# Lab - Install Additional Tools Using Katoolin3

## Overview –

In this lab, students will learn how to install all the available tools for Kali. Katoolin3 is a script that helps to install Kali Linux tools on a Linux distribution of your choice built using Ubuntu. This will allow us to use the penetration and forensic tools provided by the Kali Linux development team on our preferred Linux distribution.

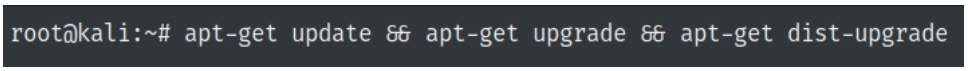
This lab can be used to install Katoolin3 on any distribution running Ubuntu 20.04 LTS or greater. This includes Kali and the CSI Linux Analyst.

**Begin the lab!**

Logon to Kali or your CSI Linux Analyst. Ensure you have your network adapter set for Internet access using NAT.

Ensure you have taken a most recent Snapshot of your current installation then, and only then, make sure your Kali is up to date.

```
apt-get update && apt-get upgrade && apt-get dist-upgrade
```




For CSI Linux Analyst, use the **powerup** command . –

Copy and paste the following commands one at a time into the terminal. Hit enter after each command:

Make sure you have enabled **[universe]** repository. This is for Kali only. CSI Linux has this repository already configured.

The `add-apt-repository command` is not a standard package that can be installed with apt on Kali Linux. Instead, it is a component of the software-properties-common package that must be installed first before running the `add-apt-repository` command.

To install software-properties-common package, run the following command.

```
sudo apt-get install software-properties-common
```

Next, add the following repository to your `source.list` file using the following command.

```
sudo add-apt-repository "deb http://archive.ubuntu.com/ubuntu
$(lsb_release -sc) universe"
```

If, after running the above syntax, you receive the following terminal output when trying to run an update or upgrade,

```
Reading package lists... Done
E: The repository 'http://ftp.jp.debian.org/debian main Release' does not
have a Release file.
N: Updating from such a repository can't be done securely, and is therefore
disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration
details.
```

Run the falling commands:

```
echo deb http://http.kali.org/kali kali-rolling main contrib non-free >
/etc/apt/sources.list

apt-get update && apt-get upgrade && apt-get dist-upgrade
```

Clone the Katollin3 GitHub repository using the command:

```
sudo git clone https://github.com/s-h-3-l-l/katoolin3
```

Go to the katoolin3 directory:

```
cd katoolin3/
```

Change the permissions to make Katoolin executable.

```
sudo chmod +x ./install.sh
```

Install Katoolin

```
sudo ./install.sh
```

If the program installed successfully, you would see the following message:

```
Executing: /tmp/apt-key-gpghome.r4OwC90o2Q/gpg.1.sh -qq --keyserver
pool.sks-keyservers.net --recv-keys ED444FF07D8D0BF6
Successfully installed.
Run it with 'sudo katoolin3'.
```

Launch the program

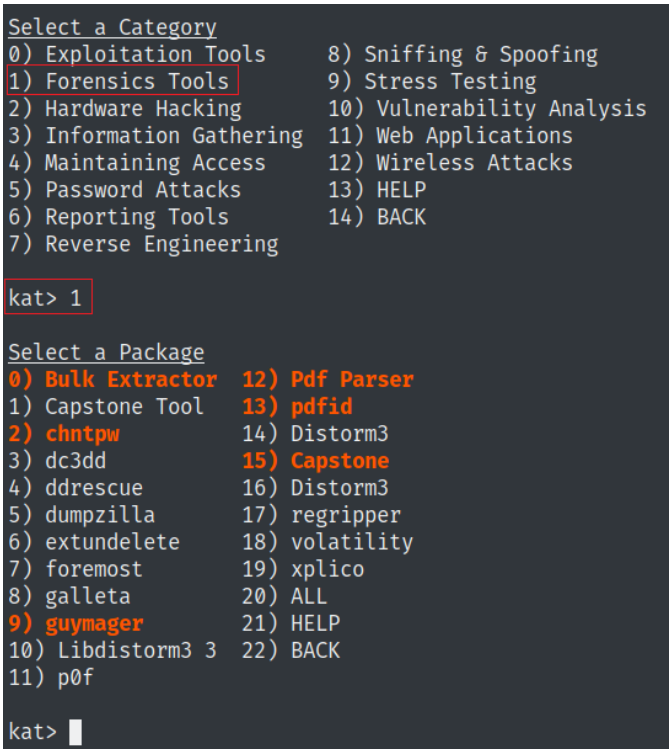
```
sudo katoolin3
```

The program opens.

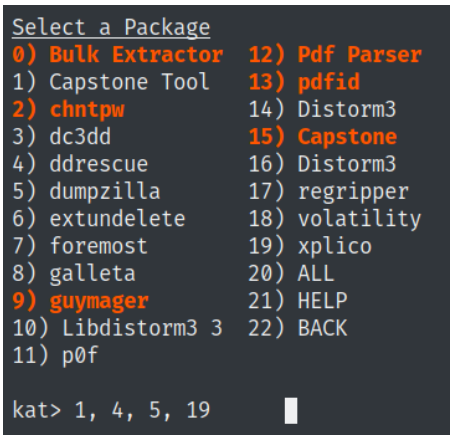

To view what categories are currently available, type in the number 0.


When you open any category, Katoolin3 will show you all currently installed tools using the color orange.

In this example, I open the forensic tools category by typing in the number 1at the prompt. Every tool highlighted in orange is already installed.




Multiple tools can be installed by typing in the number of the number, a comma, and the next number.




**Update Katoolin3**

Katoolin3 comes with an update script.

Go to the directory where you have cloned Katoolin3:

```
$ cd katoolin3/
```

Make the update script executable:

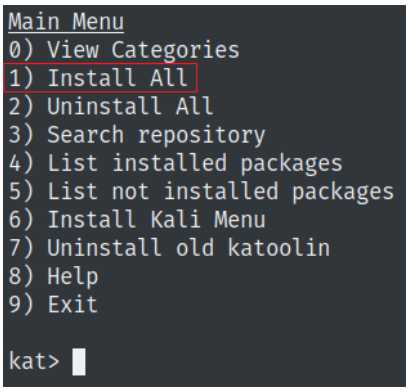
```
$ chmod +x ./update.sh
```

Run the update script to update Katoolin3 to obtain the latest available version.

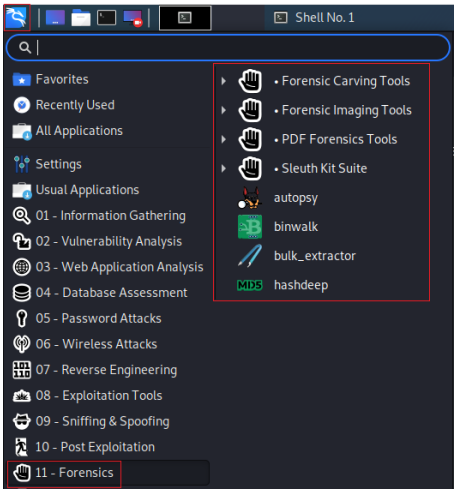
```
$ sudo ./update.sh
```

If you would like to select all the available tools for installation, first make sure your kali or CSI Linux installation has enough dynamic disk space, and the location of the virtual disks can handle the additional tools.

From the main menu of Katoolin3, type 1, and allow all 300 plus tools to install at the prompt.




You can check your application menu to see what tools have been added to each category.




**Summary –**

Katoolin3 offers several improvements over katoolin, as listed below.

- Katoolin3 is ported to **Python 3**. Katoolin is written in Python 2.x.
- It provides up-to-date packages. The old katoolin uses an outdated package list.

- The old katoolin breaks if a package isn't available in the repositories anymore. Katoolin3 detects the missing packages and ignores them.
- Unlike old Katoolin, it is possible to remove all packages installed by Katoolin3. You can remove packages individually or all at once.
- Some users have complained that they can't update or upgrade their Ubuntu OS after installing the old Katoolin. This issue has been addressed and fixed in the newer Katoolin3 version. The upgrade won't break your system because the Kali repositories only get enabled during the running of katoolin3.
- The old katoolin modifies and even deletes important system configuration files. These potentially dangerous operations have been changed in Katoolin3.
- It is difficult to add new packages to the package list in the old Katoolin. Not anymore! Maintaining the package list just got better and a lot easier with Katoolin3.

End of the lab!