**Bitdefender**®

**DATASHEET**

# Anti-Malware Scanner Service

The Anti-Malware Scanner Service is a cloud service based on Bitdefender's AI-powered anti-malware engine. It offers on-demand file scanning in the Bitdefender cloud, without the need to deploy any software locally and without putting a strain on the client's local resources. It is useful for partners that need to scan files for malware with unknown but varied volume, from devices without enough resources to run a full-fledged AV, and when the scan speed is not critical

Bitdefender's anti-malware engine can detect known and unknown – including zero-day – threats with both traditional signature-based engines, and advanced behavior analysis, feature correlation, and more.

Integration with the Anti-Malware Scanner Service is straightforward. The REST API is used to submit a file and return the verdict with a single call.

## Features

- **Advanced detection engine:** Simple signatures can detect known malicious files, while behavior profiling, meta-data correlation, and other complex detection mechanisms can identify the most sophisticated polymorphic threats.
- **AI-powered malware detection:** The service is powered by machine learning algorithms trained on carefully built data sets to improve its detection rate and minimize false positives.
- **OS-independent:** The SDK maintains the same detection rate regardless of the OS.
- **Easy scans:** Submit a file, scan it, and receive the verdict with a single API call.
- **Supports a broad range of file types:** Including executables, archives, documents, scripts, Android APK files, disk images, and more.
- **Fast for a cloud service:** The SDK returns a verdict in less than 4 seconds for 95% of files.

### At-a-Glance

The Anti-Malware Scanner Service is a cloud-based file scanning service employing Bitdefender's award-winning anti-malware engine. It is designed for systems that need to detect malicious files but cannot spare the resources required by a traditional AV solution.

### Key Benefits

- **Frees Up Local Resources:** Anti-Malware Scanner Service uses Bitdefender's highly available cloud to scan files, freeing up local resources. This can be very useful for devices that are incompatible with traditional AV solutions, like printers, legacy systems, some ARM-based devices, particular embedded systems and more.

- **Superior Detection Rate:** 99.9% detection rate consistently demonstrated in third-party tests. This is maintained over the same file types regardless of the OS.

- **Useful Context:** The service provides useful context in JSON format for infected or suspicious files.

- **Easy To Deploy:** JSON data encoding and REST API calls make the Anti-Malware Scanner Service easy to integrate into almost any infrastructure.

## How The Anti-Malware Scanner Service Works

The Anti-Malware Scanner Service supports REST API calls for scans. Clients can submit files via cURL or the axios node.js module. Once submitted, a file is processed by award-winning anti-malware engines in the cloud, offloading the task to Bitdefender's servers entirely.

Clients can send any number of files to Bitdefender's cloud, and send any number of API calls simultaneously, according to their licensing agreement.

Requests are encoded in JSON and return a detailed verdict immediately. Over 95% of files are scanned in less than 4 seconds per file. These are analyzed by traditional systems such as signature-based engines, with complementing technologies like large machine learning models, unarchivers, unpackers, emulators and scripts. The detailed scan verdict includes a file's status, whether clean, infected, encrypted or suspicious. If it is infected, the verdict will also include the threat type, and name.



**Bitdefender Cloud**

**REST API**

MReport.pdf
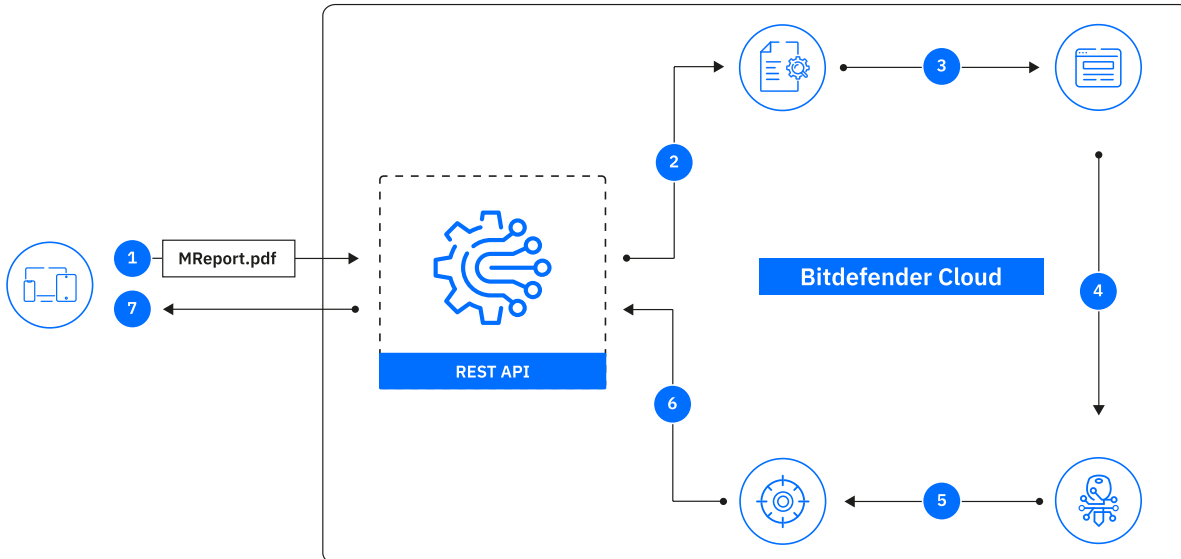
| | |
|---|---|
| 1 | The file is submitted with a REST API call via cURL or the axios node.js module. Supported files include documents, images, APKs, and more. The request is sent via HTTPS POST, encoded in JSON. |
| 2 | Important data is extracted from the file, based on the scan parameters set in the API request. |
| 3 | The file's behavior is analyzed with the help of an emulator and machine learning algorithms. |
| 4 | The file is processed by a cryptonalyzer to understand its encryption. |
| 5 | Extracted meta-data is analyzed by Bitdefender's multi-layered, Al-powered anti-malware engine. |
| 6 | A verdict is reached for the file: either clean, infected, encrypted or malicious. Bitdefender's detection rate is over 99,9%, regardless of the OS. |
| 7 | The verdict is sent back to the client via the same REST API call, encoded in JSON. The process takes less than 4 seconds for 95% of files. |

## FREE evaluation

Evaluating the Bitdefender Anti-Malware Scanner Service is free of charge and includes technical support.

## Contact us

For more information regarding the Anti-Malware Scanner Service please reach us at **https://www.bitdefender.com/oem/contact-us.html**