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# ENDPOINT SECURITY



# WHAT IS AN ENDPOINT?

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**An endpoint is a device that is connected and communicates across a network.**

# EXAMPLES

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Hackers use endpoints as the first entry point for cyber attacks and laterally move across to other devices in the network.

# EDR

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EDR (Endpoint Detection and Response) is a cybersecurity technology designed to identify and respond to advanced threats on individual devices or endpoints within a network.

**Note:** It's based on **behavior** NOT only **signatures**

**E.g:** malware, ransomware, and exploits.

# KEY COMPONENTS:

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key components of EDR solutions include:

- real-time monitoring
- data collection analysis
- response capabilities.

# MONITORING AND DETECTION

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EDR solutions continuously monitor endpoint activities, analyzing behaviors and patterns to detect unusual or malicious activities.

## DATA COLLECTION:

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The types of data collected by EDR solutions:

- logs
- registry changes
- network connections
- file activities.



# ANALYSIS AND THREAT INTELLIGENCE:

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EDR solution is used to identify known malware and the behavior analysis to detect new or evolving threats.

## **INCIDENT RESPONSE:**

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EDR assists in incident response by providing real-time information about security incidents, enabling faster and more effective response actions.

## **FORENSIC CAPABILITIES:**

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EDR's forensic capabilities allow organizations to investigate and understand the scope and impact of security incidents.

## **INTEGRATION WITH SIEM:**

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EDR solutions integrate with Security Information and Event Management (SIEM) systems to provide a comprehensive security posture.

# CHALLENGES AND CONSIDERATIONS:

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EDR solutions face challenges such as

- False positives
- Employees privacy
- it requires skilled personnel to effectively utilize EDR solutions.

# EDR SOLUTIONS OVERALL

- EDR allows organizations to ensure employees, critical systems, and data are **protected** from **cyber attacks**.
- **EDR** is used to monitor, analyze, and mitigate suspicious/malicious activities within endpoints.

## EDR tools example:

Qradar, CrowdStrike, SentinelOne, Carbon Black, FireEye HX