**Linux for hackers 4 – Adding and removing software**

1. Apt package 2)GUI based installations 3)git

Search for a package : **apt-cache search ‘keyword’**

**Ex: apt-cache search snort**

Adding software : **apt-get install PackageName**

**Ex: apt-get install snort**

Removing software : **apt-get remove snort**

Here remove will not remove the configuration files, which means you can reinstall the same package in the future without reconfiguring.

**apt-get purge snort**  continue y/n . so after installation we have installed libraries and dependencies and now they are no longer required so they are removed too.

Updating packages : **apt-get update**

This command will update all the outdated packages. Softwares in the repository on your system will be updated. If successful, terminal will show reading package lists….Done

Upgrading packages : **apt-get upgrade**

This will upgrade all the out of date packages with this command. You should see in the output that system estimates that the amount of HD space necessary for the software package. Go ahead and enter Y if you want to continue and have enough HD space for the upgrade.

Adding repositories to your source.list file: what is a source.list : [What Is Source List In Kali Linux? – Systran Box](https://www.systranbox.com/what-is-source-list-in-kali-linux/)

What Is Source List In Linux?

This is who the sources are. The list file is a key component of any Ubuntu install when it comes to adding or upgrading applications. In addition to this, your system performs updates using this facility. You might need this file to help you determine where you may download programs for installation or upgrades.

Kali repository – the servers that hold the software for particular distributions of linux are known as repositories.

**less /etc/apt/source.list**

for example if you want to get java from the repository, we can add ubuntu repository and run the installation.

1. GUI – based installer: Newer versions of kali no longer include GUI based software installation tool. So let’s install one with **apt-get install synaptic & Gdebi**

Synaptic 🡪 settings 🡪 synaptic package manager 🡪 search snort 🡪 select and apply

1. Installing software with GIT: sometimes software may not be available on repositories, especially if it is new and may be available on github (github.com)

Ex: bluediving (bluetooth hacking and pentesting suite). Search for it on github and get the url.

**$git clone** [**https://github.com/balle/bluediving.git**](https://github.com/balle/bluediving.git)

The above command will copy all files to your local, now check ls -l

**Exercise:**

1. Install a new software package from the Kali repository.

2. Remove that same software package.

3. Update your repository.

4. Upgrade your software packages.

5. Select a new piece of software from github and clone it to your system.