

Clam-AV Wrapper API Documentation

Base URL

`http://<host>:3000`

When running with Docker Compose, this is typically:

`http://localhost:3000`

Content Type

- `multipart/form-data` for file uploads
 - `application/json` for responses
-

1. Health Check API

Endpoint

`GET /health`

Description

Checks whether the ClamAV service is reachable and responding.

Request

- **Body:** None
- **Headers:** None

Successful Response

Condition: ClamAV is reachable

```
{  
  "status": "REACHABLE"  
}
```

- **HTTP Status Code:** 200 OK

Failure Response

Condition: ClamAV is down or unreachable

```
{  
  "status": "UNREACHABLE"  
}
```

- **HTTP Status Code:** 503 Service Unavailable
-

2. Scan File API

Endpoint

POST /scan

Description

Uploads a file and scans it for malware using ClamAV (INSTREAM mode).

Request

- **Content-Type:** multipart/form-data
- **Form Field:**

Key	Type	Required	Description
file	File	Yes	File to be scanned

2.1 Clean File Response

Condition: File is clean (no virus detected)

```
{  
  "status": "CLEAN",  
  "scannedBytes": 12345,  
  "timeTaken": 2345  
}
```

- **HTTP Status Code:** 200 OK
-

2.2 Infected File Response

Condition: Virus detected in file

```
{  
  "status": "INFECTED",  
  "virusName": "Eicar-Test-Signature",  
  "scannedBytes": 12345,  
  "timeTaken": 2345  
}
```

- **HTTP Status Code:** 200 OK
-

2.3 ClamAV Unreachable / Scan Error

Condition: ClamAV service is down or unreachable during scan

```
{  
  "status": "UNREACHABLE",  
  "error": "ClamAV service is not reachable"  
}
```

- **HTTP Status Code:** 503 Service Unavailable

2.4 Validation Errors

Condition: - File size exceeds configured limits - Invalid request format

```
{  
  "status": "ERROR",  
  "error": "File too large to scan"  
}
```

- **HTTP Status Code:** 400 Bad Request

Status Codes Summary

Status Code	Meaning
200	Request successful
400	Invalid request or validation failure
503	ClamAV service unavailable

Notes

- Maximum file size and scan limits are configurable via environment variables.
- Scans are concurrency-limited to protect the ClamAV daemon.
- Only in-memory (buffer-based) scanning is supported.

Example (Postman)

- Method: POST
- URL: `http://localhost:3000/scan`
- Body → form-data
 - Key: file
 - Type: File
 - Value: Select file