# OPSWAT.

#### DATASHEET

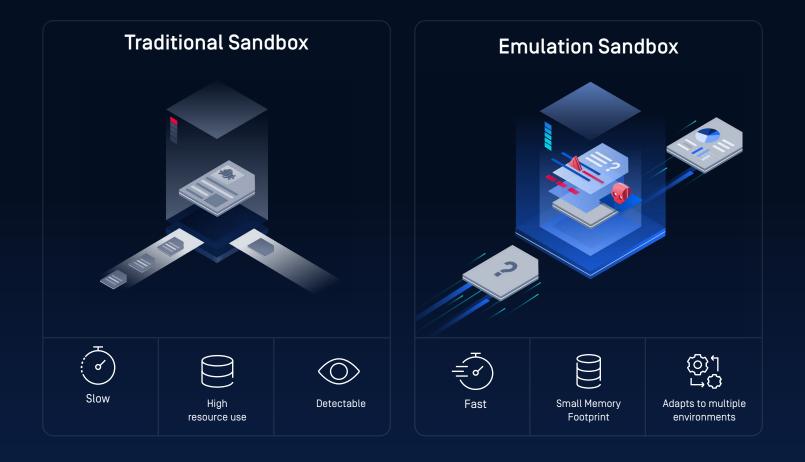
# MetaDefender Sandbox

# Advanced Threat Analysis Platform

MetaDefender Sandbox platform combines static and dynamic analysis with machine learning powered threat intelligence for highly accurate and rapid malware analysis. Our platform can analyze 25K+ files per day per machine. Enhance defensive capabilities, save time, and effectively hunt threats with advanced threat analysis.

# Overview

- Static analysis uses 30+ antivirus engines, Yara rules, and threat patterns for high-volume processing.
- Dynamic analysis virtually detonates malware with adaptive threat analysis to expose highly evasive malware and zero-day threats.
- Threat analysis accesses 50 billion+ hashes, IPS and domains, and includes threat actor attribution.
- Fully automated, zero-trust threat detection platform.



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# **Analysis Workflow**

### Stage 1 Deep Structure Analysis

Initial static file assessment and extract embedded active content.

- Analyzes 50+ different file types
- Extracts artifacts, images, and more
- Automated decoding, decompilation, and shell code emulation
- Extracts VBA macro code from DWG
- Compiled Phyton unpacking and decompilation for PyInstaller, Nuitka, and py2exe

#### Stage 2 Threat Detection and Classification

Detect and classify threats using machine learning and decades of experience.

- Detects 290+ brands for ML-based phishing detection
- Extracts and correlate a wide range of IOCs
- Detects malicious intent with 400+ generic behavior indicators
- ML-based similarity search detects unknown threats and malicious clusters
- Identify and extract configuration data from more than 18 malware families

# Stage 3 Adaptive Threat Analysis

Perform dynamic analysis on active content using adaptive threat analysis. Detect and classify threats using machine learning and decades of experience.

- Detonates targeted attacks via specific application stacks or environments
- Bypasses a wide range of anti-evasion checks
- Emulates JavaScript, VBS, PowerShell scripts
- Automatically adapts the control flow to detect unknown threats

## Stage 4 Threat Intelligence and Automation

**OPSWAT** 

Protecting the World's Critical Infrastructure

Perform automated threat hunting and real-time threat identification using a wide range of integrations.

- Exports to MISP & STIX report formats
- Queries MetaDefender Cloud reputation service
- Integrates with other open-source intelligence vendors
- Automatically generates YARA rules on a per threat basis
- Scans all artefacts with 8000+ YARA rules

### **Platform Features**

#### OPSWAT

- MetaDefender Core
- MetaDefender Cloud
- MetaDefender Threat Intelligence

#### • SOAR

- Splunk SOAR
- Palo Alto XSOAR
- Assemblyline 4

#### Others

- Virus Total
- Python CLI
- SIEM (CEF Syslog)

#### Others Cont.

- Chrome Extension
- Passive Email Scanning (IMAP)
- OpenAPI Specification (OAS)
- ChatGPT Executive Summary
- CIS Level 1 Compatible

### **Flexible Deployments**

#### **On-Premises (Example)**

- Intel Xeon-E 2136 [12M Cache, 3.30 GHz]
- RAM 32GB DDR4 ECC 2666 MHz
- 2x SSD NVMe 256GB RAID

Note: example system processes 25K files/ day with a retention period of 10 days.

#### Cloud

- 5000 scans/day: t3a.2xlarge
- 10000 scans/day: c4.4xlarge
- 25000 scans/day: c4.8xlarge

Learn more about the technical requirements technical requirements