



IEEE

Silver Oak University
IEEE Student Branch



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UNIVERSITY**
EDUCATION TO INNOVATION



इक्ष्वाकु
In Pursuit of Wisdom

A REPORT ON Cyber Security and Digital Forensics

Date: 2nd to 3rd Nov, 2020

Platform: Cisco Webex Meetings

GUJCOST, DST, Govt. of Gujarat Sponsored

Two Days National Level Webinar on

Cyber Security & Digital Forensics

2nd to 3rd November, 2020

Introduction

Department of Computer Science and Engineering, SOCET, Silver Oak University, in association with **SOU IEEE SB** is organizing a two-day webinar on **"Cyber Security and Digital Forensics"** sponsored by GUJCOST, DST, Government of Gujarat during **2nd November, 2020 to 3rd November, 2020**.

The rapid and dramatic advances in information technology in recent years have without question generated tremendous benefits. However, they have created significant and unprecedented risks to operations. Computer Security has, in turn, become much more important to all levels of an organization to utilize information systems security measures to avoid data tampering, fraud, disruptions in critical operations, and inappropriate disclosure of sensitive information. This webinar is specifically designed to provide the right knowledge to the aspiring Hacking and Cyber Security enthusiasts. This programme will explore the various means that an intruder has, to gain access to computer resources.

Course Contents

- Cyber Ethics
- Information Gathering & Scanning
- Google Dorks
- System Hacking & Security
- Web Application Hacking & Security
- Investigation Methodologies

About the Session

Day 1

Date: 2nd November, 2020

Time: 10:30 AM to 3:15 PM IST

The first day of webinar on Cyber security and Digital forensics started with a warm welcome to participants and our speaker. For conducting this webinar our first speaker was from Techdefence labs, Mr. Omkar Gaikwad who is the Senior Security Analyst and Lead Auditor of Techdefence labs. He has also conducted 50+ workshops. He started his session by explaining what is hacking and types of hacking. He then shared some real-life examples of cyber frauds and even taught ways to tackle them. Next topic was regarding information and the backend mechanism of online financial frauds on various net banking platforms. For the same, he demonstrated a few case studies explaining how it should have been prevented. Lastly, he briefed some concepts of cyber hacking such as phishing, malwares, ransomware, keylogger, etc. He concluded his session by engaging participants in a small fun quiz on topics which he explained in his session and having a question and answer session with participants.

The next session of the webinar on Cyber Security and Digital Forensics was conducted by Mr. Kalpesh Jha, who is a security analyst at Techdefence labs. His session mainly revolved around the concepts of Database and web applications with respect to fundamentals of Network security. He also explained about websites and web applications in terms of IT security. Then he untangled the concept of web application, its architecture and its various types. His next topic was databases, for which he briefed about various well-known databases and some approaches through which hackers bypass authentication processes of databases in various web applications or websites. Moving on, he explained some concepts of cyber security such as vulnerability, its types and various exploitation testing processes. He also included injection techniques and its types by demonstrating live examples. The first day was concluded by a Q and A session with the participants.

The next session was conducted by Mr. Rizwan Shaikh who is a prominent Information Security Researcher and Cyber Crime Consultant with more than 7 years of experience in the meadow of Ethical Hacking, Information Security and Cyber Law. He has trained more than 20,000 individuals in Colleges, Corporates and Government Departments. He is an expert with great knowledge on cryptocurrency. In order to share his vast pool of knowledge in the domain of cryptocurrency, he explained what is cryptocurrency and its worldwide usage. He further shared information regarding various concepts of cryptocurrency like mining, traders, exchangers and many such. Finally, he concluded his session by a question and answer session with participants.

Day 2

Date: 3rd November, 2020

Time: 10:30 AM to 3:15 PM IST

The session began with a speech given by one of our IEEE members by welcoming the speakers and the participants on the second day of Cyber security and Digital Forensics. Mr. Sunny Vaghela, the Founder & CEO of Techdefence Labs was invited to take the first session today. He gave a brief introduction to System/network hacking in the beginning. Moving on, he explained phases of hacking which are information gathering, enumeration and scanning, gaining access, maintaining access, clearing tracks. Moving on, he gave a live demo of hacking using metasploit and did a hands-on activity with the participants. He expounded the important terms of metasploit such as vulnerability, exploit, payload, module, shellcode, etc. At the end, he kept a doubt session and cleared the doubts of the participants.

The next phase was anchored by Mr. Yashpal Sisodiya who is a Security Analyst at Techdefence Labs. He started with explaining some basic penetration testing softwares with their pros and cons. Then he switched to Burp Suite, which is one of the most popular penetration testing and vulnerability finder tools, and is often used for checking web application security. He explained the basic interface of Burp Suite and went ahead with a detailed hands-on session on network and web application security testing using dummy websites. At last, he resolved queries of participants and interacted with them.

Conclusion

The session gave a great insight of Cyber Security and Digital Forensics to more than 50 participants. All the speakers, with great effort, conducted the session very smoothly and excellently and conveyed their valuable knowledge. The event was concluded by expressing gratitude towards all the enthusiastic participants, prominent and distinguished speakers and the immense contribution and support of Management of Silver Oak University, Provost, Dr. Saurin Shah sir, our Head of Computer Science and Engineering Department and Faculty Branch Counsellor, Dr. Satvik Khara sir, our Faculty coordinators and the entire organizing team. This webinar was organised by Department of Computer Engineering, SOCET, Silver Oak University in association with Silver Oak University IEEE Student branch and sponsored by GUJCOST, DST and Government of Gujarat.

Some feedbacks after the event

- Very much helpful for those who thinking of starting a career in the field of Cyber security.
- Very prominent and knowledgeable speakers were present in both days. Very good webinar.
- Great session! Got many new things to learn. Thank you, Looking Forward to seeing more such sessions.
- It was great to be here in this event and I enjoyed and learned a lot. Hope to learn many more things from these kind of webinars from sou iee sb.
- The session was amazing and informative. Interested in many more events like this!

Some glimpse of the event



KJ
Kalpesh Jha

CE
Computer Engineerin

VP
Viren Patel

WT
Webinar Organizing

Database Basics

Where you see the facilities, we see the flaws!

- Database is a collection of data in an organized manner.
- Database consists of Tables. Each table consists of columns and rows.
- Each column is a field in database. Each row represents one record. When we say how many records we have, we are referring to the number of rows.

	A	B	C	D	E
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

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Yashpashh Sisodiya

Viren Patel

Webinar Organizing Team

Viewing Yashpashh Sisodiya...
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Target
Proxy
Spider
Scanner
Introducer
Repeater
Sequencer
Decoder
Companion

Intercept
HTTP history
WebSockets history
Options

Proxy Listeners

Burp Proxy uses listeners to receive incoming HTTP

Running	Interface
<input checked="" type="checkbox"/>	127.0.0.1:8080

Each installation of Burp generates its own CA certificate

Import / export CA certificate Regenerate

Add a new proxy listener

These settings control how Burp binds the proxy listener.

Bind to port:

Bind to address: ☒ Loopback only
☐ All interfaces
☐ Specific address:

OK Cancel

Intercept Client Requests

Use these settings to control which requests are stati

☒ Intercept requests based on the following rules:

Enabled	Operator	Match
<input checked="" type="checkbox"/>	File	Contains parameters
<input type="checkbox"/>	Or	Request
<input type="checkbox"/>	Or	HTTP method Does not match (get/post)
<input type="checkbox"/>	And	URL Is in target scope

Type here to search
Unmute
Start video
Share
Participants
Chat

