

CyberpunkOS: Revolutionizing the Fight against Fake News in the Digital World"

Introduction

In the digital age, fake news and misinformation have become a pressing concern. The proliferation of misleading content on social media and online platforms has eroded trust in the information we consume. In this context, the creation of a virtual machine on Linux with a Parrot operating system, dubbed "CyberpunkOS", emerges as an (alternative) solution to face this challenge. This virtual machine not only detects and dismantles fake news, but also educates users on how to discern the truth in a world filled with dubious information.

The Problem of Fake News in the Digital Age

The rise of social media and the ease of sharing information online has led to the massive spread of fake news. Misinformation can have significant consequences, from poor decision-making to the polarization of society. The need to address this problem effectively has led to the development of CyberpunkOS. The public opinion in belief of the Fake News has had a great impact, hence our distro provides support to the cybersecurity analyst and the journalist to deny and find the truth.

The Birth of CyberpunkOS

CyberpunkOS was born as a virtual machine on Linux with a Parrot operating system. Its approach helps to seek to deny false news, videos, images (whether personal or from the general public). Using open source and paid OSINT tools, there will be a way to identify patterns and characteristics of deceptive content.

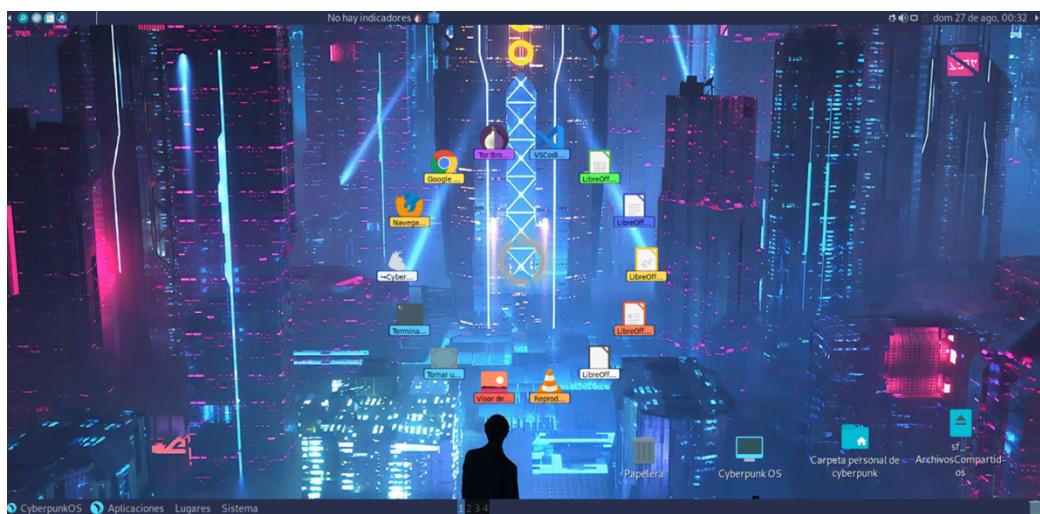
An Ally in the Fight

CyberpunkOS is not intended to replace human judgment, but rather to strengthen it. Education is an essential component of our distro's mission. Providing users with resources to identify the signs of fake news and offers guidelines to verify the authenticity of the information. By empowering individuals with tools to navigate the ocean of information online, a stronger defense against Fake News is built.

Below are the functionalities and specifications of the distribution.



Cyberpunk OS is a virtual machine based on Linux Parrot Version 5.3 Electro Ara with architecture amd64, arm64. This '.ovf' has integrated different tools for investigations of information gathering in open sources (OSINT) about **Fake News**.

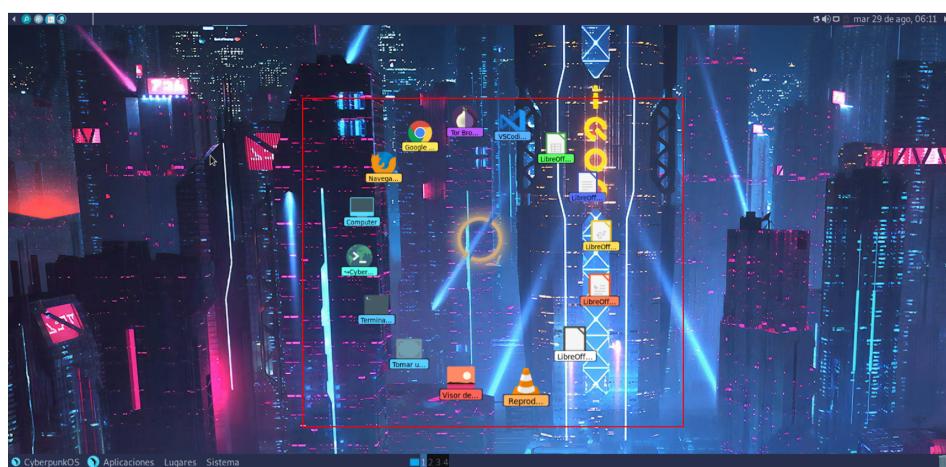


BROWSERS

Cyberpunk OS has 3 different browsers (Chrome, Firefox and Tor) with their respective bookmarks and web extensions. Browser bookmarks are categorized:

- Search engines
- Deep web search engine
- Image Search and Analysis
- Fake News Check
- Information verification platform
- OSINT Services
- VulsDB
- User investigations
- Others

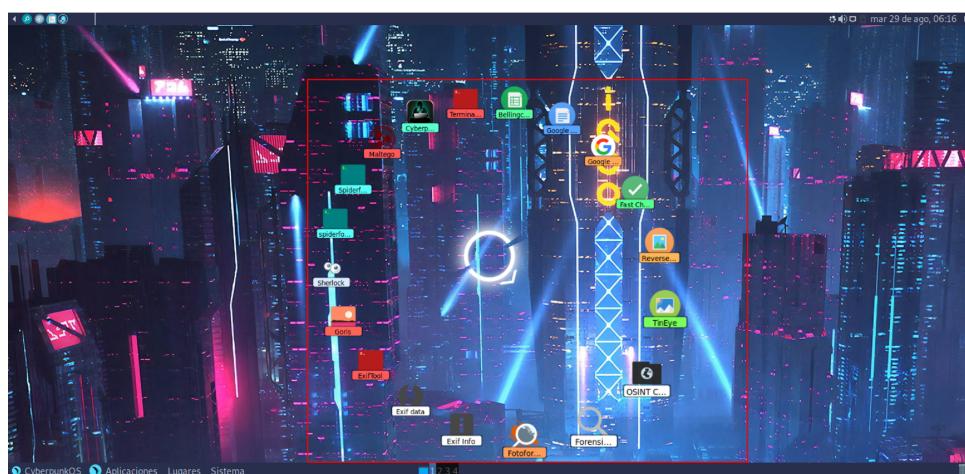
TOOLS



The following applications are presented in the main menu:

- Firefox
- Google Chrome
- Tor Browser
- Visual Studio Code
- Libre Office Suite
- VLC
- Pictures viewer
- Take screenshot
- Terminal
- Computer
- Cyberpunk Tools

Cyberpunk Tools



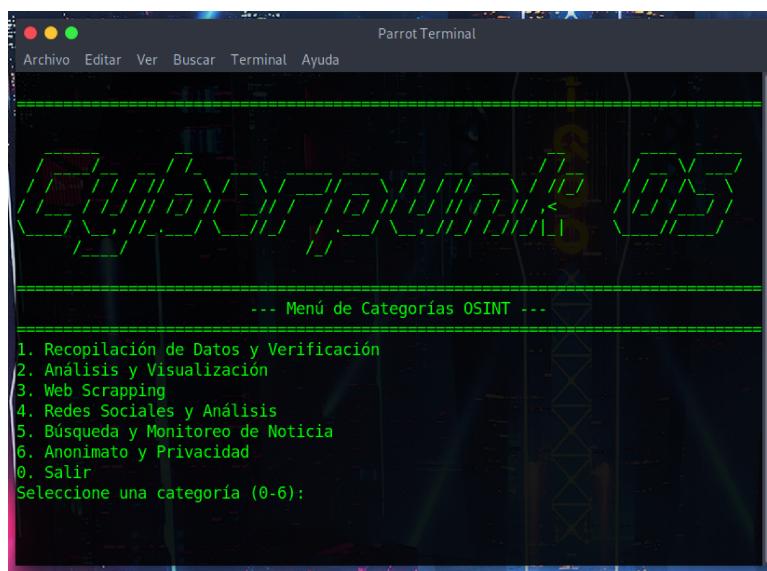
Cyberpunk Tools is a submenu where you will find the following OSINT tools:

- **Cyberpunk Tools Script** (Script created for the distribution that contains tools for each of the categories)
- Terminal as superUser
- **Bellingcat's Online Investigation Toolkit**: Comprehensive OSINT resources for digital investigations.
- **Google News**: bAggregator providing latest news articles from diverse sources.
- **Google Alerts**: Notification service for tracking specified keywords in news and web content.
- **Fast Check Org**: Fact-checking tool to verify online information and sources.
- **Reverse Image Search**: Technique to find similar images online based on an uploaded image.
- **TinEye**: Image search engine that locates where an image has been used on the internet.
- **Osint Combine**: Tool to gather and analyze open-source intelligence (OSINT) data.
- **Forensically**: Suite of digital forensics tools for analyzing images and metadata.
- **FotoForensic**: Online tool to examine the authenticity and manipulation of images.
- **ExitInfo & Exit Data**: Tools to extract and analyze metadata from images.
- **ExifTool**: Software for viewing and editing metadata within files, including images.
- **Goris**: OSINT tool for researching and analyzing online information.
- **Sherlock**: Tool to search for a person's social media profiles across different platforms.
- **SpiderFoot**: Open-source OSINT automation framework for data collection.
- **Maltego**: Data visualization tool for link analysis and gathering information on entities.

Cyberpunk OS Script

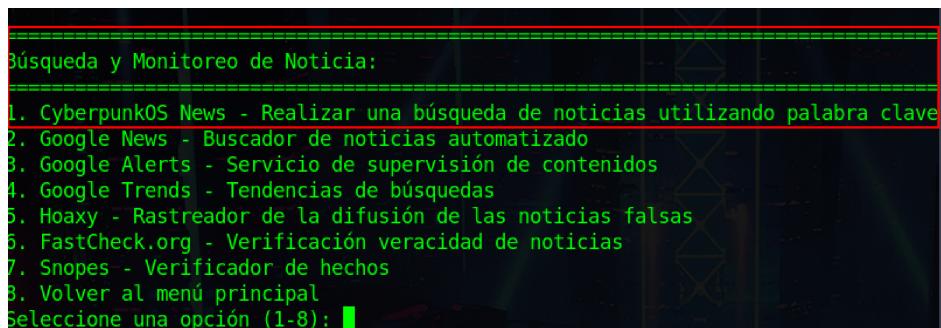
The script has been created using mainly Python, but also has some parts in Bash. We have based the script on our hypothesis, so we have created the following categories:

- Data Collection and Verification
- Analysis and Visualization
- Web Scrapping
- Social Networks and Analytics
- News Search and Monitoring
- Anonymity and Privacy



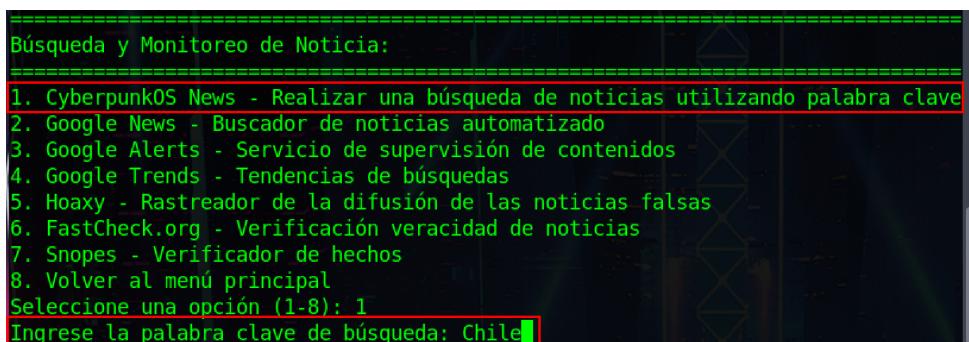
Script cpNews (Cyberpunk News)

We have created a Python script that performs a keyword search across various RSS feeds from the world's leading news outlets. This script can be executed from option 5 (Search and Monitoring News) of the CyberpunkTools script. Then select option number 1 – CyberpunkOS News:

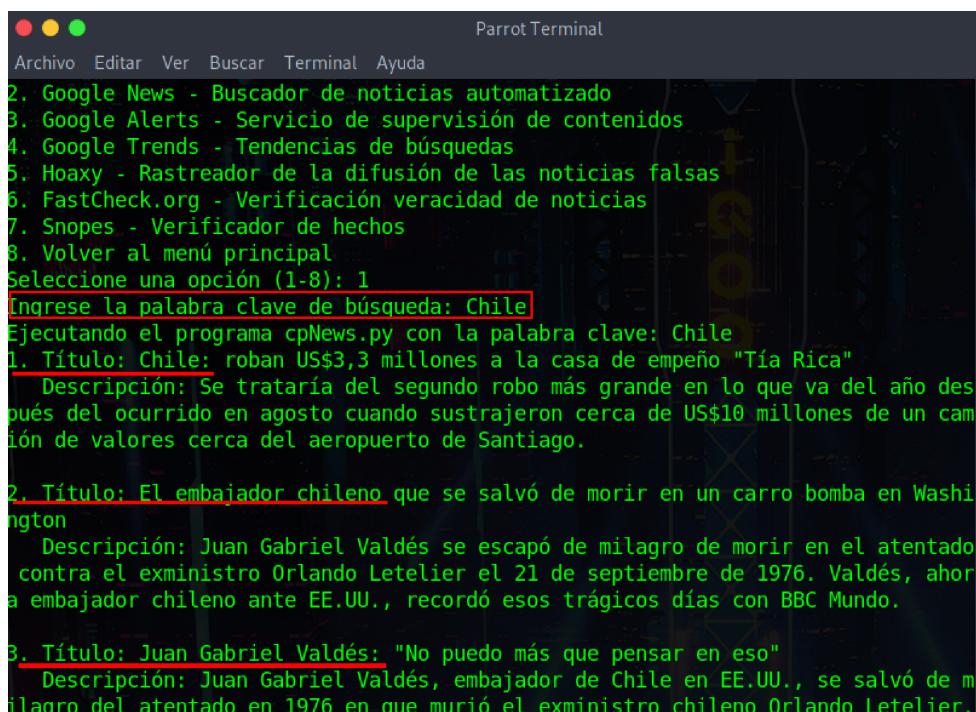


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Búsqueda y Monitoreo de Noticia:
=====
1. CyberpunkOS News - Realizar una búsqueda de noticias utilizando palabra clave
2. Google News - Buscador de noticias automatizado
3. Google Alerts - Servicio de supervisión de contenidos
4. Google Trends - Tendencias de búsquedas
5. Hoaxy - Rastreador de la difusión de las noticias falsas
6. FastCheck.org - Verificación veracidad de noticias
7. Snopes - Verificador de hechos
8. Volver al menú principal
Seleccione una opción (1-8):
```

Once option number 1 is selected, we will be asked to enter a keyword for the search, for example Chile. The program will show all the news related to Chile



```
Búsqueda y Monitoreo de Noticia:
=====
1. CyberpunkOS News - Realizar una búsqueda de noticias utilizando palabra clave
2. Google News - Buscador de noticias automatizado
3. Google Alerts - Servicio de supervisión de contenidos
4. Google Trends - Tendencias de búsquedas
5. Hoaxy - Rastreador de la difusión de las noticias falsas
6. FastCheck.org - Verificación veracidad de noticias
7. Snopes - Verificador de hechos
8. Volver al menú principal
Seleccione una opción (1-8): 1
Ingrrese la palabra clave de búsqueda: Chile
```



```
Parrot Terminal
Archivo Editar Ver Buscar Terminal Ayuda
2. Google News - Buscador de noticias automatizado
3. Google Alerts - Servicio de supervisión de contenidos
4. Google Trends - Tendencias de búsquedas
5. Hoaxy - Rastreador de la difusión de las noticias falsas
6. FastCheck.org - Verificación veracidad de noticias
7. Snopes - Verificador de hechos
8. Volver al menú principal
Seleccione una opción (1-8): 1
Ingrrese la palabra clave de búsqueda: Chile
Ejecutando el programa cpNews.py con la palabra clave: Chile
1. Título: Chile: roban US$3,3 millones a la casa de empeño "Tía Rica"
    Descripción: Se trataría del segundo robo más grande en lo que va del año después del ocurrido en agosto cuando sustrajeron cerca de US$10 millones de un camión de valores cerca del aeropuerto de Santiago.

2. Título: El embajador chileno que se salvó de morir en un carro bomba en Washington
    Descripción: Juan Gabriel Valdés se escapó de milagro de morir en el atentado contra el exministro Orlando Letelier el 21 de septiembre de 1976. Valdés, ahora embajador chileno ante EE.UU., recordó esos trágicos días con BBC Mundo.

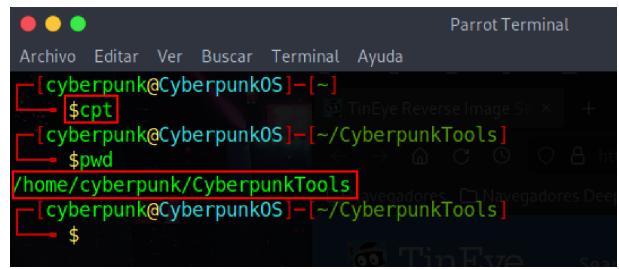
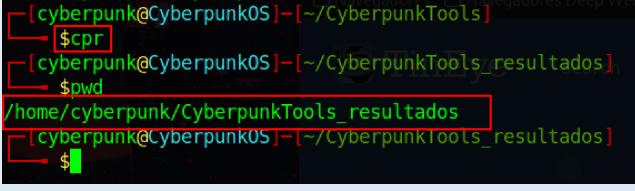
3. Título: Juan Gabriel Valdés: "No puedo más que pensar en eso"
    Descripción: Juan Gabriel Valdés, embajador de Chile en EE.UU., se salvó de milagro del atentado en 1976 en que murió el exministro chileno Orlando Letelier.
```

Execution results are stored in the Cyberpunk Tools output directory (command-level alias cpr):

```
Los resultados se han guardado en el archivo: /home/cyberpunk/CyberpunkTools_res
ultados/noticias_2023-08-29_06-49-23.txt
Presiona Enter para volver al menú principal.

[cyberpunk@CyberpunkOS]~[~]
$cp
[cyberpunk@CyberpunkOS]~/CyberpunkTools_resultados
$ls -lra
total 68
-rw-r--r-- 1 cyberpunk cyberpunk 5678 ago 27 00:22 noticias_2023-08-27_00-21-13.txt
-rw-r--r-- 1 cyberpunk cyberpunk 1025 ago 27 00:23 fepezoabarc.txt
-rw-r--r-- 1 cyberpunk cyberpunk 553 ago 27 00:23 diannitaro.txt
-rw-r--r-- 1 cyberpunk cyberpunk 1415 ago 27 06:59 metadatos.json
-rw-r--r-- 1 cyberpunk cyberpunk 1150 ago 27 07:00 metadatos.csv
-rw-r--r-- 1 cyberpunk cyberpunk 5343 ago 27 21:26 scripts.txt
-rw-r--r-- 1 cyberpunk cyberpunk 70 ago 27 21:26 robots.txt
-rw-r--r-- 1 cyberpunk cyberpunk 4991 ago 27 21:26 internal.txt
-rw-r--r-- 1 cyberpunk cyberpunk 3450 ago 27 21:26 intel.txt
-rw-r--r-- 1 cyberpunk cyberpunk 1628 ago 27 21:26 fuzzable.txt
-rw-r--r-- 1 cyberpunk cyberpunk 1129 ago 27 21:26 external.txt
drwxr-xr-x 1 cyberpunk cyberpunk 132 ago 27 21:30 naeki.cl
drwxr-xr-x 1 cyberpunk cyberpunk 1040 ago 29 05:55 ..
-rw-r--r-- 1 cyberpunk cyberpunk 1991 ago 29 06:48 noticias_2023-08-29_06-47-28.txt
drwxr-xr-x 1 cyberpunk cyberpunk 454 ago 29 06:49 .
-rw-r--r-- 1 cyberpunk cyberpunk 6733 ago 29 06:50 noticias_2023-08-29_06-49-23.txt
[cyberpunk@CyberpunkOS]~/CyberpunkTools_resultados
$
```

Shortcuts and aliases

ATAJO/ALIAS	DESCRIPCIÓN
CONTROL + ALT + A	Menú/Lanzador de aplicaciones Cyberpunk
cpt	This alias executes the cd command to position us in the directory where the Cyberpunk Tools are located.
	
cpr	This alias executes the cd command to position us in the directory where all the results of the tools contained and executed in the CyberpunkTools script are stored.
	

To access the machine, the following credentials are required:

- **User:** Cyberpunk
- **Password:** CyberpunkOS

GITHUB

<https://github.com/cyberpunkOS/CyberPunkOS>

CONTACT

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Thanks for your support, we hope you can solve and find the truth 🧑 with our distro CyberPunk OS.