

EVALUATION OF INTERNSHIP REPORTB.Tech: III Year

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Year 2022-23

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Certificate

Certified that training work entitled "Cyber Security" is a bonafied work carried out after fourth semester by "Gitika Chouksey" in partial fulfilment for the award of the degree of Bachelor of Technology in Computer Science and Information Technology from "Mr. Yash Arya" Acropolis Institute of Technology and Research during the academic year 2022-23.

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ACKNOWLEDGEMENT

I would like to acknowledge the contributions of the following people without whose help and guidance this report would not have been completed. I acknowledge the counsel and support of our training coordinator, *Prof. Nidhi Nigam (Assistant Prof.*, CSIT Department), with respect and gratitude, whose expertise, guidance, support, encouragement, and enthusiasm has made this report possible. Their feedback vastly improved the quality of this report and provided an enthralling experience. I am indeed proud and fortunate to be supported by him/her. I am also thankful to Dr. Shilpa Bhalerao, H.O.D of Computer Science Information Technology Department, for her constant encouragement, valuable suggestions and moral support and blessings. Although it is not possible to name individually, I shall ever remain indebted to the faculty members of CSIT Department, for their persistent support and cooperation extended during this work.

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INTRODUCTION

Cyber Security is a process that's designed to protect networks and devices from external threats. Businesses typically employ <u>Cyber Security professionals</u> to protect their confidential information, maintain employee productivity, and enhance customer confidence in products and services.

The world of Cyber Security revolves around the industry standard of confidentiality, integrity, and availability, or <u>CIA</u>. Privacy means data can be accessed only by authorized parties; integrity means information can be added, altered, or removed only by authorized users; and availability means systems, functions, and data must be available on-demand according to agreed-upon parameters.

The main element of Cyber Security is the use of authentication mechanisms. For example, a user name identifies an account that a user wants to access, while a password is a mechanism that proves the user is who he claims to be.

Cyber security is not only essential to business organizations and governmental institutions. It should be for everyone who is using digital devices like computers, mobile phones, tablets, etc. These devices contain many personal pieces of information that digital thieves would love to have. What is also important about it is that if your information is exposed to hackers, they can use you as a bait to lure your friends or family into a digital scam.

Every little thing that is connected to the internet, used for communication and other purposes, can be affected by a breach of security.

OBJECTIVES

- 1. To prepare students with the technical knowledge and skills needed to protect and defend computer systems and networks.
- 2. To prepare students that can plan, implement, and monitor cyber security mechanisms to help ensure the protection of information technology assets.
- 3. To prepare students that can identify, analyze, and remediate computer security breaches.

PROJECT DETAIL

NETWORK COMMAND

C:/>ipconfig

Displays all current TCP/IP network configuration values. Displays Internet Protocol version 4(IPv4) and IPv6 addresses, subnet mask and default gateway for all adapters.

C:/> Ipconfig/all

Displays full TCP/IP configuration for all adapters.

Adapters can represent physical interfaces, such as installed network adapters or logical interfaces, such as dial-up connections.

```
::\Users\it's me>ipconfig/all
Windows IP Configuration
  Host Name . . . . . . . . . . : DESKTOP-41SGF80
  Primary Dns Suffix . . . . . . :
  Node Type . . . . . . . . . . . . . . . . . Hybrid
  IP Routing Enabled. . . . . . : No
  WINS Proxy Enabled. . . . . . : No
Ethernet adapter Ethernet 2:
  Media State . . . . . . . . . . . . Media disconnected
  Connection-specific DNS Suffix .:
  Description . . . . . . . . . . . Realtek PCIe GbE Family Controller #2
  Physical Address. . . . . . . . . . D4-3D-7E-64-88-CD
  DHCP Enabled. . . . . . . . . : Yes
  Autoconfiguration Enabled . . . . : Yes
Ethernet adapter Ethernet 5:
  Connection-specific DNS Suffix .:
  Description . . . . . . . . . . . SAMSUNG Mobile USB Remote NDIS Network Device #3
  Physical Address. . . . . . . . . 9A-51-51-0C-9C-56
  DHCP Enabled. . . . . . . . . . Yes
  Autoconfiguration Enabled . . . . : Yes
  Temporary IPv6 Address. . . . . : 2409:4043:4e1d:e79f:a914:9880:f050:9370(Preferred)
  Link-local IPv6 Address . . . . . : fe80::25f9:4fa:5878:4529%16(Preferred)
  IPv4 Address. . . . . . . . . . . . . . . 192.168.42.223(Preferred)
  Lease Obtained. . . . . . . . . Sunday, November 20, 2022 9:31:57 PM
  Lease Expires . . . . . . . . : Monday, November 21, 2022 7:46:53 PM
  Default Gateway . . . . . . . : fe80::c0e:40ff:fe53:bb0e%16
                                   192.168.42.129
  DHCP Server . . . . . . . . . : 192.168.42.129
  DHCPv6 IAID . . . . . . . . . . . . 477006551
  DHCPv6 Client DUID. . . . . . . : 00-01-00-01-25-7D-0A-30-10-78-D2-2F-A0-4A
  DNS Servers . . . . . . . . . . : 192.168.42.129
                                   2409:4043:4e1d:e79f::e4
  NetBIOS over Tcpip. . . . . . : Enabled
```

Tracert

The windows "tracert" command determines the route to destination by sending ICMP packets to the destination.

```
C:\Users\it's me>tracert google.com
Tracing route to google.com [2404:6800:4009:828::200e]
over a maximum of 30 hops:
 1
      <1 ms
                <1 ms
                         <1 ms 2409:4043:4e1d:e79f::d1
                                Request timed out.
      48 ms
                27 ms
                         37 ms
                               2405:200:385:eeee:20::36
 4
      39 ms
                29 ms
                         60 ms 2405:200:801:3800::e4
 5
                                Request timed out.
                          *
 6
                                Request timed out.
                                Request timed out.
 8
                                Request timed out.
 9
                         45 ms 2001:4860:0:1::17d0
      53 ms
                38 ms
10
      41 ms
               38 ms
                         47 ms 2001:4860:0:1::2b6b
11
      57 ms
               36 ms
                         39 ms bom12s15-in-x0e.1e100.net [2404:6800:4009:828::200e]
Trace complete.
::\Users\it's me>
```

CERTIFICATE



GITHUB LINK

https://github.com/Gitika2003/cyber_ppt.git

CONCLUSION

Data plays an integral role in the commission of many cybercrimes and vulnerabilities to cybercrime. Even though data provides users of it (individuals, private companies, organizations, and governments) with innumerable opportunities, these benefits can be (and have been) exploited by some for criminal purposes. Specifically, data collection, storage, analysis, and sharing both enables many cybercrimes and the vast collection, storage, use, and distribution of data without users' informed consent and choice and necessary legal and security protections. What is more, data aggregation, analysis, and transfer occur at scales that governments and organizations are unprepared for, creating a slew of cybersecurity risks. Privacy, data protection, and security of systems, networks, and data are interdependent. In view of that, to protect against cybercrime, security measures are needed that are designed to protect data and user's privacy.

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