

## Understanding Advanced Threat Protection Reports

<https://campus.barracuda.com/doc/96023051/>

The Advanced Threat Protection (ATP) service analyzes inbound email attachments with most file types and publicly accessible direct download links in a separate, secured cloud environment, detecting new threats and determining whether to block such messages. ATP offers protection against advanced malware, zero-day exploits, and targeted attacks, such as phishing, not detected by Email Gateway Defense virus scanning features.

### ATP Classifications

When publicly accessible direct download links are scanned, and a file is determined to be suspicious, it is automatically classified as malicious; publicly accessible file links are classified as either malicious or clean.

- **Malicious** – File classified as high risk. File is highly likely to be malware
- **Suspicious** – File classified as medium risk. File may pose a potential risk
- **Clean** – File classified as low risk. No malicious indicators were detected

Exercise caution even with files marked CLEAN as malware authors are continually finding new ways to evade detection.

### Terminology

- **Determination versus Verdict** – When a scan is complete and the risk potential is classified, that scan displays a *Determination*. For example, if the file is determined to have medium risk, the determination is **Suspicious**. After all scans are complete, a *Verdict* displays based on the determination of all scans.
- **Reclassified** – If a scan determination is **Malicious** or **Suspicious**, but the file is reviewed by the Barracuda Networks Analyst Team and determined to be **Clean**, the *Verdict* displays as **Clean** and **Reclassified by Analyst** displays.

### ATP Report Sections

The ATP report is divided into the following sections:

#### Scan Description

This section provides a short description of the ATP report and how the scan verdict is reached.

### **Overall Determination**

This section displays the scan verdict and reason for this file. The verdict is based on the outcome, or determination, of each scan.

### **File Metadata**

This section lists file-specific details including file extension, file size, meta-data, and when the file was first submitted.

### **Threat Analysis**

This section lists the outcome of each scan; each detection layer is designed to progressively eliminate threats at different levels of severity and complexity. Note that files may not necessarily undergo all detection layers.

- Enhanced Antivirus detection scans the file through a comprehensive system of traditional antivirus signatures.
- Behavioral Heuristics analyzes through a heuristics engine utilizing behavioral indicators.
- Dynamic Analysis targets zero-day malware and other advanced threats, which are highly elusive and can remain undetected for days and months. A combination of analysis and de-obfuscation of suspicious code makes this layer fast and highly effective at pre-filtering malware for cloud-based sandboxing.
- Sandboxing executes the file in an isolated environment where its behavior is analyzed and assigned a risk level.

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