

# Cybersecurity Fundamentals

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~Jithin Netticadan  
*CEH v12 | CAP | Qualys*

# 5W1H of Security

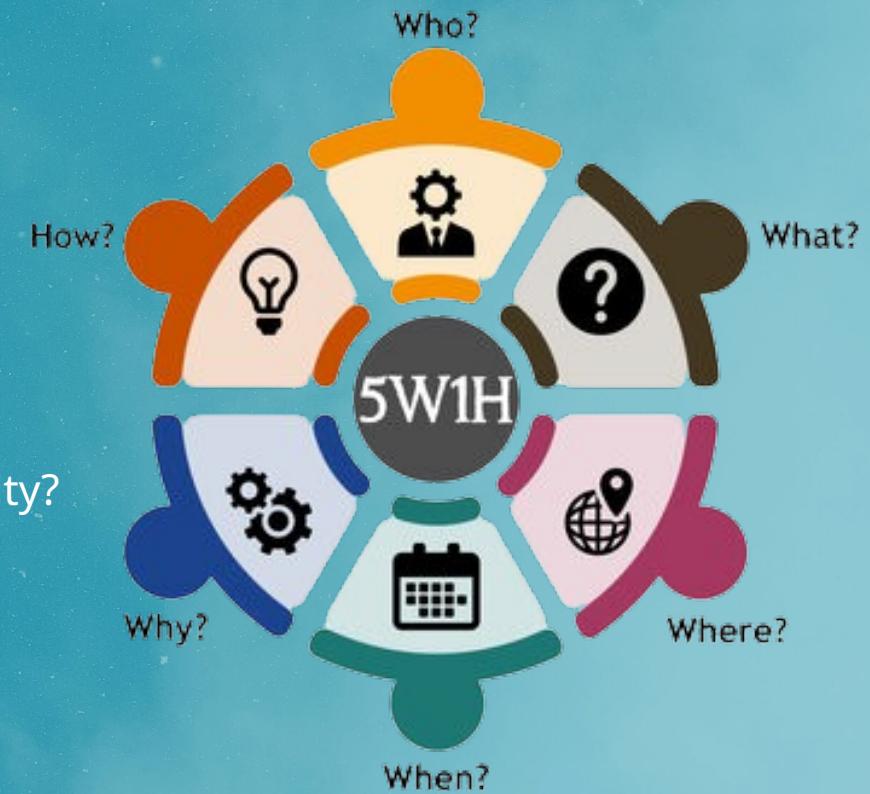
What is Information Security?

Why Do You Need Information Security?

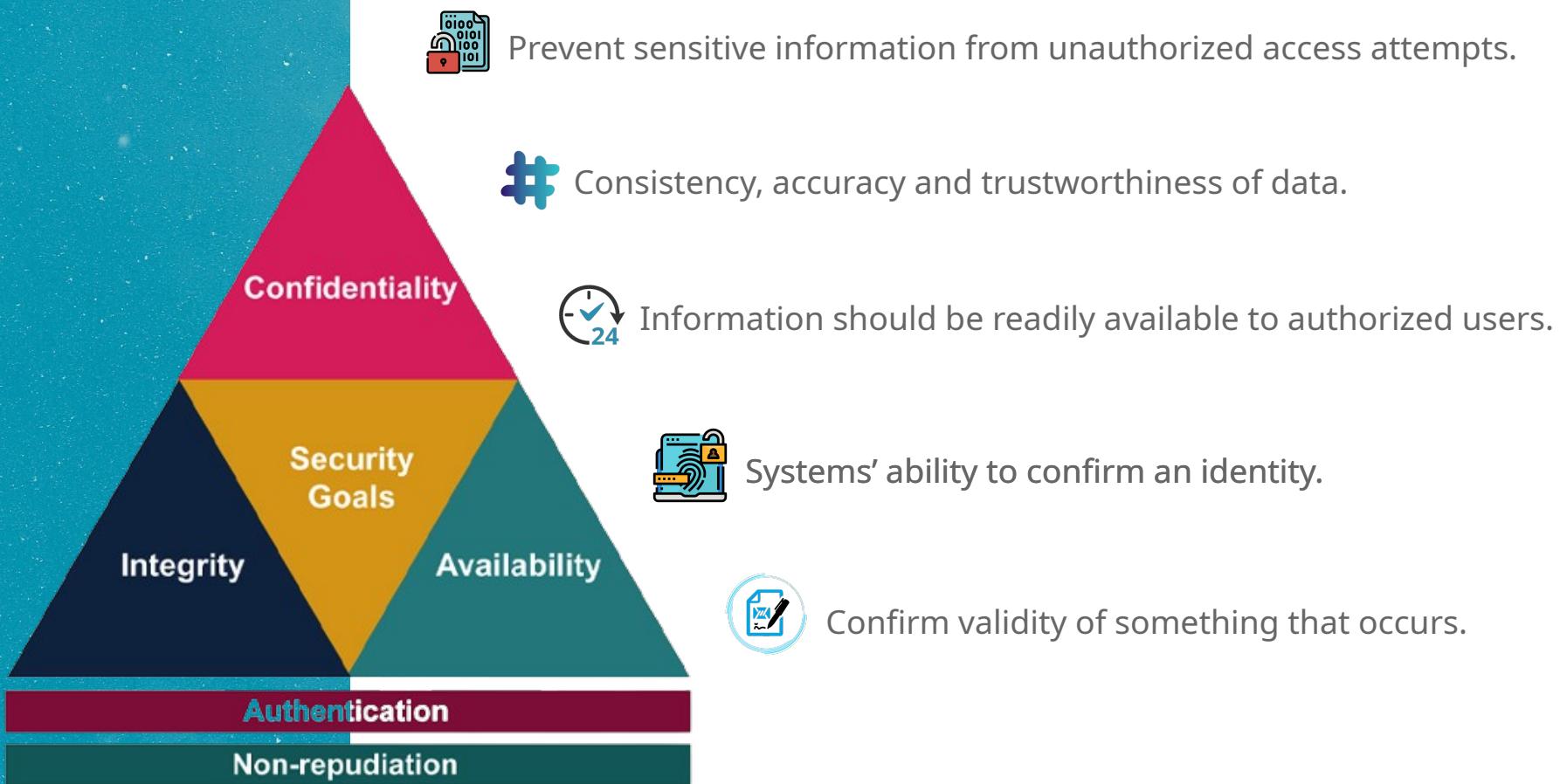
Who is responsible for information security?

When is the Right Time to Address Information Security?

Where Does Information Security Apply?



# Pillars of Cybersecurity



# Encrypt vs Hash vs Encode



Technique that makes your data unreadable and hard to decode for an unauthorized user.



One-way summary of data that cannot be reversed and is used to validate the integrity of data.



Reversible transformation of data format, used to preserve the usability of data.

# Type of Cyber Attacks

## Malware

Any type of malicious software designed to cause harm or damage to a computer, server, client or computer network and/or infrastructure without end-user knowledge.

## Phishing

Trick users into divulging sensitive data, downloading malware, and exposing themselves or their organizations to cybercrime.

## MitM

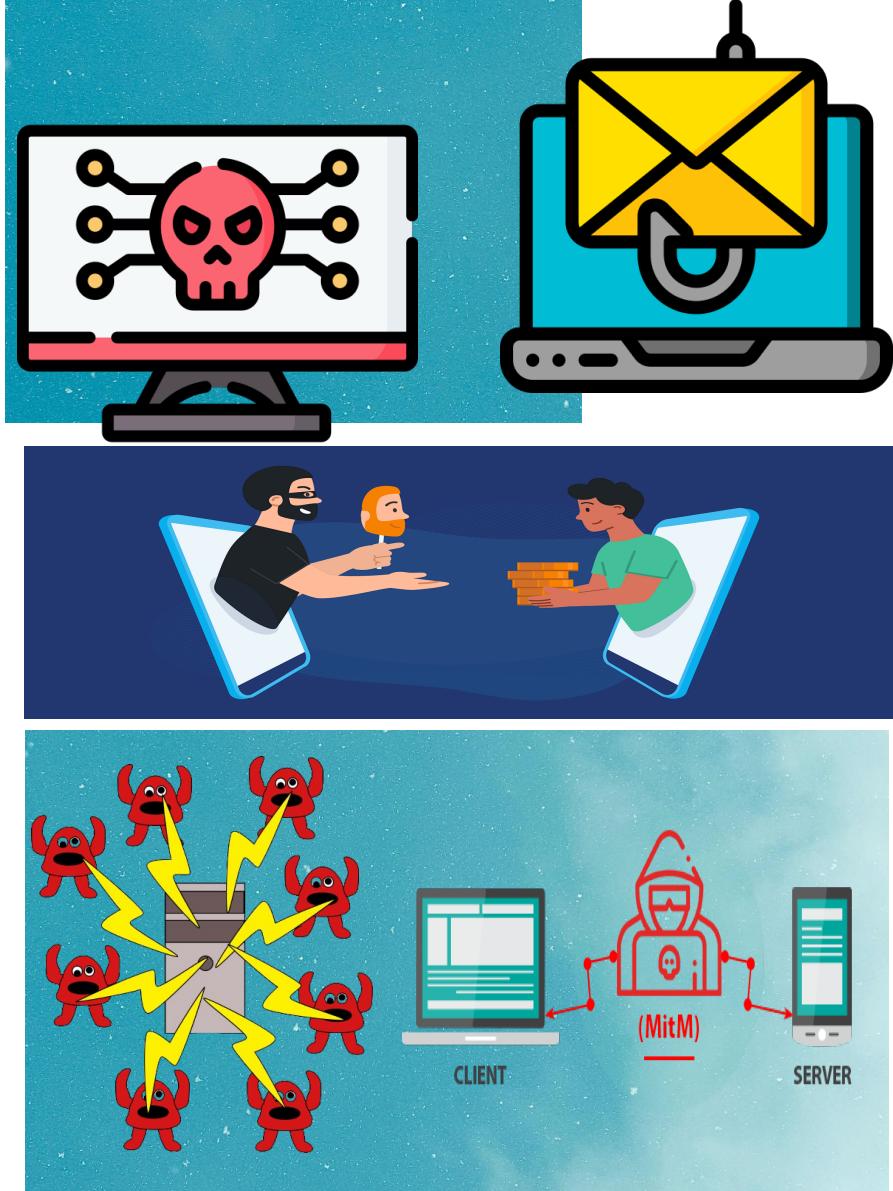
Allow attackers to eavesdrop on the communication between two targets.

## Social Engineering

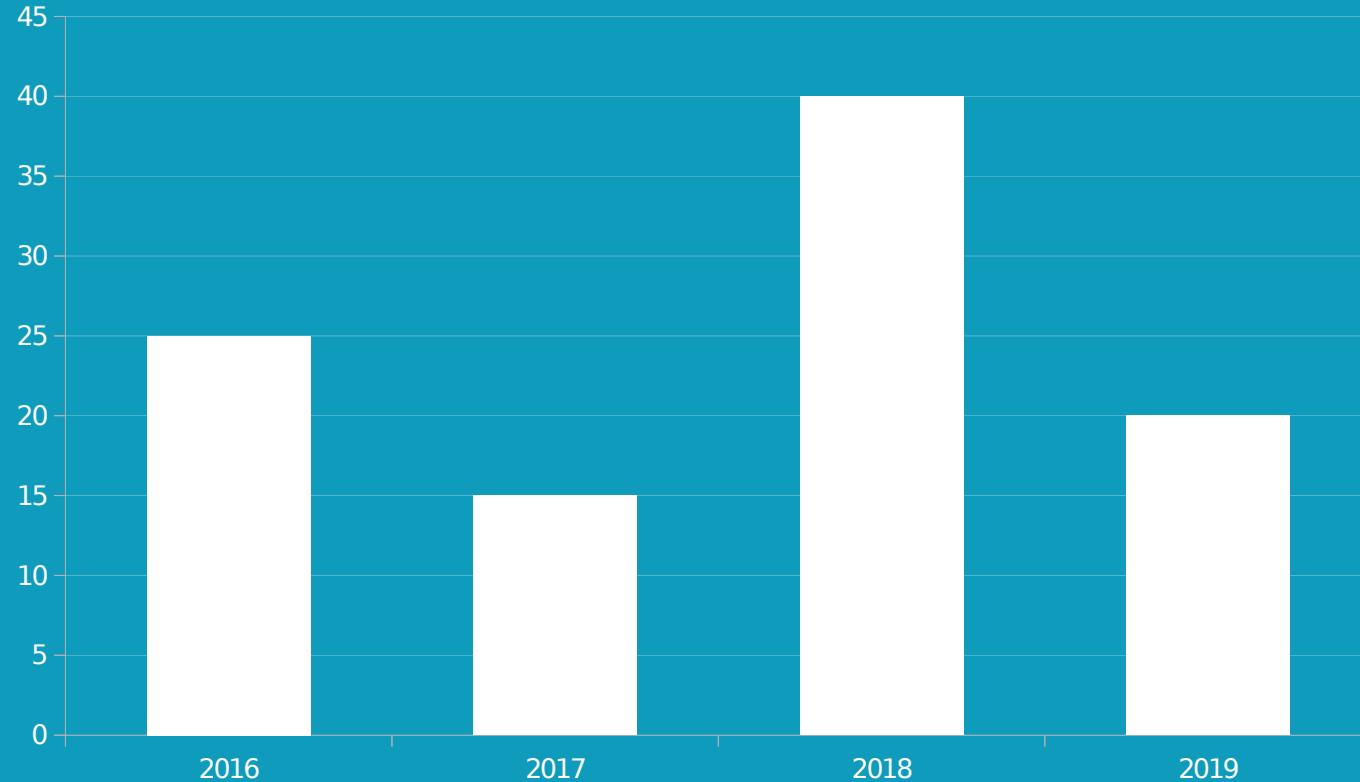
Set of tactics used to manipulate, influence, or deceive a victim into divulging sensitive information or performing ill-advised actions

## DoS/DDoS

Disrupt the normal traffic of a targeted server, service or network by overwhelming the target or its surrounding infrastructure with a flood of Internet traffic.



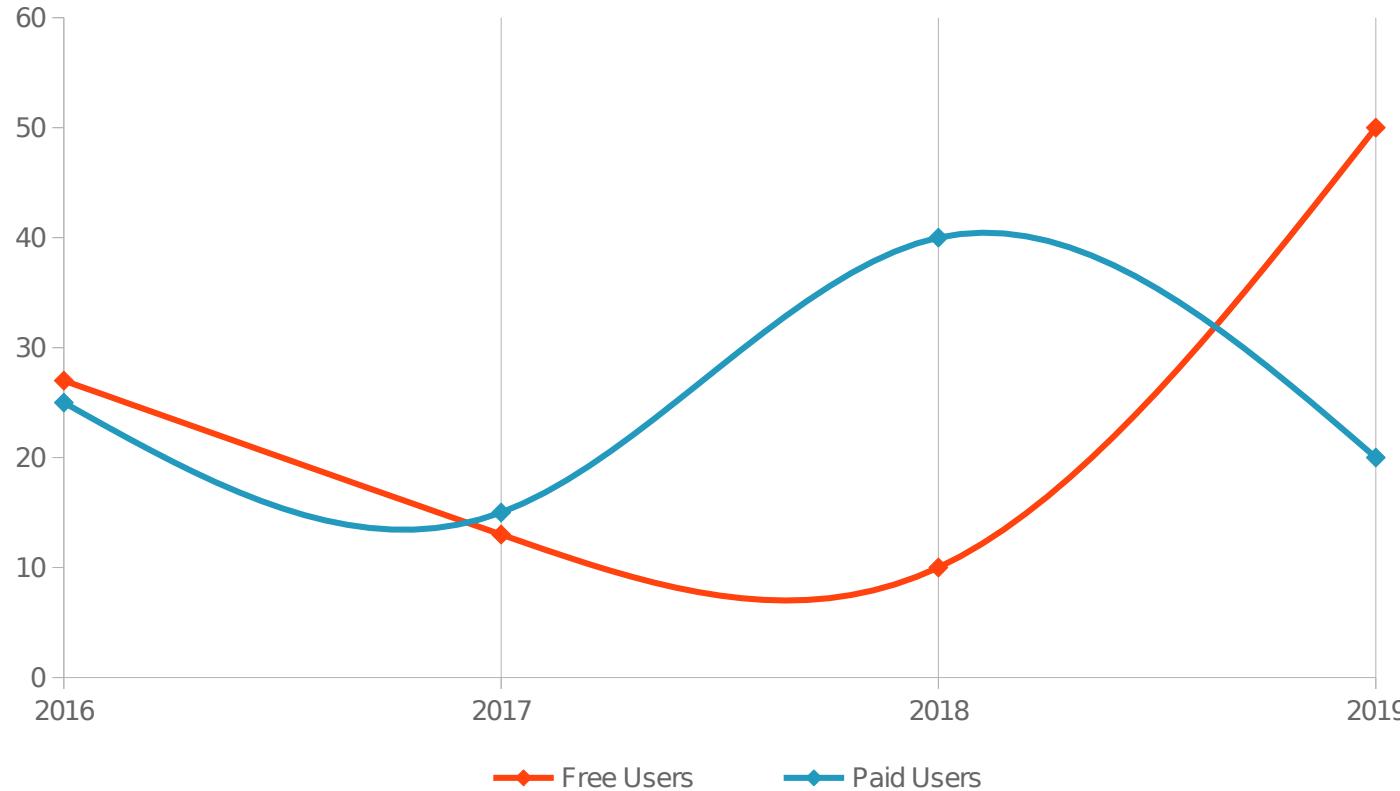
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# Thank you