

Introduction to Data Security

What is Cyber Security?



Cyber Security is the field that deals with enacting counter measures against attacks, disruptions and thefts against and through technological systems, via the means of 'hacking'



Introduction to Data Security

What is Data Security?

The branch of Cyber Security that deals with the protection of data in specific is called **Data Security**



Introduction to Data Security

**What is covered
under
Data Security?**

Cloud Data Security



Data Encryption



Hardware Security



Password Management



Payment Security



Email and Messaging Security



Mobile App Security



Web Browser





Why do we need
Data Security?

Why do we need Data Security?

Google Data Leak

The Northern District of California granted preliminary approval of a **\$7.5 million settlement** of a consumer class action against Google LLC over data leaks caused by software bugs in its now-defunct Google+ social network platform.

The suit alleges that two 2018 data leaks caused the personal information of up to **500,000 users** to be exposed because of software glitches that gave third-party application developers access to private **Google+ profile data**.

Source: Bloomberg Law



Why do we need Data Security?

BigBasket Data Breach

When you shop via any e-commerce platform including Amazon, Flipkart, or BigBasket and Grofers and make an online payment, you are required to fill up your card details. The details are then stored on the app to make your future transactions seamless. Along with debit and credit cards, users also enter their phone numbers, their delivery address. BigBasket is said to have comprised sensitive data of over 40 million users.

BigBasket has acknowledged the breach and filed a police complaint against the hackers

Source: India Today



Why do we need Data Security?

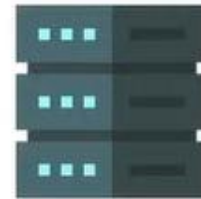
What is at stake?



User Data



Sales Data

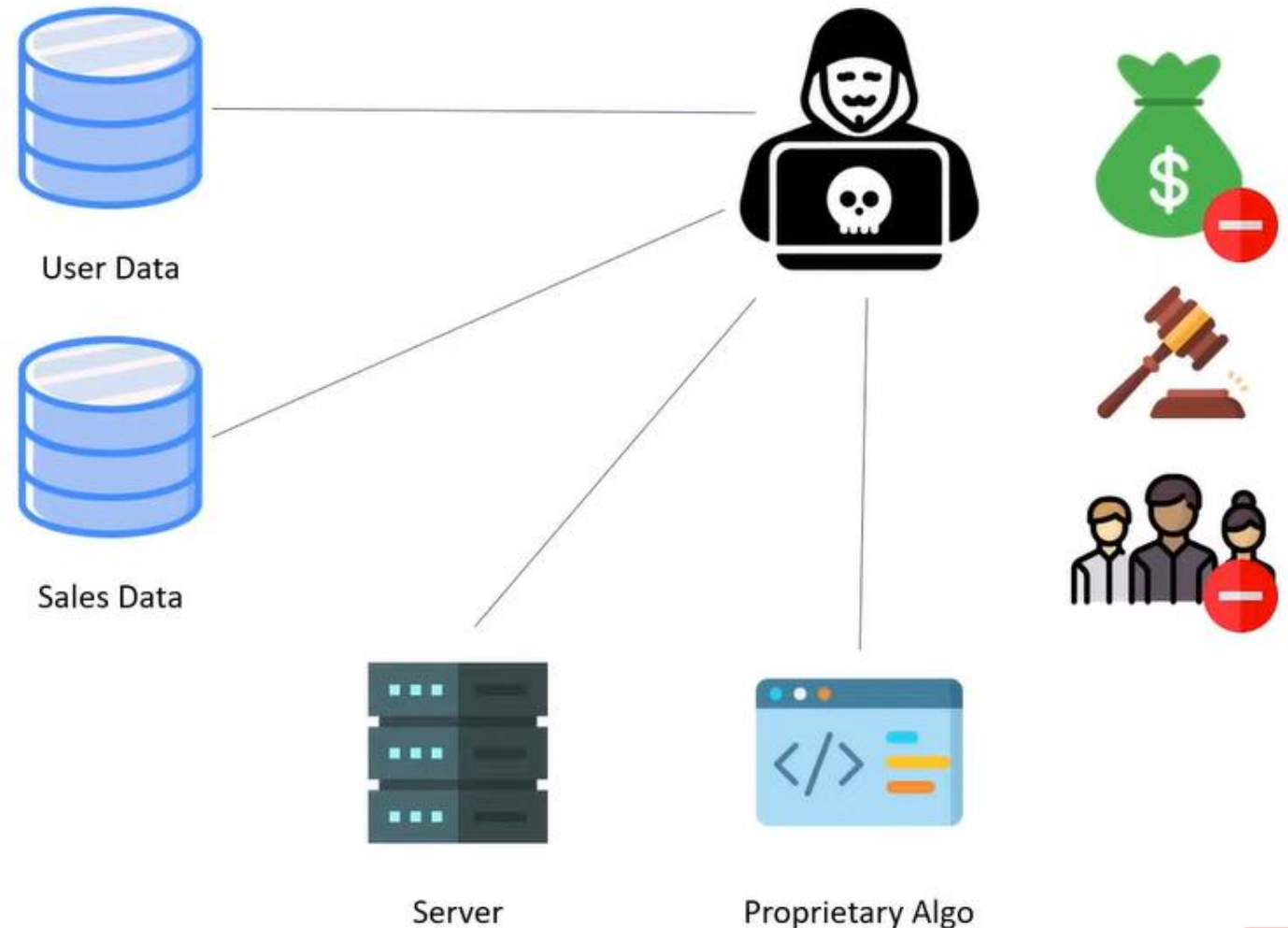


Server



Why do we need Data Security?

What is at stake?



Why do we need Data Security?

Measures for Data Security

Data encryption

Data masking

Data erasure

Data resilience

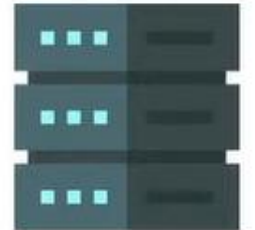


Endpoint Security

Endpoint Security

What are Endpoints?

Endpoints are also known as **entry-points** or **end-user devices**



Endpoint Security

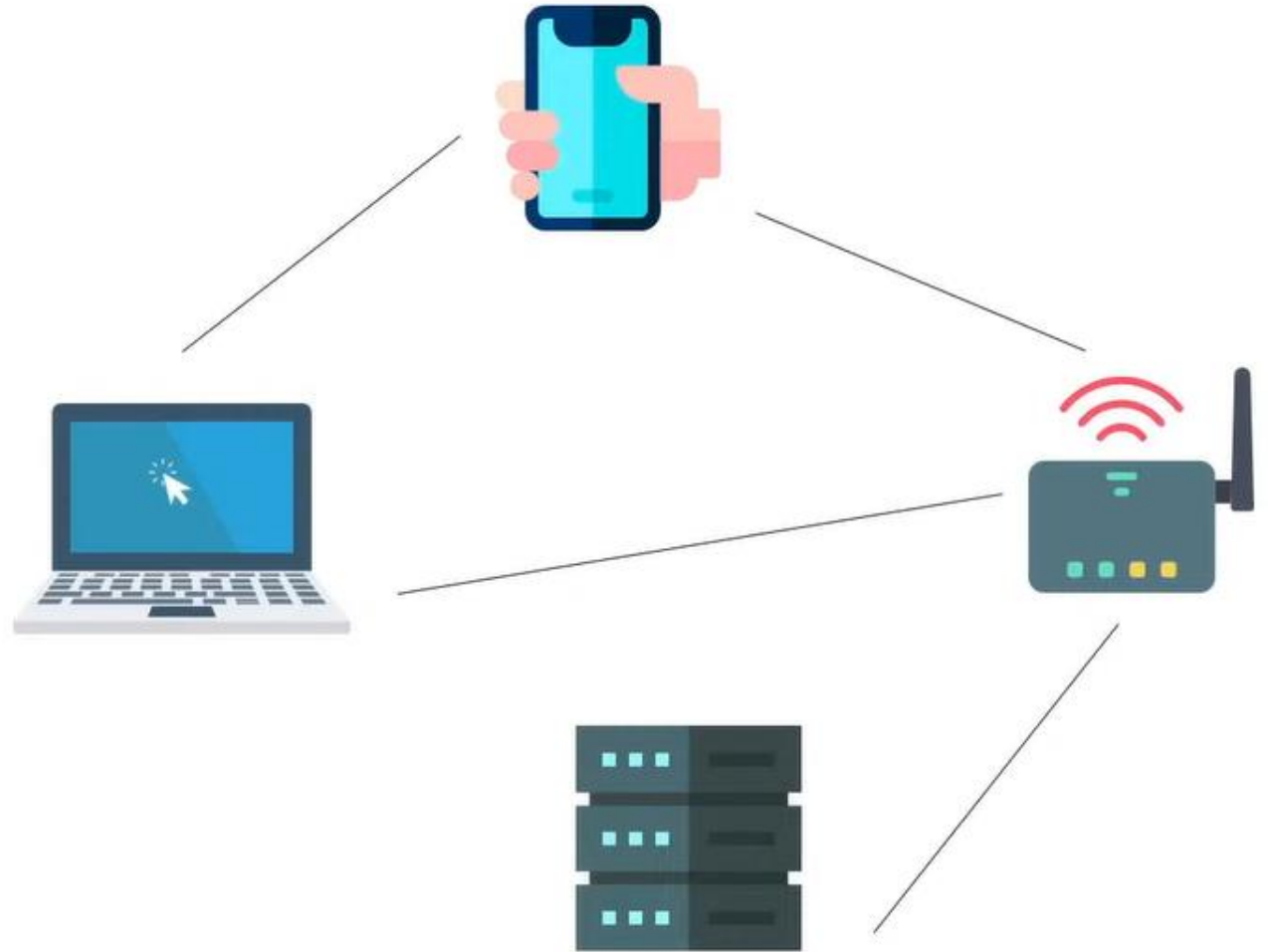
What is Endpoint Security?

Endpoint security or endpoint protection is an approach to the protection of computer networks that are remotely bridged to client devices. The connection of laptops, tablets, mobile phones, Internet-of-things devices and other wireless devices to corporate networks creates attack paths for security threats



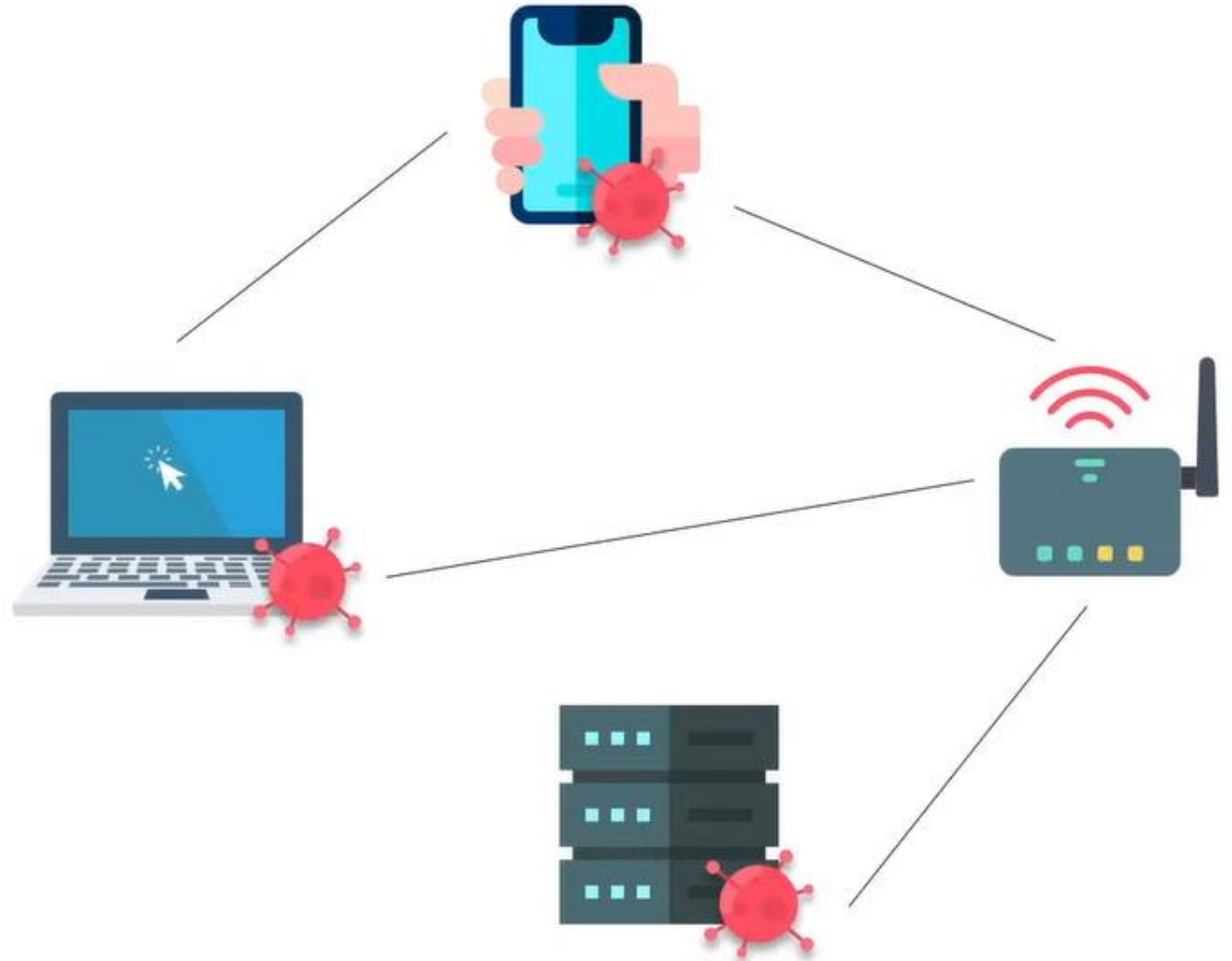
Endpoint Security

**The need to
secure an
Endpoint**



Endpoint Security

**The need to
secure an
Endpoint**



Endpoint Security

Ways to implement Endpoint Security

Educating and briefing personnel on cyber threats

Antivirus with event logs

Network security

Strong passwords

Secure Device Policies

Cyber Threats

Common Attacks



Malware



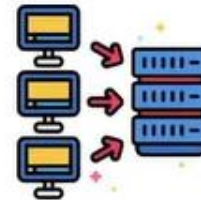
Phishing



SQL Injection



Cross-Site
Scripting



Denial
Of Service



Man in
The middle