



# ESOTERIC

## *THE IT CLUB*

(IN PURSUIT OF EXCELLENCE)



# *TECHRONICLES*

TC004

# CYBERSECURITY

The background features a complex digital aesthetic. In the top-left corner, there are several thin, overlapping lines in purple, orange, and blue, some forming step-like patterns. The top-right corner is filled with a grid of small blue dots. The bottom-left corner also contains a grid of blue dots. On the right side, there are more prominent lines in dark blue, purple, and orange, some of which are wavy or curved. A horizontal line with a small circle at its end extends from the left towards the center, positioned below the main text.



"Security isn't just a technology problem—it's a people problem."

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– **Bruce Schneier**



# The Rising Importance of Cybersecurity

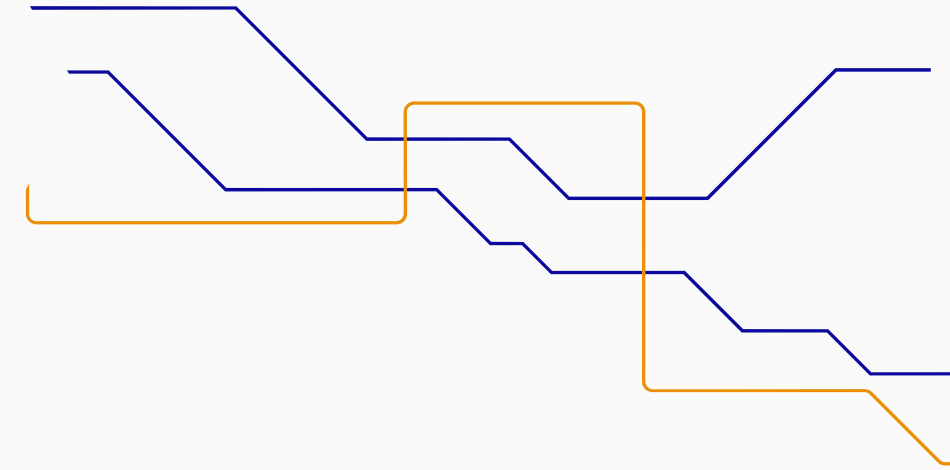
As technology advances, cyber threats continue to evolve, posing risks to individuals and organizations alike. Key cybersecurity concepts such as malware, phishing, firewalls, and encryption are essential to protecting personal data and enterprise systems. With the global cybersecurity market projected to reach \$377.5 billion by 2032, the demand for cybersecurity professionals and solutions is growing exponentially.

Additionally, the expansion of 5G networks introduces new security challenges. In India, two years post-launch, major providers such as Bharti Airtel and Reliance Jio face network congestion, impacting download speeds and security measures.

Understanding these developments is crucial for staying ahead in the cybersecurity field.



# TERMS OF THE WEEK



## 01 Malware

Malicious software designed to harm, exploit, or disable devices, networks, or users.

## 03 Firewall

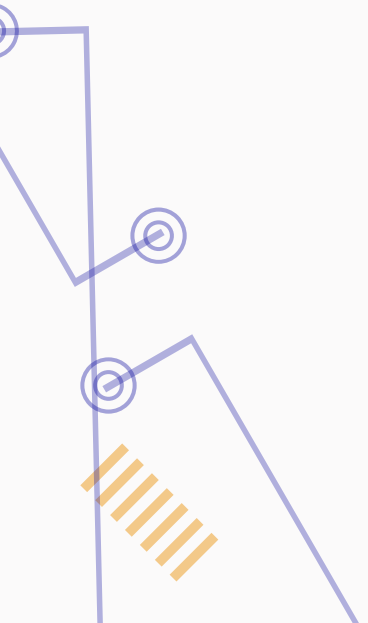
A security barrier that filters network traffic.

## 02 Phishing

A deceptive attack to steal sensitive information.

## 04 Encryption

A method to protect data by converting it into code.



# NEWSFLASH



## Cybersecurity Market Growth

The cybersecurity technology market is forecasted to reach a staggering \$377.5 billion globally by 2032, growing at a compound annual growth rate) of 9%.



## 5G Network Update

5G technology continues to expand, but not without challenges. In India, two years post-launch, network congestion has led to a decline in download speeds for major providers Bharti Airtel and Reliance Jio.



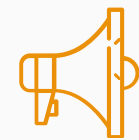
## Trending News

Cybersecurity market forecasted to grow to \$377.5 billion by 2032.



## New Tools and Frameworks

AI-driven security tools are gaining traction for advanced threat detection.



## Industry Insights

Growing demand for cybersecurity skills such as ethical hacking, penetration testing, and risk management.



## Startups and Innovations:

Indian cybersecurity startups are developing AI-powered security solutions for businesses.

# MAKE IT HAPPEN



**Understand the  
Basics of  
Cybersecurity**



**Choose Your  
Area of  
Interest**



**Learn the  
Tools**



**Take Free  
Online Courses**



**Work on Small  
Projects**



**Check Device  
Compatibility**





# Hands On Learning

## Cybrary

Introduction to IT and Cybersecurity – A free beginner-friendly course covering cybersecurity fundamentals.



## Coursera

Cybersecurity for Everyone – An introductory course by the University of Maryland.



## TryHackMe

Free Cybersecurity Labs – Hands-on virtual labs to practice security concepts.



## Google

Cybersecurity Awareness Training – Free training on online safety and security best practices



## Great Learning

Free IoT Course with Certificate for Beginners – Beginner-friendly IoT course with certification.



## IoT-Open

IOT-Open: IoT MOOC Courses – Free modules covering IoT programming, hardware, and networking.



# STUDENT CORNER

Tech Quiz: Test Your Cybersecurity Knowledge



## **ProProfs**

Cybersecurity Quiz  
Questions And  
Answers



## **Sanfoundry**

Cybersecurity Online  
Test | Quiz



## **Quizgecko**

Cybersecurity Basics  
Quiz

# Further Reading and Resources

## Security Now

Weekly podcast discussing  
cybersecurity trends



## Krebs on Security

Blog by security expert  
Brian Krebs



## Darknet Diaries

Podcast covering real-  
world cybercrime stories





# Presenters





# Thank You

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**Stay inspired stay connected**

Presenters and curators  
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Prathiksha P Rao

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