**Experiment 1**

* **Rats Tool:-**

**Install Command:-**

1. sudo git clone https://github.com/andrew-d/rough-auditing-tool-for-security
2. cd rough-auditing-tool-for-security/
3. sudo ./configure
4. sudo make
5. sudo make install

**Execute Command:-**

1. rats filename

Example: rats ocr.py, rats palin.c, etc

* **FlawFinder:-**

**Install Command:-**

1. sudo apt-get install python-pip (If not installed).
2. sudo pip install flawfinder

**Execute Command:-**

1. Flawfinder filename

Example: flawfinder ocr.py, flawfinder bufferoverflow.c

**Experiment 2**

* **Nessus:-**

**Installation:-**

1. Visit (“https://www.tenable.com/downloads/nessus”) website and download compatible nessus 8.7.2 for your ubuntu(It's in .deb file).
2. Open Terminal and goto Download directory(cd downloads).
3. sudo dpkg -i Nessus\*.deb
4. Start Nessus Scanner by typing /etc/init.d/nessusd start.
5. Then Open browser and visit (“https://localhost:8834”).
6. Click on Nessus Essentials and get the activation code and complete the process.
7. Now sit back and relax, it will take more than 2 hour to initialize the process.

* **Nikto:-**

**Installation:-**

1. sudo apt-get install nikto

**Execution:-**

1. sudo nikto -h https://www.google.com

**Experiment 3**

* **Httrack:-**

**Installation:-**

1. sudo apt-get install httrack

**Execution:-**

1. sudo httrack "https://www.w3schools.com/" -O "https://www.w3schools.com/"

**Experiment 4**

* **Wapiti:-**

**Installation:-**

1. Download wapiti 3.0.2.
2. Extract using “sudo unzip wapiti3-3.0.2.zip”
3. cd wapiti3-3.0.2
4. sudo apt-get install python3-venv libxml2 libxml2-dev libz-dev libxslt1-dev python3-dev
5. sudo python3 -m venv wapiti\_venv
6. . wapiti\_venv/bin/activate
7. sudo python setup.py install
8. Wapiti -h (For help).

**Execution:-**

1. wapiti -u http://testphp.vulnweb.com/

* **Beef:-**

**Installation:-**

1. sudo apt-get install ruby ruby-dev
2. sudo apt-get install git
3. git clone https://github.com/beefproject/beef
4. cd beef
5. ./install
6. sudo ./install

**Execution:- (“https://www.youtube.com/watch?v=sB9whT\_QILA”)**

1. ./beef
2. Change default password from config.ymal
3. Open browser and go to http://127.0.0.1:3000/ui/authentication
4. Enter username and password.
5. And visit above given link for execution.

**Experiment 5**

* **SqlMap:-**

**Installation:-**

1. sudo apt-get install sqlmap

**Execution:-**

1. sqlmap -u http://testphp.vulweb.com/listproducts.php?cat=1 --dbs
2. sqlmap -u http://testphp.vulnweb.com/listproducts.php?cat=1 -D acuart –tables
3. sqlmap -u http://testphp.vulnweb.com/listproducts.php?cat=1 -D acuart -T products –columns
4. sqlmap -u http://testphp.vulnweb.com/listproducts.php?cat=1 -D acuart -T products -C name --dump

**Experiment 6**

* **Metasploit:-(“https://github.com/rapid7/metasploit-framework/wiki/Nightly-Installers”)**

**Installation:-**

1. curl https://raw.githubusercontent.com/rapid7/metasploit-omnibus/master/config/templates/metasploit-framework-wrappers/msfupdate.erb > msfinstall && \

chmod 755 msfinstall && \

./msfinstall

**Execution:-**

1. msfconsole
2. https://www.tutorialspoint.com/metasploit/metasploit\_brute\_force\_attacks.htm

**Experiment 9**

* **“**[**https://www.youtube.com/watch?v=ycH4Cprtcow**](https://www.youtube.com/watch?v=ycH4Cprtcow)**”**

**Experiment 11**

* **DD:-**

1. sudo dd if=/dev/sda1 of=dhruv bs=65536 conv=noerror,sync

* **DC3DD:-**

1. sudo apt-get install dc3dd
2. sudo dc3dd if=/dev/sda1 of=/mnt/sdb.dd hash=md5

* **Debugfs:-**

1. Visit the link https://www.tecmint.com/debugfs-command-show-file-creation-time-in-linux/

**Experiment 12**

* **FTKImager:-(“**https://www.cybrary.it/0p3n/using-ftk-imager-cli-challenging-new-disks-technologies**”)**

**Installation:-**

1. curl -o ftk.tar.gz https://ad-zip.s3.amazonaws.com/ftkimager.3.1.1\_ubuntu64.tar.gz
2. tar zxvf ftk.tar.gz
3. sudo mv ftkimager /usr/local/bin
4. cd /usr/local/bin

**Execution:-**

1. sudo ./ftkimager /dev/sda1 /home/viraj/ --e01 --compress 9 --case-number 1700345498 --evidence-number ITEM001 --description "This crime happened today " --examiner "Viraj" --notes "Cases and Notes"

* **Autopsy:- (karna maaat abhi)**

**Installation:-**

1. Download “<https://github.com/sleuthkit/autopsy/releases/download/autopsy-4.13.0/autopsy-4.13.0.zip>”
2. Download “<https://github.com/sleuthkit/sleuthkit/releases/download/sleuthkit-4.7.0/sleuthkit-java_4.7.0-1_amd64.deb>”
3. sudo apt-get install testdisk
4. Download .deb file for java8 jre package

“<https://www.azul.com/downloads/zulu-community/?&version=java-8-lts&os=&os=ubuntu&architecture=x86-64-bit&package=jre>”

1. Download “<https://www.azul.com/downloads/zulu-community/?&version=java-8-lts&os=&os=ubuntu&architecture=x86-64-bit&package=jdk-fx&show-old-builds=true>”