

# Advanced Threat Detection

Next-level protection against advanced malware, targeted attacks, and zero-hour exploits

When existing antivirus protection and/or intrusion prevention systems being used are no longer capable of solely dealing with modern, persistent threats, it is essential to add Advanced Threat Detection to a company's security environment.

### The Barracuda Difference

Barracuda Networks' Advanced Threat Detection (ATD) implements full-system emulation which provides the deepest visibility into malware behavior while simultaneously being the toughest one to evade. Files are checked against a cryptographic hash database that is constantly updated, and in case the file is unknown, it is emulated in a virtual sandbox where malicious behavior can be discovered. While traditional solutions mostly detect network threats after they have breached the network and after sending log notifications to the administrator, the Barracuda NG Firewall supports two types of emulation policies that can be assigned to specific file types.

The first policy is the traditional "let the user download a file and forward it to the emulation service." As soon as the file is scanned and malicious file activity has been identified, a log event will be created and the administrator can contact the user to remediate the threat. Since the malware has been downloaded to the corporate network, preventing the malware from spreading and damaging valuable corporate assets is now key. In order to minimize this breakout, Barracuda NG Firewall provides an automatic User/IP/machine blacklisting feature that will automatically quarantine victims of advanced malware by blocking further network activities. The second policy that can be assigned on a per-file basis forces the user to wait until the file is emulated and not malicious or suspicious. Only safe files will be forwarded to the respective user.



### Barracuda NG Firewall

The next-generation firewall for enterprise-scale distributed networks

# The Barracuda Advantage

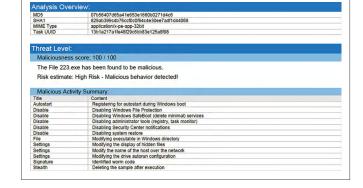
- Flexible, Simple Deployment: Easy to deploy, easy to use, and affordable Advanced Threat Detection. No new equipment is needed.
- Full-System Emulation: Not only detects targeted and persistent attacks, but also malware that was designed to evade detection by traditional sandboxes used by first-generation advanced persistent threat security vendors.
- Automatic User and IP Blacklisting: Based on identified malware activities infected users can be automatically blocked from the corporate network.

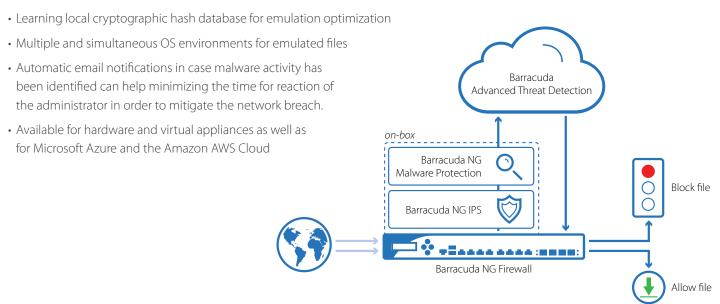
- **Customizable, On-demand Analysis Reports:** Available for any emulated file providing full information on malicious activities such as registry entries, network activity (e.g., botnet command and control center traffic), or obfuscation tactics.
- **Unrivaled Detection Speed:** Provides instant threat visibility and protection.
- **Information on Identified Malware:** It's centrally stored and shared in order to optimize emulation.

## **Key Features**

- Prevent malicious files—even unknown ones—from entering the organization and avoid network breaches.
- Identify zero-day malware exploits, targeted attacks, advanced persistent threats and other advanced malware which routinely bypass traditional signature based IPS and antivirus engines.
- Granular Control over PDFs, EXEs/MSIs/DLLs, Android APKs, Microsoft Office files, and compressed files and archives
- Full interoperability with the integrated SSL Inspection files can be extracted and checked in order to detect advanced malware in the encrypted stream.
- Cloud based emulation resource intensive file emulation is offloaded to the Barracuda Cloud.







ANALYSIS AND PREVENTION OF THREATS (MALWARE, INFECTED OBJECTS)	
Dynamic, on-demand analysis of malware programs (sandboxing)	•
Dynamic analysis of documents with embedded exploits (PDF, Office, etc.)	•
Detailed forensics for both, malware binaries and web threats (exploits)	•
High-resolution malware analysis (monitoring execution from the inside)	•
Support for multiple operating systems (Windows, Android, etc.)	•
Flexible malware analysis in the cloud	•

## **Availability**

- The Barracuda Advanced Threat Detection is available as a separate subscription. An active Barracuda Malware Protection or Barracuda Web Security subscription is needed.
- · Barracuda NG Firewall model F200 and higher
- All Virtual Appliances
- Microsoft Azure and Amazon AWS public cloud offerings