



# EDR vs MDR: A Strategic Comparison

## Definitions

### EDR (Endpoint Detection and Response)

EDR is a security solution deployed on endpoints (like computers and servers) that monitors, detects, investigates, and responds to cyber threats in real time. It provides visibility into endpoint activity and enables IT teams to take automated or manual action against malicious behavior. Best suited for organizations with in-house security expertise, EDR offers control and customization but requires skilled personnel and ongoing oversight.

### MDR (Managed Detection and Response)

MDR is a fully managed cybersecurity service that combines EDR tools with 24/7 monitoring, threat hunting, and incident response by a team of external experts. It's ideal for organizations lacking internal security resources, providing rapid response and continuous protection without the overhead of managing tools or hiring staff. MDR reduces the operational burden while enhancing threat detection and compliance support.

## EDR/MDR Breakdown

Category	EDR (Endpoint Detection & Response)	MDR (Managed Detection & Response)
Definition	Software solution focused on detecting and responding to threats at endpoint level	Outsourced service that includes EDR capabilities along with human expertise and 24/7 monitoring
Core Features	- Endpoint activity monitoring - Threat detection - Forensics - Automated response actions	- 24/7 monitoring - Threat hunting - Incident response - Expert analysis - Reporting
Who Manages It	Internal IT/Security team	Third-party security provider (SOC team)

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<b>Category</b>	<b>EDR (Endpoint Detection &amp; Response)</b>	<b>MDR (Managed Detection &amp; Response)</b>
<b>Expertise Needed</b>	High – Requires skilled security analysts to interpret and act on alerts	Low – Expertise provided by MDR vendor
<b>Implementation</b>	Installed on endpoints and integrated into internal security stack	EDR component included, deployed and managed by the MDR provider
<b>Scalability</b>	Moderate – Limited by internal team resources	High – Scales with the provider’s infrastructure and resources
<b>Response Time</b>	Fast if internal team is responsive	24/7 response capability from MDR team
<b>Cost</b>	Lower upfront cost but higher internal resource demand	Higher subscription-based cost but includes labor and expertise
<b>Pros</b>	- Full control over data and processes - Deep customization possible	- 24/7 monitoring and response - Less burden on internal team - Faster deployment of expertise
<b>Cons</b>	- Requires internal resources and expertise - Risk of alert fatigue	- Less control over internal data - Dependency on third party
<b>Use Case</b>	Suitable for organizations with in-house security operations	Ideal for SMBs or understaffed IT teams lacking in-house SOC capabilities
<b>Compliance Support</b>	Depends on internal implementation and policies	Often includes reporting and support for compliance frameworks (e.g. PCI, HIPAA)
<b>Integration</b>	May require effort to integrate with other tools	Often comes pre-integrated or with professional support



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<b>Future Trends</b>	- Moving toward AI-enhanced autonomous response - Greater integration with XDR	- Increasing use of AI/ML for threat analysis - Growth in hybrid MDR + XDR offerings