

## **UNIT I**

### **INTRODUCTION TO CYBER ATTACKS**

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# Evolution of Cyber Attack

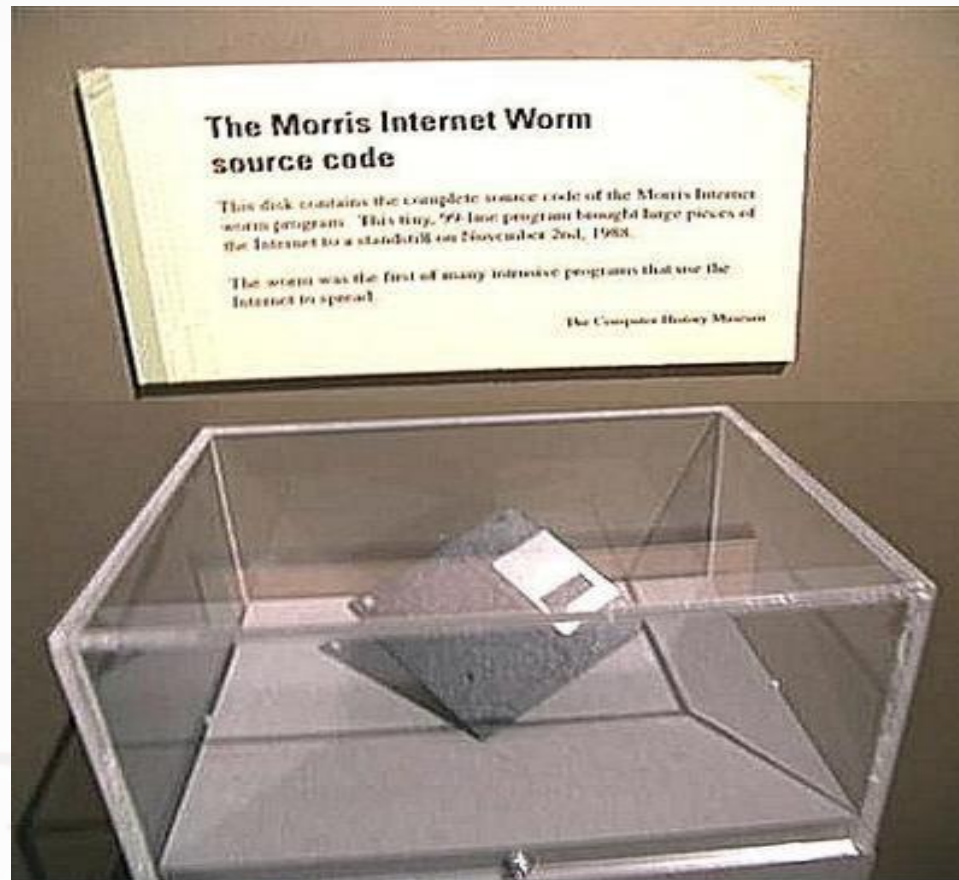
- As of October 2018, there are
  - 4.2 billion active Internet users worldwide and
  - 3.4 billion active social media users
- Most of the users rely on Internet technology for their day-to-day activities
- This has led to an increase in cybercrimes and cyber-attacks



# First- Major Cyber Attack

- The Morris worm (1988) is the first known major cyber-attack
- It was used as a weakness in the UNIX system and it replicated itself
- The worm was developed by Robert Tapan Morris
- He was the first person ever to be convicted under the US computer fraud and abuse act

# The Morris Internet Worm



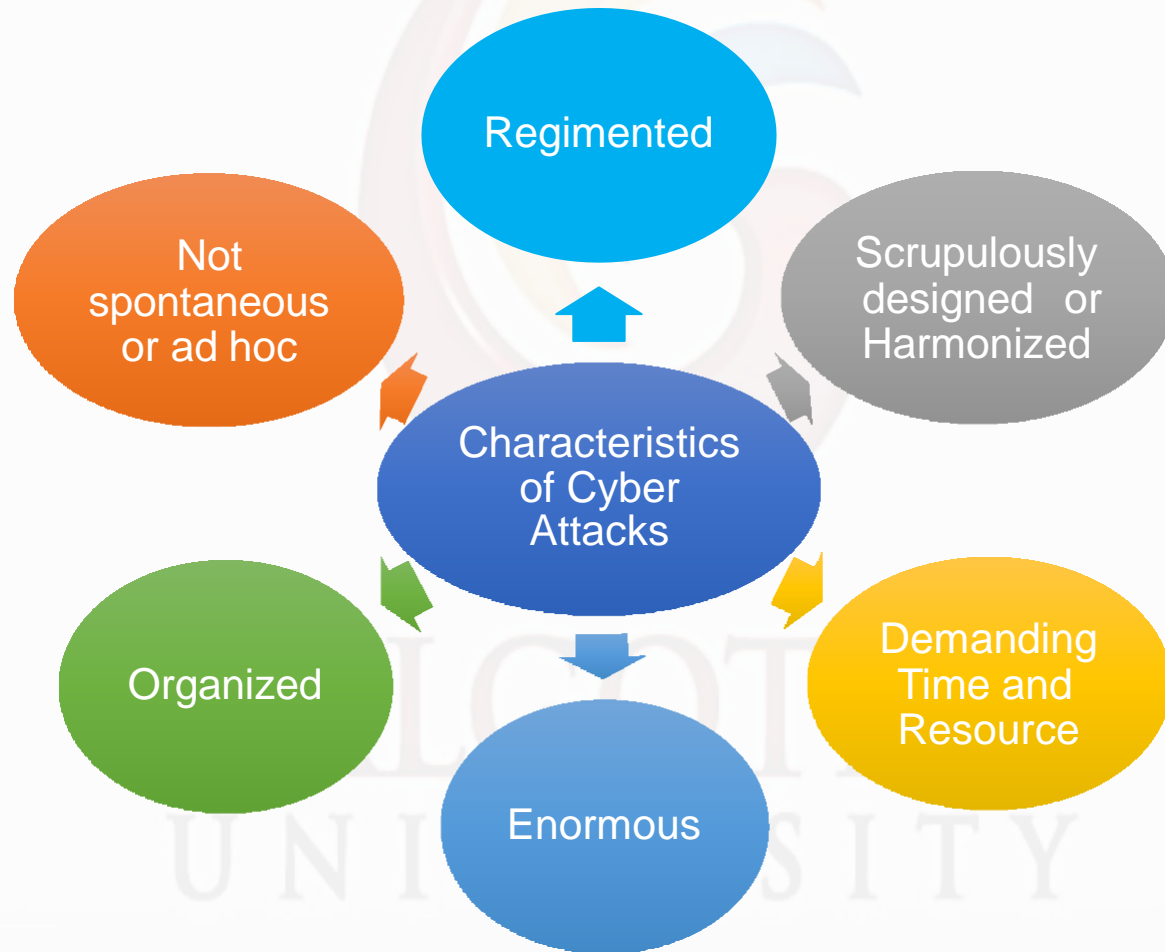
**Disk containing source code for Morris worm on display at Boston Museum of Science**

# Definition of Cyber Attack

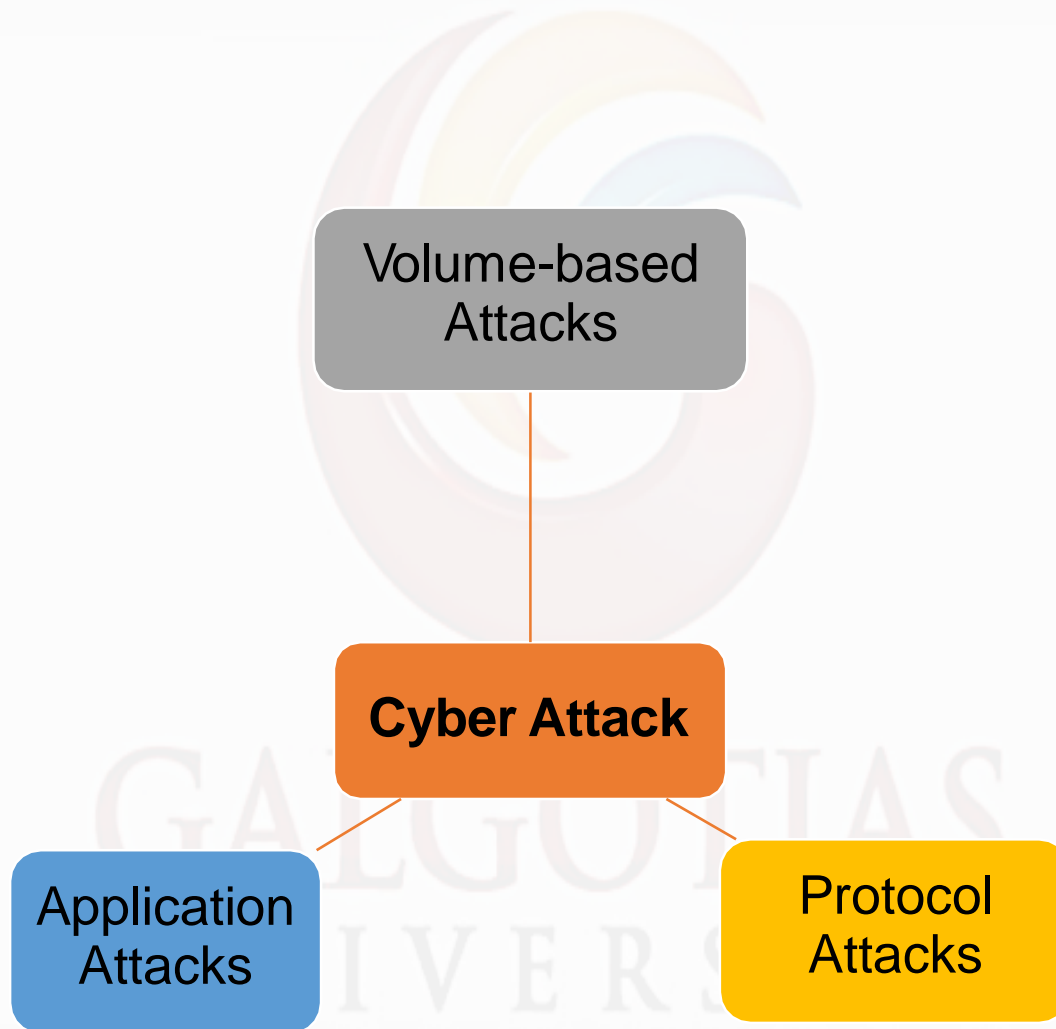
- It refers to compromise in the CIA of the resources or data stored in a Internet or Intranet connected computer
- Deliberate exploitation of computer system resources, networks and technology connected through WWW
- Compromises data by injecting malicious code into the actual code

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# Characteristics of Cyber Attacks



# Basic categories of Cyber Attack

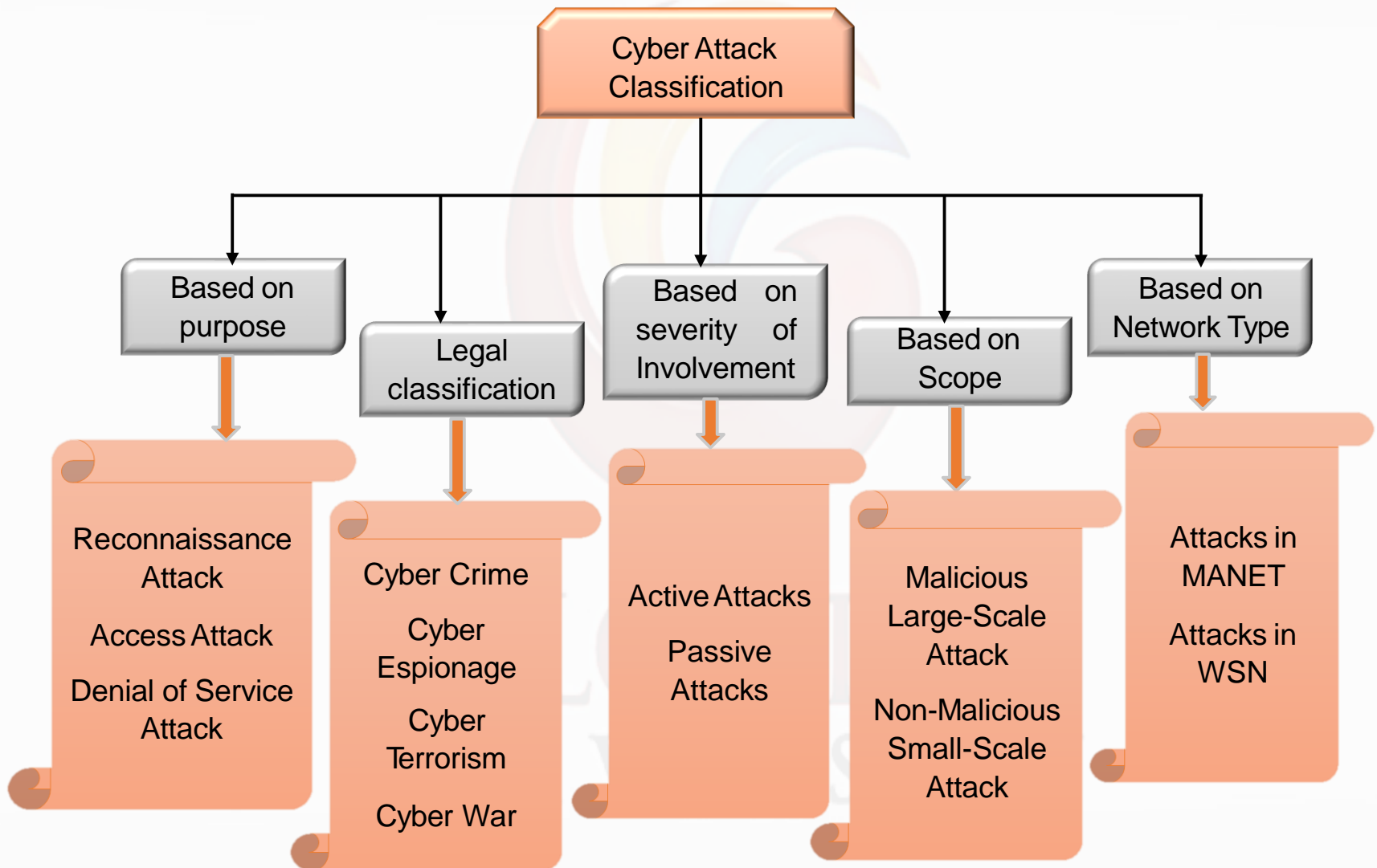


# Purpose and Motivation for Cyber Attacks

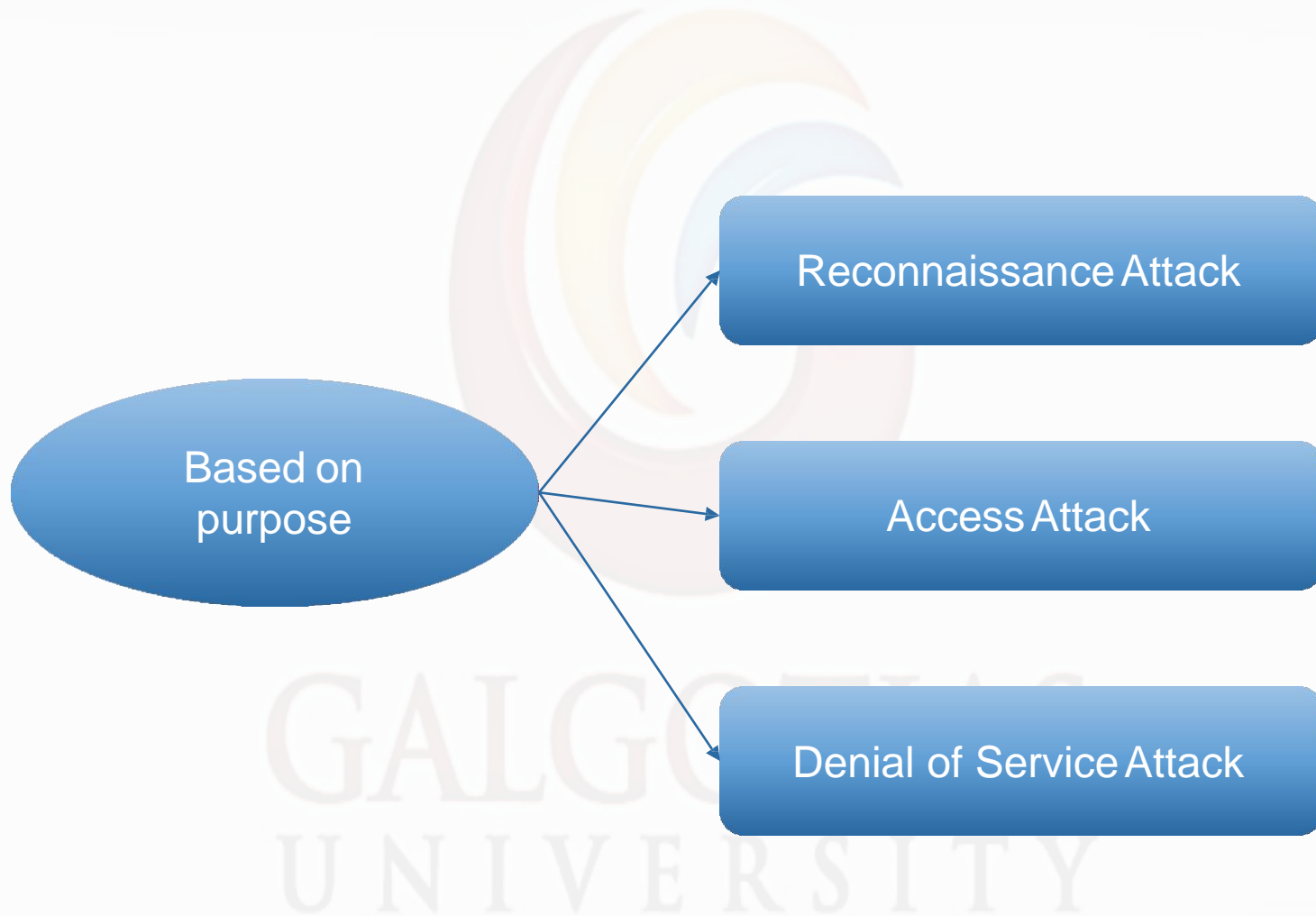
- Obstruction of Information
- Denigration in the Reputation of the country
- Denial in providing public services
- Smashing up legal Interest
- Counter International cyber security measures
- Retardation of decision-making process
- Abatement of public confidence



# Classification of Attacks

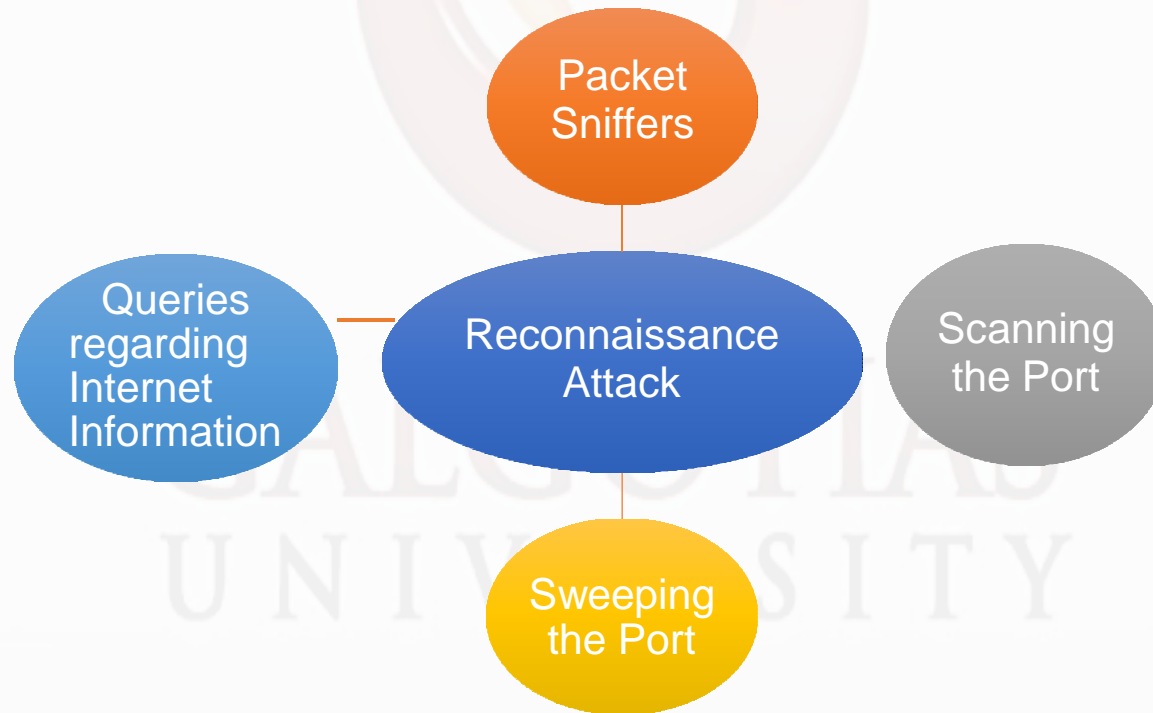


# Classification of Cyber Attack : Based on Purpose



# Reconnaissance Attack

- This attack is also called as System mapping, services and unauthorized detection
- Reconnaissance attacks takes place in any of the forms



## References

- Michael Gregg. 2008. Build Your Own Security Lab: A Field Guide for Network Testing. Wiley Publishing.
- Steven DeFino and Larry Greenblatt. 2012. Official Certified Ethical Hacker Review Guide: For Version 7.1 - EC-Council Certified Ethical Hacker (Ceh (1st. ed.)). Course Technology Press, Boston, MA, USA.
- David H. Ramirez-IPTV Security Protecting High-Value Digital Contents-Wiley(2008)

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Thank You