

Export talk on Python for Pen testing and Digital Forensics.

Date: 2nd January 2021

Time: 12:30 PM to 02:00 PM

Resource Persons: Mr. Abhishek Kumar Srivastava, Sr. Solution Architect, Exaleap Semiconductors, Bengaluru

Program Coordinator: Prof. Seema B. Joshi, Assistant Professor (Cyber Security), GTU-GSET

Objective of the Event:

The objective of this expert session was to enhance the programming skill of students in pen testing and digital forensics in context of Python Programming.

About the Event:

The expert session was conducted by Mr. Abhishek Kumar Srivastava. He had discussed the fundamentals of Pen Testing and Digital Forensics and importance of python programming in the field of Cyber Security. The hand-on experiments had been presented during the session such as Brute force attack, Password cracking, Network information gathering, port scanning, etc.

Targeted Audience: GTU-GSET Students of ME CE (Cyber Security).

Outcomes:

At the end of the program, students were able to learn the fundamentals of Pen testing and Digital Forensics as well as the usage of Python Programming.

The top screenshot shows a Zoom meeting interface. The main content is a slide titled "Introduction" with the following bullet points:

- Why do we need Pentesting?
- Why Python is used for Pentesting?
- Difference between Bugs, Vulnerability, Exploits and threats ?

The bottom screenshot shows a terminal window running a Python script named "hidden_directories.py". The output of the script is as follows:

```
python3 hidden_directories.py
[*] Enter Target URL: 192.168.164.132/mutillidae
[*] Enter Name Of The File Containing Directories: common.txt
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/classes
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/credits
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/documentation
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/favicon.ico
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/footer
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/header
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/home
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/images
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/inc
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/includes
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/index
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/index.php
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/installation
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/javascript
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/login
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/notes
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/page-not-found
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/password
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/phpinfo
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/phpinfo.php
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/phpMyAdmin
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/register
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/robots.txt
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/robots.txt
[*] Discovered Directory At This Path: 192.168.164.132/mutillidae/styles
```