SRI VENKATESWARA COLLEGE OF ENGINEERING

An Autonomous Institution-Affiliated to Anna University
Pennalur, Sriperumbudur 602 117

Reflection Report

for

Two-Day Hands-on Workshop

On

"Ethical Hacking"

8th and 9th February 2020

Organized by

1. Mr. K. Kumanan
2. Mr. C S Sanoj
3. Mr. B. Praveen Kumar

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Forwarded to Principal.

13/2/2020

Mr. K. Kumanan
CO - ORDINATOR.

To: HOD. CSE
Nded
26
14/2

Two- Day Hands-on Workshop on "Ethical Hacking"

(Feb 08th – 09th, 2020)

Members of Organizing Committee

Convener

- Dr. R. Anitha, Professor & Head / CSE

Co-ordinators

- Mr. K. Kumanan, AP / CSE
- Mr. C.S. Sanoj, AP / CSE
- Mr. B. Praveen Kumar, AP/CSE

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Two-Day Hands-on "Ethical Hacking"

(Feb 08th -09th,2020)

Members of Organizing Committee

Convener

- **Dr.R.Anitha,** *Professor & Head /CSE*

Co-ordinators

- **Mr.K.Kumanan,** *AP/CSE*
- **Mr.C.S.Sanoj,** *AP/CSE*
- **Mr.B.Praveen Kumar,** *AP/CSE*

INTRODUCTION

What is cyber security? Why is it so important at this point of time? Awareness amongst the general public?

Which sectors are commonly and majorly affected?

Confidentiality, Integrity and Availability (CIA).

Confidentiality:
Touch base on encryption, access control(system related), authentication, authorization

Integrity:
Inegrity checks like checksum, backups etc

Availability:
fallbacks, failsafes etc

Attacks: Web and system based

Web:
1. Injection attacks: SQL, XML, Code
2. Session hijacking: CSRF
3. Phishing
4. Brute Force
5. DoS
6. Dictionary based: common user/password list bruteforcing
7. File Inclusion
8. MiTM

System:
1. Virus
2. Trojans
3. Backdoors
4. Bots

Secure Network Architecture:

How must a good architecture look like?

Explain what switches are. What is VLAN, subnetting, ACL lists, usage of common ports and services running in it, firewalls, WAFs, IDS/IPS

Cyber Security tools:

1. Firewalls
2. Anti virus
3. Detection and response systems: Security Information and Event Management (SIEM), Security Operations Centre (SOC)
4. Penetration Testing: WAPT, Network PT, Red Teaming, Blue Teaming

HacktheBox invite challenge

What is OWASP?

Top 10

HTTP basics, requests, response and its codes, methods

Burp Suite - The swiss army knife of WAPT

A quick go through of all the tabs

Stages of Pentesting:(applies to both WAPT and Network PT)

1. Enumeration/Reconnaissance
2. Vulnerability Identification
3. Exploitation
4. Post Exploitation and Privilege Escalation
5. Reporting

How to configure burp and capture requests?

Examples of OWASP 10 but can be grasped only by practice

Bug Bounty

Hackerone, Bugcrowd etc

PROs and CONs

Network Pentesting

Hackthebox - website structure and how to use it?

Solve Openadmin and parallely explin this.

Brief about Nmap and its flags, dirb and alternatives, robots.txt, hunt for potential system info leaks, wappalyzer etc

Research about the services running from the nmap output and search for vulnerabilities/exploits

Metasploit

Getting initial foothold, traversing the server for potential misconfigurations, permissions etc

SSH

What is a reverse shell?

Remote file transfer: wget, curl, simple HTTP Server

LinEnum/LinPeas

Getting root and submitting flags

A little bit about AD

End the session with the below

What's next while going forward?

Certification Tracks

CEH - for absolute newbies - HR loves it

OSCP - worth but expensive

CRTP - Windows/AD, Powershell scripting knowledge required

But where to learn????

Google, Pentesterlab, HTB VIP, Pentesteracademy, Hackerone hacktivity, Infosec twitter

There are tons of resources but self research and a goal is necessary.

From

05.02.2020

The Coordinators,

Department of Computer Science and Engineering,

Sri Venkateswara College of Engineering,

Sriperumbudur - 602105.

To

The Principal,

Sri Venkateswara college of Engineering,

Sriperumbudur – 601205.

To: HoD-CSE
Approved
26
8/2.

Through The HoD/CSE, SVCE.

Respected Sir,

Sub: Permission for conducting Two day Hands-on workshop on "Ethical Hacking" - Reg.

The Department of Computer Science and Engineering is to conduct a Two day Hands-on workshop on **"Ethical Hacking"** on 8th and 9th February 2020. In this connection, we request you to kindly permit us to conduct the workshop in the department laboratory (CS – Lab 4). Please do the needful.

Thanking you, Sir

Forwarded to Principal:
Dear Sir,
        I hereby request
you to kindly grant us
permission to conduct the
same in our dept. The Second day
Session will be Conducted online
and Assignments will be given to participants.
            kindly approve the same.

Yours faithfully,

Mr. K. Kumanan AP/CSE

Mr. C.S. Sanoj AP/CSE

Mr.B. Praveen Kumar AP/CSE

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Solicit your esteemed presence for the

Two Day Industry Based Hands-on Workshop

On

"Ethical Hacking"

By

Mr. K. Sudharshan, Cyber security Consultant,
Deloitte, Mumbai.

Coordinators

Venue: CSLAB 4

Date: 8th & 9th February 2020

Time: 09:00 AM – 03:15 PM

Mr . K. Kumanan AP/CS

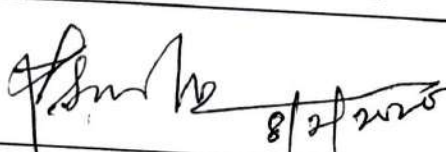Mr. C. S. Sanoj AP/CS

Mr. B. Praveen Kumar AP/CS

FEEDBACK

SRI VENKATESWARA COLLEGE OF ENGI[
Pennalur, Sriperumbudur – 602117
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

FEEDBACK FROM THE SPEAKER - GUEST LECTURE

DEPARTMENT CODE : CSE

DEPARTMENT : COMPUTER SCIENCE & ENGINEERING

Name of the Speaker	: Mr. Sudharsahan Krishnamurthy
Designation	: Cyber Security Consultant
Organization	: Deloitte,Mumbai.
Title of the Lecture	: Ethical Hacking (Kali)
Date	: 8th & 9th Feb-2020
Time	: 9:00 A.M. – 3.15 P.M.
Venue	: CS LAB4 – Cloud Computing Laboratory
Signature of the Speaker	: *[signature]* 8/2/2020
Comments	: The participants were Very Interactive Expecting these kind of Workshop more in near future.

Workshop on ETHICAL HACKING - 8ᵗʰ & 9ᵗʰ , 2020

ar Participant

Thank you for your enthusiastic participation in the "Workshop on **ETHICAL HACKING**". We uld like your valuable feedback to improve our future events.

Please fill up this feedback form and feel free to provide your suggestions for improvement.

Feedback by Participant

1. Rate the choice of experts and their lectures.
   ☑ Excellent ☐ Very good ☐ Good ☐ Fair

2. How far this course is useful in the preparation and development of software .

   ☑ Excellent ☐ Very good ☐ Good ☐ Fair

3. Refreshment facility
   ☐ Excellent ☐ Very good ☑ Good ☐ Fair

4. Hands on session
   ☑ Excellent ☐ Very good ☐ Good ☐ Fair

5. Your overall comment on the programme.
   ☐ Excellent ☑ Very good ☐ Good ☐ Fair

6. Your willingness to Participate in similar programme in future: Willing / Not-willing

7. Your valuable suggestions/comments : ⎯

Signature of the Participant

Name: SOWMYA NARAYANAN

P-CSC

College Address:
SG D GPI
SVC .

Designation: A.P.CS.

Email id: SOWMYANARAYANAN@ YAHOO.COM

Department: CSC

Department of Computer Science & Engineering

Sri Venkateswara College of Engineering

Workshop on ETHICAL HACKING - 8ᵗʰ & 9ᵗʰ , 2020

Dear Participant

Thank you for your enthusiastic participation in the "Workshop on **ETHICAL HACKING** would like your valuable feedback to improve our future events.

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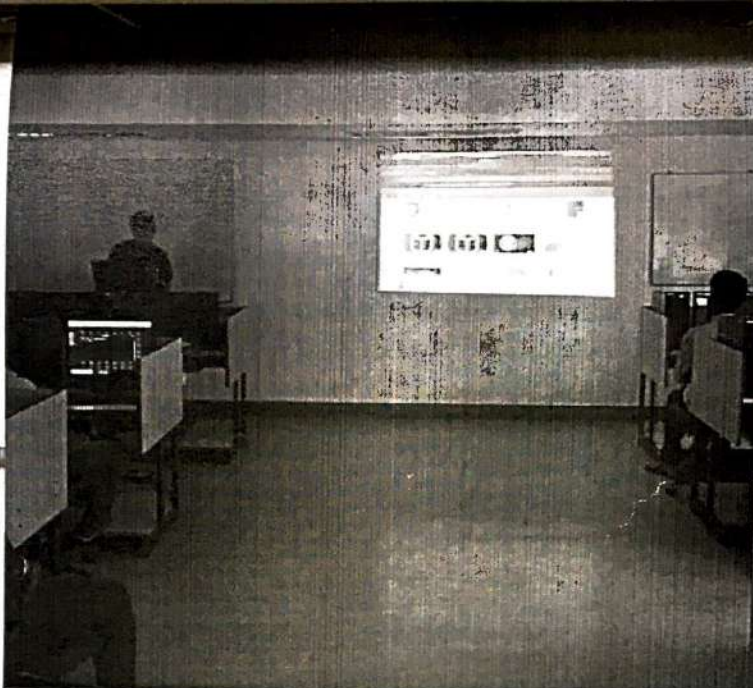Signature of the Partici

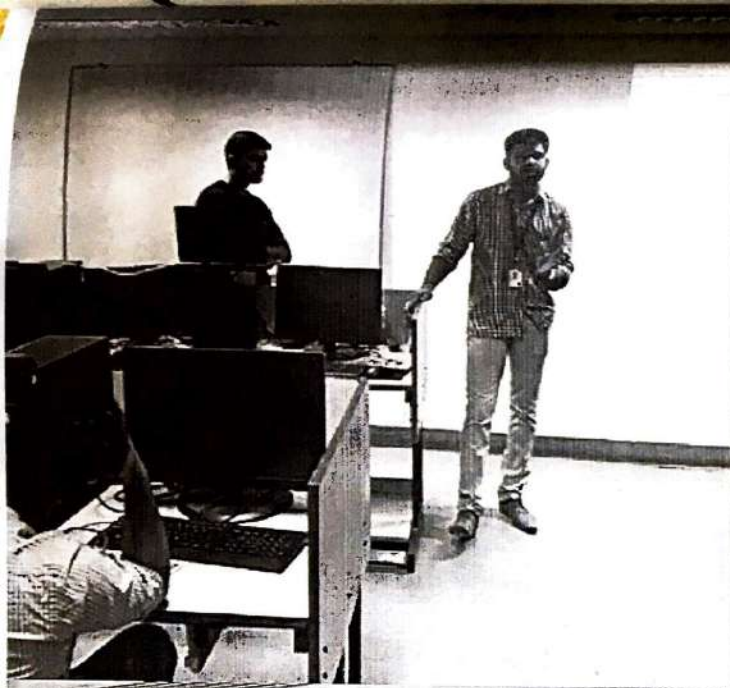Name: S. Sriram   Designation: IIIʳᵈ Yr CSE-'C' Department:

College Address: SVCE   Email id: Sriram.1999@gmail.com

EVENT PHOTOS

SRI VENKATESWARA COLLEGE OF ENGINEERING

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ISO 9001:2015
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MGMT. SYS.
RvA C 071

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Two-day Hands-on Workshop on

"Ethical Hacking"

Certificate of Appreciation

This Certificate has been awarded to Dr/ Mr / Ms. ....

of Sri Venkateswara College of Engineering, Sriperumbudur for organizing the *Two-Day Hands-on Workshop on "Ethical Hacking"* held on 8th & 9th February 2020, in the Department of Computer Science and Engineering, Sri Venkateswara College of Engineering.

Dr. R. Anitha
HoD-CSE

Dr. S. Ganesh Vaidyanathan
PRINCIPAL

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Co-ordinator

Dr. R. Anitha
HoD - CSE

Dr. S. Ganesh Vaidyanathan
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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Certificate of Appreciation

This Certificate has been awarded to Mr. ....

in recognition for acting as a resource person for the *Two-Day Hands-on Workshop on*

"Ethical Hacking" held on 8th & 9th February 2020, in the Department of Computer Science

and Engineering, Sri Venkateswara College of Engineering,Sriperumbudur.

Dr. R. Anitha
HoD-CSE

Dr. S. Ganesh Vaidyanathan
PRINCIPAL