

Integration with the Barracuda Advanced Threat Protection

<https://campus.barracuda.com/doc/73699152/>

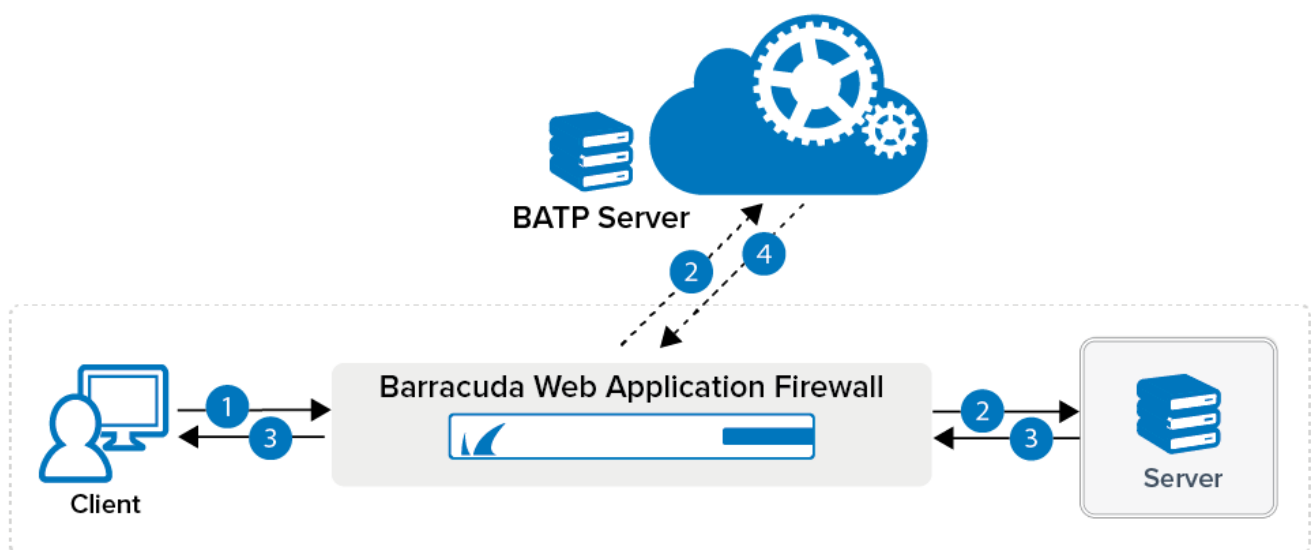
The Barracuda Advanced Threat Protection (BATP) is a cloud-based service that provides in-depth defense against ransomware, malware, and advanced cyber attacks. The Barracuda Web Application Firewall integrates with the Barracuda Advanced Threat Protection (BATP) to scan all files uploaded using POST method requests with encoding type multipart/form-data. BATP scans the files with multiple malware scanners that utilize different types of detection techniques to check for anomalies in the uploaded files and provides defense against zero day attacks. When a file is uploaded, the Barracuda Web Application Firewall processes the request and uploads the file to the server, while the BATP performs the scan and logs the details in the **BASIC > Web Firewall Logs** page. To view BATP logs in the **BASIC > Web Firewall Logs** page, use the **BATP Scan** keyword and filter the logs.

The BATP logs are also displayed in the **ADVANCED > System Logs** page with limited information such as file name, host, and URL.

The maximum size of the file that the BATP can scan is 10MB.

Barracuda Advanced Threat Protection (BATP) is a separate license that needs to be purchased from Barracuda Networks.

Scanning Process in the Barracuda Advanced Threat Protection



1. Client uploads a file as multipart/form-data in a request.
2. The Barracuda Web Application Firewall checks for the file extension/content-type and if the content-type matches the allowed policy, the file is sent to the server. If the content matches any of the MIME types listed below, the file is also sent to the BATP server.

- application/pdf
- application/msword
- application/vnd.ms-powerpoint
- application/vnd.ms-excel
- application/x-msaccess
- application/vnd.openxmlformats-officedocument.presentationml.presentation
- application/vnd.openxmlformats-officedocument.spreadsheetml.sheet
- application/vnd.ms-cab-compressed
- application/vnd.microsoft.portable-executable
- application/vnd.openxmlformats-officedocument.wordprocessingml.document
- application/rtf

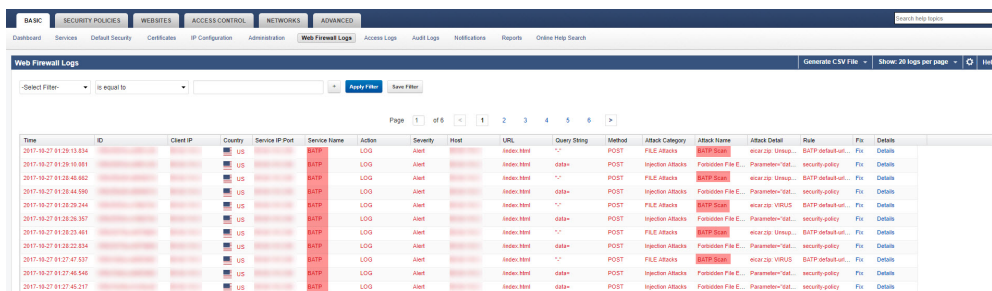
2. The server sends the response after processing the request.

Barracuda Networks recommends quarantining all files until the BATP scan results are received.

3. The Barracuda Web Application Firewall forwards the response to the client.
4. The BATP server analyzes the file content for any zero day attack or for the presence of other malwares.
 1. The Barracuda Web Application Firewall checks the BATP server for file scan completion.
 2. After the file scan is complete, the BATP server sends the response with details.
 3. The Barracuda Web Application Firewall processes the response and generates logs for the scanned file.

Logs generated by BATP

1. The status of the scanned files is logged in the **BASIC > Web Firewall Logs** page.



| Time | ID | Client IP | Country | Service Name | Action | Severity | Host | URL | Query String | Method | Attack Category | Attack Name | Attack Detail | Rule | Fix | Details |
|-------------------------|----|-----------|---------|--------------|--------|----------|------|------------|--------------|--------|-------------------|---------------------|-------------------|---------------------|-----|---------|
| 2015-10-27 01:28:13.834 | | | US | | LOG | Alert | | Index.html | ? | POST | FILE Attacks | HTTP Status | near zip Unexp... | BATP default out... | Fix | Details |
| 2015-10-27 01:28:10.861 | | | US | | LOG | Alert | | Index.html | data= | POST | Injection Attacks | Forbidden File E... | Parameter 'lat... | security policy | Fix | Details |
| 2015-10-27 01:28:40.862 | | | US | | LOG | Alert | | Index.html | ? | POST | FILE Attacks | HTTP Status | near zip Unexp... | BATP default out... | Fix | Details |
| 2015-10-27 01:28:44.590 | | | US | | LOG | Alert | | Index.html | data= | POST | Injection Attacks | Forbidden File E... | Parameter 'lat... | security policy | Fix | Details |
| 2015-10-27 01:28:39.244 | | | US | | LOG | Alert | | Index.html | ? | POST | FILE Attacks | HTTP Status | near zip VIRUS | BATP default out... | Fix | Details |
| 2015-10-27 01:28:26.357 | | | US | | LOG | Alert | | Index.html | data= | POST | Injection Attacks | Forbidden File E... | Parameter 'lat... | security policy | Fix | Details |
| 2015-10-27 01:28:23.461 | | | US | | LOG | Alert | | Index.html | ? | POST | FILE Attacks | HTTP Status | near zip Unexp... | BATP default out... | Fix | Details |
| 2015-10-27 01:28:22.634 | | | US | | LOG | Alert | | Index.html | data= | POST | Injection Attacks | Forbidden File E... | Parameter 'lat... | security policy | Fix | Details |
| 2015-10-27 01:27:47.637 | | | US | | LOG | Alert | | Index.html | ? | POST | FILE Attacks | HTTP Status | near zip VIRUS | BATP default out... | Fix | Details |
| 2015-10-27 01:27:40.546 | | | US | | LOG | Alert | | Index.html | data= | POST | Injection Attacks | Forbidden File E... | Parameter 'lat... | security policy | Fix | Details |
| 2015-10-27 01:27:40.217 | | | US | | LOG | Alert | | Index.html | data= | POST | Injection Attacks | Forbidden File E... | Parameter 'lat... | security policy | Fix | Details |

- Click the **Details** link to view the **Web Firewall Log Details** page. The details of the scan are shown in the **Attack Details** section.


Web Firewall Log Details [Help](#)

ALERT 2017-10-27 01:29:13
15f5cf3001b-e4891c36

Event Details

| | |
|----------------|-------------|
| Service IP | [REDACTED] |
| Service App Id | BATP |
| Service Port | 80 |
| URL | /index.html |
| Method | POST |
| Protocol | HTTP |
| Query String | "-" |

Client Details

| | |
|--------------------|--|
| Client IP | [REDACTED] |
| Client Port | 52988 |
| Country |  US |
| Host | [REDACTED] |
| User Agent | curl/7.15.3 (i686-pc-linux-gnu) libcurl/7.15.3 OpenSSL/0.9.8c zlib/1.2.7 |
| Client Type | Attack |
| Session ID | |
| Proxy IP | [REDACTED] |
| Proxy Port | 20480 |
| Authenticated User | |
| Referer | |

Prevention Details

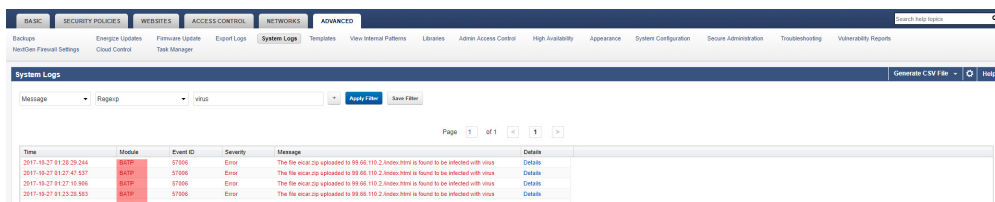
| | |
|------------------|-------------------------|
| Action | LOG |
| Rule | BATP:default-url-policy |
| Rule Type | URL Policy |
| Follow Up Action | None |

Attack Details

| | |
|-----------------|----------------------------------|
| Attack | BATP Scan |
| Attack Category | FILE Attacks |
| Detail | eicar.zip: Unsupported mime type |

3. The BATP module also generates additional logging information which is available in the **ADVANCED > System Logs** page.

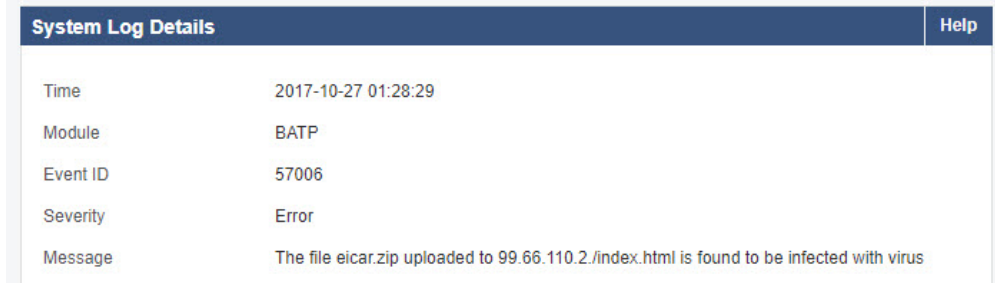
1. To view the system logs under the **Module BATP**, select **Message** from the **-Select Filter-** dropdown, select **Regexp** from the **is equal to** dropdown and type **virus** in the text box beside the **is equal to** text box.
2. Click the **Apply Filter** button to immediately view the generated system logs.
3. Click on the **Save Filter** button to view the **System Logs** page at a later point in time. The **System Logs** page is as shown:



| Time | Module | Event ID | Severity | Message | Details |
|-------------------------|--------|----------|----------|--|---------|
| 2017-10-27 01:20:28.244 | BATP | 57006 | Error | The file eicar.zip uploaded to 99.66.110.2/index.html is found to be infected with virus | Details |
| 2017-10-27 01:20:47.937 | BATP | 57006 | Error | The file eicar.zip uploaded to 99.66.110.2/index.html is found to be infected with virus | Details |
| 2017-10-27 01:21:16.886 | BATP | 57006 | Error | The file eicar.zip uploaded to 99.66.110.2/index.html is found to be infected with virus | Details |
| 2017-10-27 01:23:28.583 | BATP | 57006 | Error | The file eicar.zip uploaded to 99.66.110.2/index.html is found to be infected with virus | Details |
| 2017-10-27 01:15:10.302 | BATP | 57006 | Error | The file eicar.zip uploaded to 99.66.110.2/index.html is found to be infected with virus | Details |

The **System Logs** image displays the **Module** name as **BATP**. However, the **Module** name under **System Logs** is displayed as **BATD** in the firmware version 9.1.

4. Click the **Details** link to view the **System Log Details** page. The **System Log Details** page is as shown:



| Time | Module | Event ID | Severity | Message |
|---------------------|--------|----------|----------|--|
| 2017-10-27 01:28:29 | BATP | 57006 | Error | The file eicar.zip uploaded to 99.66.110.2/index.html is found to be infected with virus |

After the logs are generated, the administrator can filter logs using the **BATP Scan** keyword. If any infected file is found, the administrator should take necessary action(s) to remove it from the server.

Figures

1. waf_batp.png
2. Web_Firewall_logs_BATP logs.png
3. Web_Firewall_Log_Details.png
4. System_Logs.png
5. System_Log_Details.png

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