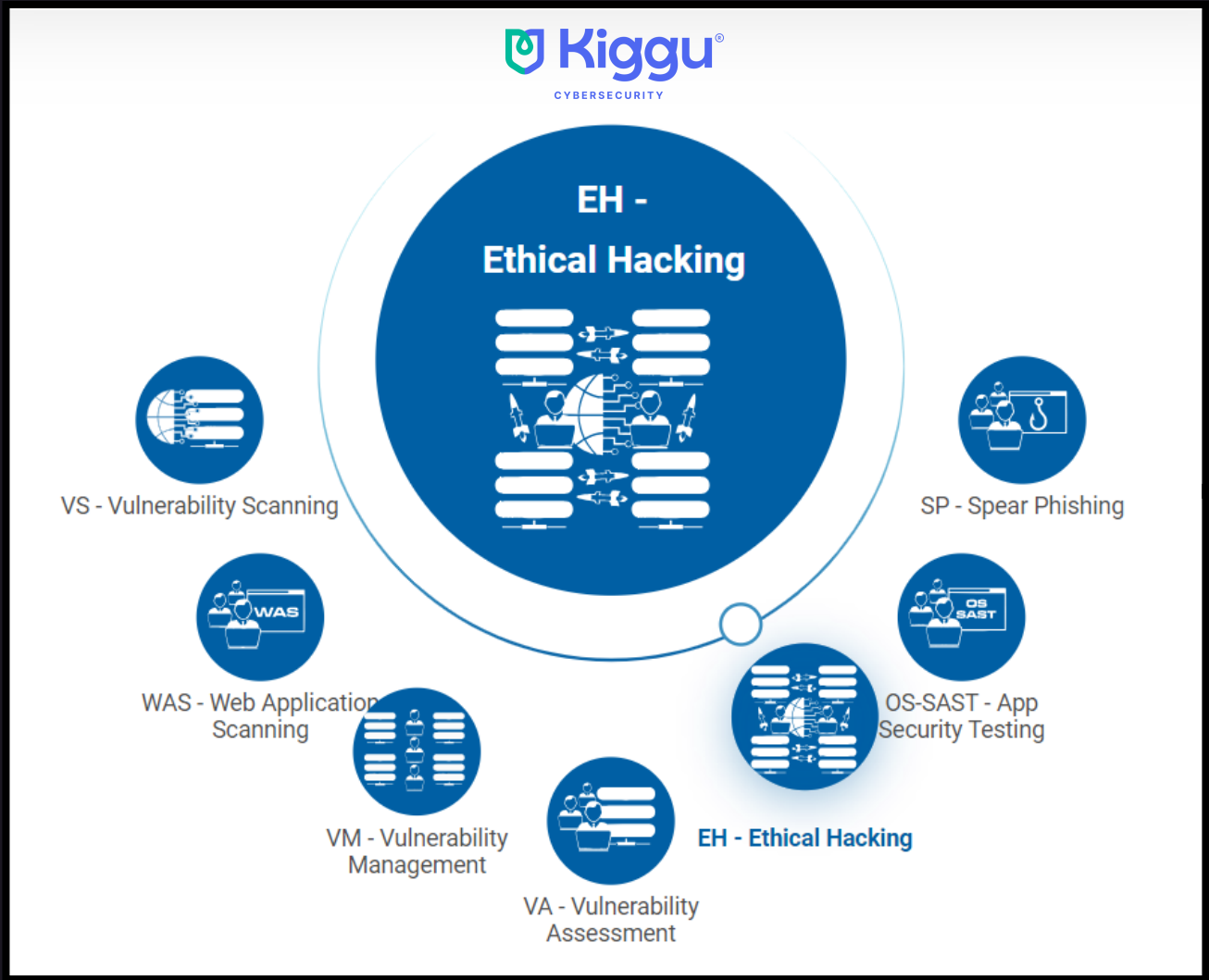
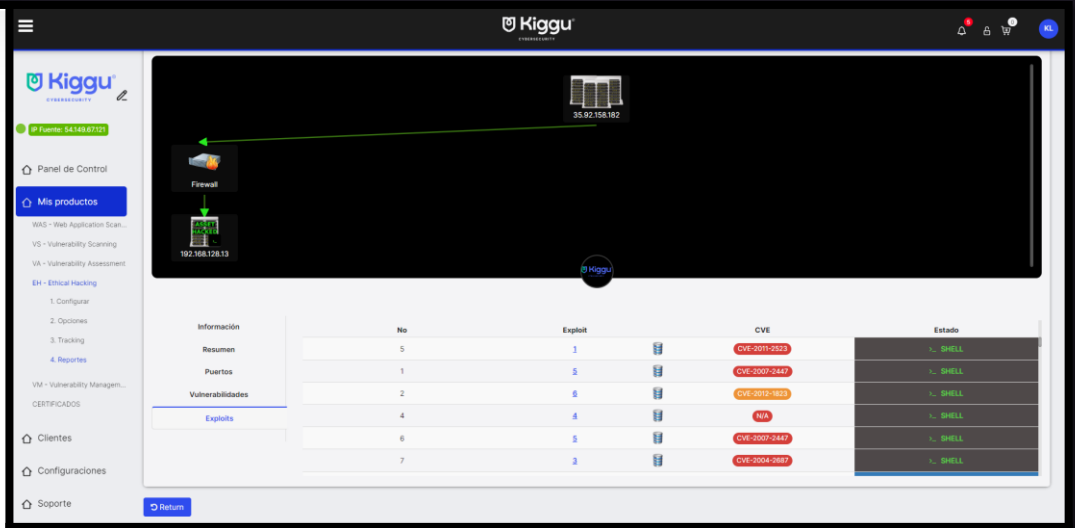
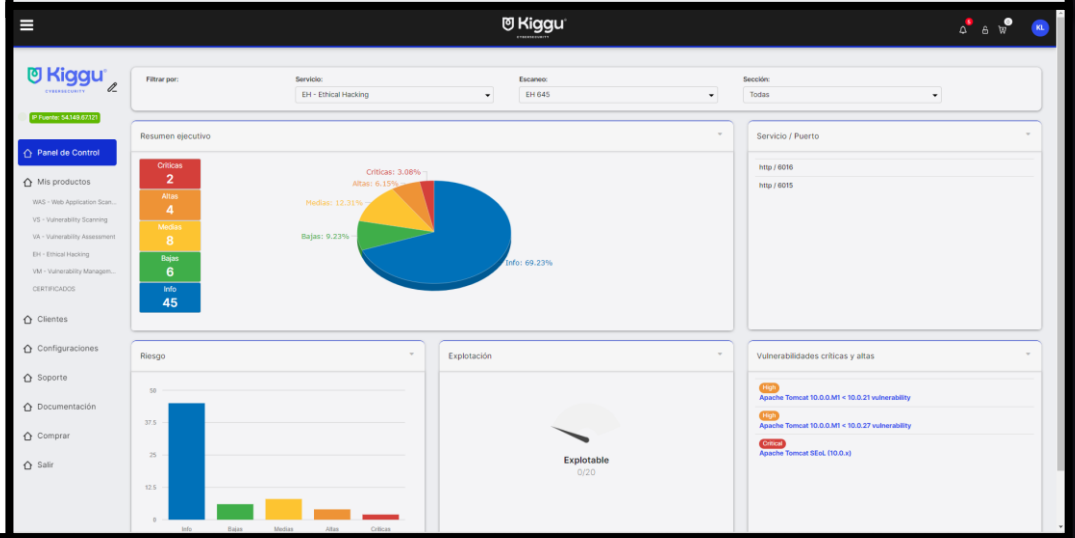
https://kiggu.io/kiggupro/







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AGRADECIMIENTOS ESPECIALES A:

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¿Más información?

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¿Y ahora?...

A Hackear, o ¿A qué venimos?