



# DYNAMIC THREAT DEFENSE

**Prevent zero-day threats with powerful  
cloud-based sandboxing**

**CYBERSECURITY  
EXPERTS ON YOUR SIDE**

# What is a **cloud security sandbox product?**

**A cloud security sandbox is an isolated test environment in which a suspicious program is executed and its behavior is observed, noted and then analyzed in an automated manner.**

ESET Dynamic Threat Defense provides another layer of security for ESET products like Mail Security and Endpoint solutions by utilizing a cloud-based sandboxing technology to detect new, never-before-seen types of threats. This sandbox consists of multiple types of sensors that complete static analysis of code, deep inspection of the sample with machine learning, in-memory introspection and behavior-based detection.

# Why a cloud security sandbox?

## RANSOMWARE

Ransomware has been a constant concern for industries worldwide ever since Cryptolocker in 2013. Despite ransomware existing for far longer, it was never a major threat that businesses were concerned about. However, now a single incidence of ransomware can easily render a business inoperable by encrypting important or necessary files.

A cloud security sandbox product provides an additional layer of defense outside of a company's network to prevent ransomware from ever executing in a production environment.

## TARGETED ATTACKS AND DATA BREACHES

Today's cybersecurity landscape is constantly evolving with new attack methods and never-before-seen threats. When an attack or data breach occurs, organizations are typically surprised that their defenses were compromised or are completely unaware that the attack even happened. After the attack is finally discovered, organizations then reactively implement mitigations to stop this attack from being repeated. However, this does not protect them from the next attack that may use a different vector.

A cloud security sandbox's approach is much more effective than just looking at the appearance of the potential threat because it goes beyond just the mere appearance and instead observes what the potential threat does. This makes it much easier to determine whether the program is malicious or benign.

A cloud security sandbox product provides an additional layer of defense outside of a company's network.

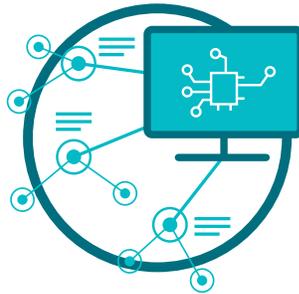
A cloud security sandbox goes beyond just the mere appearance and instead observes what the potential threat does.

# Our products and technologies stand on 3 pillars



## ESET LIVEGRID®

Whenever a zero-day threat such as ransomware is seen, the file is sent to our cloud-based malware protection system, LiveGrid®, where the threat is detonated and behavior is monitored. Results are provided to all endpoints globally within minutes without requiring any updates.



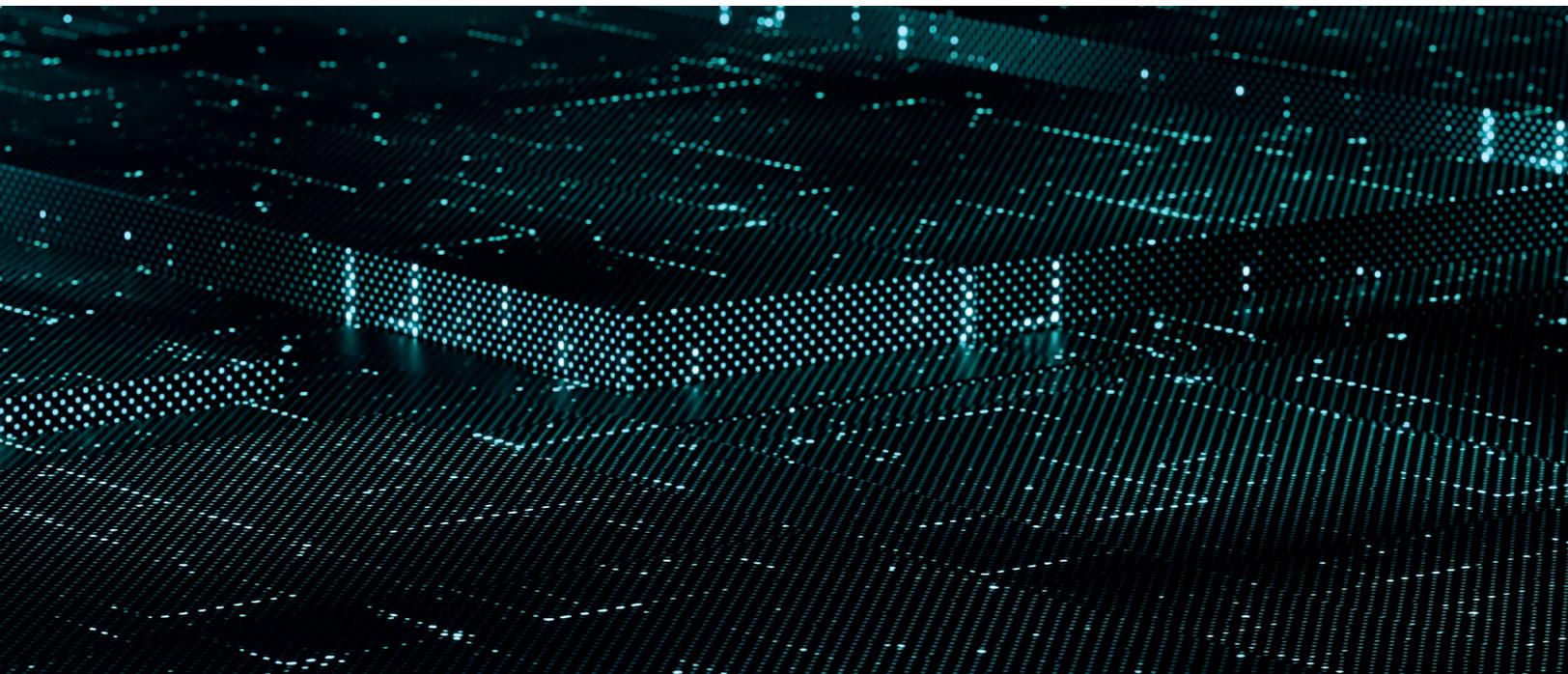
## MACHINE LEARNING

Uses the combined power of neural networks and handpicked algorithms to correctly label incoming samples as clean, potentially unwanted or malicious.



## HUMAN EXPERTISE

World-class security researchers share elite know-how and intelligence to ensure the best round-the-clock threat intelligence.





# Use cases

## Ransomware

### USE CASE

Ransomware tends to enter unsuspecting users' mailboxes through email.

### SOLUTION

- ✓ ESET Mail Security automatically submits suspicious email attachments to ESET Dynamic Threat Defense.
- ✓ ESET Dynamic Threat Defense analyzes the sample, then submits the result back to Mail Security—usually within 5 minutes.
- ✓ ESET Mail Security detects and automatically remediates attachments that contain the malicious content.
- ✓ The malicious attachment never reaches the recipient.

## Granular protection for different company roles

### USE CASE

Every role in the company requires different levels of protection. Developers or IT employees require different security restrictions than the office manager or CEO.

### SOLUTION

- ✓ Configure a unique policy per computer or per server in ESET Dynamic Threat Defense.
- ✓ Automatically apply a different policy based on different static user group or Active Directory group.
- ✓ Automatically change configuration settings simply by moving a user from one group to another.



# Unknown or questionable files

## USE CASE

Sometimes employees or IT receive a file that they want to double-check is safe.

## SOLUTION

- ✓ Any user can submit a sample for analysis directly within all ESET products.
- ✓ The sample is quickly analyzed by ESET Dynamic Threat Defense.
- ✓ If a file is determined to be malicious, all computers in the organization are protected.
- ✓ IT admin has full visibility into the user who submitted the sample, and whether the file was clean or malicious.



**FILE BEHAVIOR REPORT** ESET

**STATUS** Malicious

**SHA-1** F5E6A6C09784E1A0D0F1332AF4E1A19EA39F5A540F

**SIZE** 4367368

**CATEGORY** Executable

**Detected Behaviors**

<b>BEHAVIOR</b>	Malware detected after execution
<b>EXPLANATION</b>	Sample has been detected as malicious after execution
<b>BENIGN CAUSES</b>	Clean applications should not do this
<b>MALICIOUS CAUSES</b>	Malware detected with ESET scanning engine after execution
<b>BEHAVIOR</b>	New files created in the Windows folder
<b>EXPLANATION</b>	Sample has created new files in the Windows folder
<b>BENIGN CAUSES</b>	This is standard behavior for some installers
<b>MALICIOUS CAUSES</b>	Malware tried to hide its presence
<b>BEHAVIOR</b>	Analyzed sample copied
<b>EXPLANATION</b>	Sample has been copied to a different location
<b>BENIGN CAUSES</b>	This is standard behavior for some installers
<b>MALICIOUS CAUSES</b>	Malware tried to hide its presence
<b>BEHAVIOR</b>	Startup list modified
<b>EXPLANATION</b>	Sample has added a new entry to the Windows Startup application list
<b>BENIGN CAUSES</b>	This is standard behavior for some installers
<b>MALICIOUS CAUSES</b>	Malware wants to run after a system reboot
<b>BEHAVIOR</b>	Machine Learning detection
<b>EXPLANATION</b>	Sample behaves very similarly to known malware
<b>BENIGN CAUSES</b>	Clean applications should not do this
<b>MALICIOUS CAUSES</b>	Malware has been detected by Neural network Machine Learning
<b>BEHAVIOR</b>	New files in Program Files folder created
<b>EXPLANATION</b>	Sample has created new files in the Windows Program Files folder
<b>BENIGN CAUSES</b>	This is standard behavior for some installers
<b>MALICIOUS CAUSES</b>	Sample may be a Potentially Unwanted Application

**ESET** DYNAMIC THREAT DEFENSE



# ESET Dynamic Threat Defense technical features

## AUTOMATIC PROTECTION

Once everything is set up, there is no action needed by the admin or the user. The endpoint or server product automatically decides whether a sample is good, bad or unknown. If the sample is unknown, it is sent to ESET Dynamic Threat Defense for analyzing. Once analysis is finished, the result is shared and the endpoint products respond accordingly.

## TAILORED CUSTOMIZATION

ESET allows per-computer detailed policy configuration for ESET Dynamic Threat Defense so the admin can control what is sent and what should happen based on the receiving result.

## MANUAL SUBMISSION

At any time, a user or admin can submit samples via an ESET compatible product for analysis and get the full result. Admins will see who sent what and what the result was directly in the ESET Security Management Center or in ESET Cloud Administrator.

## MAIL SECURITY PROTECTION

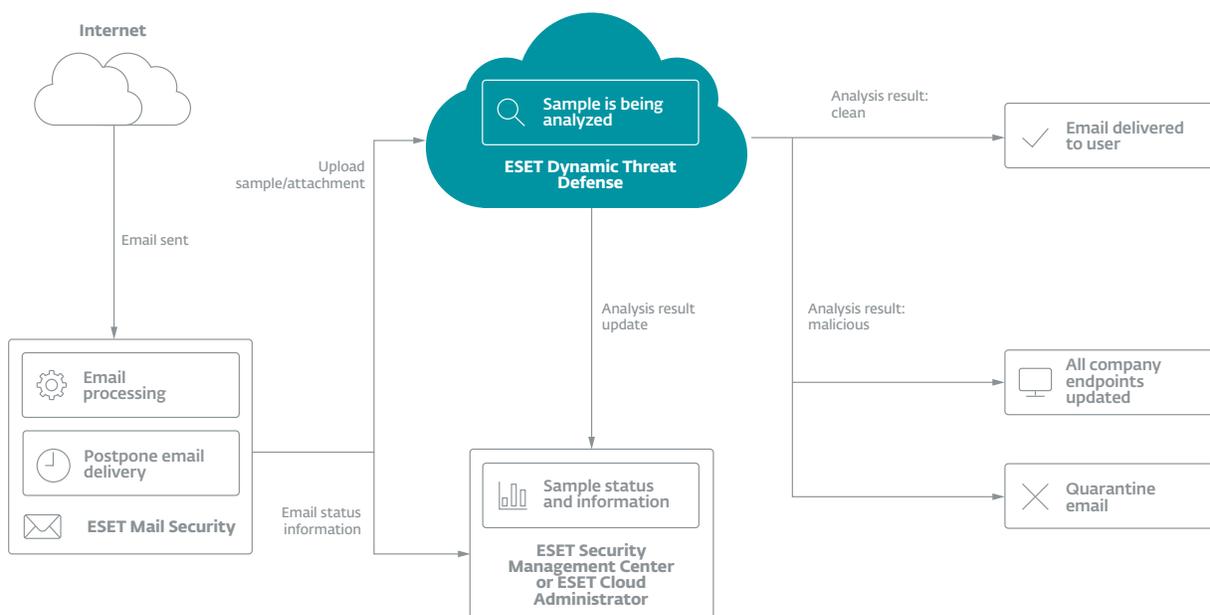
Not only does ESET Dynamic Threat Defense work with files, but it also works directly with ESET Mail Security to ensure that malicious emails are not delivered to your organization. To ensure business continuity, only emails coming from outside of the organization can be sent to ESET Dynamic Threat Defense for inspection.

*“The biggest thing that stands out is its strong technical advantage over other products in the marketplace. ESET offers us reliable security, meaning that I can work on any project at any time knowing our computers are protected 100%.”*

—Fiona Garland, Business Analyst Group IT;  
Mercury Engineering, Ireland; 1,300 seats

# How ESET Dynamic Threat Defense works

With ESET Mail Security



*“Our experience with ESET has been more than satisfactory, so much so that we have renewed our licenses for three more years. So, without a doubt, we recommend ESET solutions to all companies that want to increase their levels of security.”*

—Ernesto Bonhoure, IT Infrastructure Manager;  
Hospital Alemán, Argentina, 1,500+ seats

# About ESET

For more than 30 years, ESET® has been developing industry-leading IT security software and services, delivering instant, comprehensive protection against evolving cybersecurity threats for businesses and consumers worldwide.

ESET is privately owned. With no debts and no loans, we have the freedom to do what needs to be done for the ultimate protection of all our customers.

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## ESET IN NUMBERS

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**110M+**  
users  
worldwide

**400K+**  
business  
customers

**200+**  
countries and  
territories

**13**  
global R&D  
centers

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## SOME OF OUR CUSTOMERS

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**MITSUBISHI  
MOTORS**

Drive your Ambition

Protected by ESET since 2017

More than 14,000 endpoints

**Canon**

Canon Marketing Japan Group

Protected by ESET since 2016

More than 9,000 endpoints

**Allianz**   
Suisse

Protected by ESET since 2016

More than 4,000 mailboxes



ISP security partner since 2008

2 million customer base



ESET is compliant with [ISO/IEC 27001:2013](#), an internationally recognized and applicable security standard in implementing and managing information security. The certification is granted by the third-party accredited certification body [SGS](#) and demonstrates ESET's full compliance with industry-leading best practices.



ESET is a dedicated contributor to MITRE ATT&CK. By being one of the most referenced vendors and active contributors, ESET confirms its commitment to provide the best protection to the community and our customers.

## ESET AWARDS



## ANALYST RECOGNITION



ESET named the only Challenger in 2019 Gartner Magic Quadrant for Endpoint Protection Platforms, for a second year running.



ESET was rated a Strong Performer in The Forrester Wave<sup>(TM)</sup>: Endpoint Security Suites, Q3 2019.



ESET rated 'Top Player' in 2019 Radicati Endpoint Security report according to two main criteria: functionality and strategic vision.

Gartner Inc, Magic Quadrant for Endpoint Protection Platforms, Peter Firstbrook, Lawrence Pingree, Dionisio Zumerle, Prateek Bhajanka, Paul Webber, August 20, 2019. Gartner does not endorse any vendor, product or service depicted in its research publications. Gartner research publications consist of the opinions of Gartner's research organization and should not be construed as statements of fact. Gartner disclaims all warranties, expressed or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose.

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