TWO WEEKS SUMMER INTERSHIP CAMP ON CYBER SECURITY AND ETHICAL HACKING

Event No	CS031
Organizing Department	Computer Science and Engineering
Date	16/06/2023 to 29/06/2023 (14 Days)
Time	09:00 AM to 04:00 AM
Event Type	VAC / Training Program
Event Level	Dept. Level
Venue	GV Lab
Total Participants	18
Students - Internal	18

Related SDG

Resource Persons

Sl	Type	Name	Designation	Company	Email	Phone
1	Resource Person	Sankkaraj Subramanian	Founder and CEO	Prompt Infotech	Sankkarajsubramanian@gmail.com	xxxxxxxxxx

Involved Staffs

Sl	Name	Role
1	Saravanan M	Convenor
2	Primya T	Co-convenor

Outcome

Ø Student can able to understand the characteristics, advantages, and use cases for each type of network.
Ø Understand popular MAC protocols like Ethernet and Wi-Fi, as well as LLC protocols like HDLC (High-Level Data Link Control) and LLC2 (Logical Link Control Type 2).
Ø Learnt the process of data encapsulation and decapsulation as it moves through the network stack.
Ø Students understand the different types of firewalls, such as packet-filtering firewalls, stateful firewalls, and application-level gateways.
Ø Learnt how to choose the appropriate MAC protocols and network types for efficient and secure data transmission.
Ø Gain insights into optimizing network performance by understanding the impact of different protocols and network layers on data transmission speed, reliability, and efficiency.
Ø Overall provides with a comprehensive understanding of different network types, MAC and LLC protocols, and networking layers.

Event Summary

Ø Learnt how to navigate the user interface, access various networking devices, and utilize the features and functionalities provided by Cisco Packet Tracer.
Ø Gain experience in configuring network interfaces, assigning IP addresses, and establishing connectivity between nodes using different networking technologies and protocols.
Ø Understand the role of servers in providing centralized resources and services to client nodes.
Ø Learnt how to configure firewall rules and policies to control and monitor network traffic.
Ø Gain insights into designing networks that connect nodes efficiently and securely using the appropriate networking devices and technologies.
Ø Gain insights into diagnosing network problems, identifying misconfigurations, and implementing corrective actions. Gain hands-on experience in network modeling, configuration, and troubleshooting.
Learnt how to establish connectivity and communication between these networks, considering factors like network addressing, routing protocols, and network devices.
Gain practical experience in setting up servers, configuring client devices, and enabling communication between them using protocols such as HTTP, FTP, or DNS
Gain hands-on experience in configuring BGP routers, establishing BGP sessions, and implementing routing policies using Packet Tracer's

simulation environment.
Gain insights into identifying misconfigurations, analyzing network traffic, and implementing corrective actions to ensure smooth network operation.
Practical experience in configuring network devices and protocols to ensure efficient data transmission and optimal network performance.
Acquire practical skills in connecting diverse networks, implementing client-server communication, and configuring BGP.
Ø Understand the legal implications of activities in cyberspace and the responsibilities of individuals and organizations in maintaining cybersecurity.
Ø Gain insights into countermeasures that organizations can implement to protect against footprinting attacks.

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