



# Integrations

Barracuda

V5.3.0

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CHAPTER  
**ONE**

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## **BARRACUDA**

Barracuda normalizes Barracuda events and enables you to analyze Barracuda data. LogPoint aggregates and normalizes the Barracuda logs so you can analyze the information through *LP\_Barracuda SV Firewall*, *LP\_Barracuda Web Application Firewall*, and *LP\_Barracuda Web Filter* dashboards. The dashboards provide visualization of attacks, URL details, content type, banned attachment, and spam fingerprints detected in your network.

Barracuda consists of the following components:

### **1. Dashboard Packages**

- LP\_Barracuda Web Application Firewall
- LP\_Barracuda SV Firewall
- LP\_Barracuda Web Filter

### **2. Compiled Normalizers**

- BarracudaNGFirewallCompiledNormalizer
- BarracudaCEFNormalizer
- BarracudaEmailSGCompiledNormalizer
- BarracudaWAFCompiledNormalizer
- BarracudaEmailSecurityServiceCompiledNormalizer
- BarracudaWSGCompiledNormalizer

### **3. Normalization Packages**

- LP\_Barracuda Email Security Gateway
- LP\_Barracuda NG Firewall
- LP\_Barracuda Web Application Firewall
- LP\_Barracuda WAF CEF
- LP\_Barracuda Firewall
- LP\_Barracuda Web Filter

- LP\_Barracuda Load Balancer
- LP\_Barracuda ADC 540Vx Loadbalancer
- LP\_Barracuda Cloud Email Filter

#### **4. Label Packages**

- LP\_Barracuda NG Firewall
- LP\_Barracuda Web Filter

#### **5. Search Template**

- LP\_BarracudaWAF

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CHAPTER  
**TWO**

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## INSTALLING BARRACUDA

### **Prerequisite**

LogPoint v6.7.4 or later

### **Supported Devices**

- Barracuda System and Firewall
- Barracuda Web Application Firewall CEF
- Barracuda NG Firewall (Model F600) - version 5.4.3-182
- Barracuda Firewall
- Barracuda Web Filter
- Barracuda Spam And Virus Firewall
- Barracuda WAF

### **To install Barracuda:**

1. Go to *Settings >> System Settings >> Applications*.
2. Click **Import**.
3. **Browse** the downloaded .pak file.
4. Click **Upload**.

After installing Barracuda, you can find it under *Settings >> System >> Plugins*.

## CONFIGURING BARRACUDA

### 3.1 Adding a Normalization Policy for Barracuda

1. Go to *Settings* >> *Configuration* >> *Normalization Policies*.
2. Click **Add**.
3. Enter a **Policy Name**.
4. Select the **Compiled Normalizer** for Barracuda.
5. Click **Submit**.

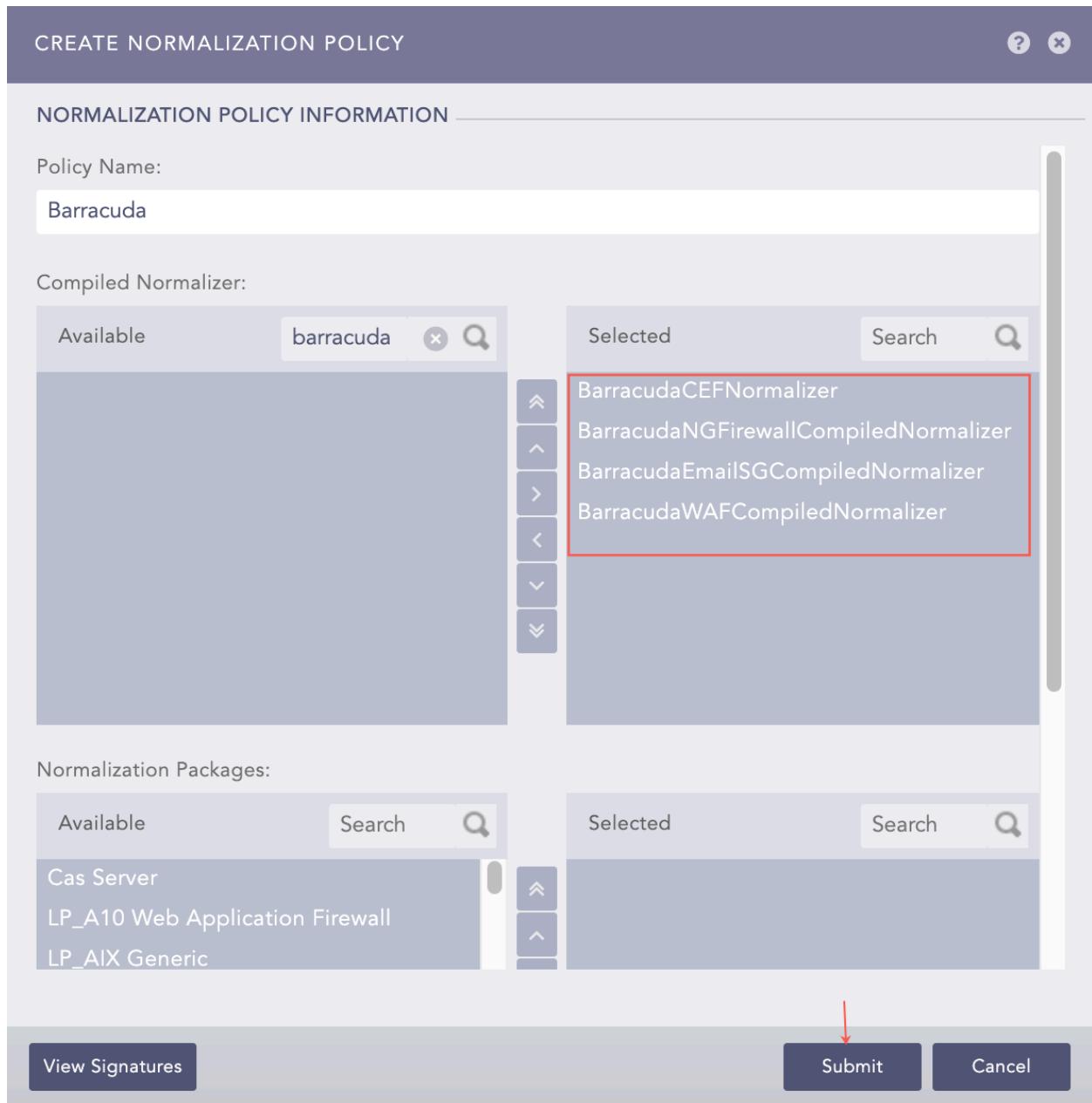


Fig. 1: Selecting Compiled Normalizer

## 3.2 Adding Barracuda as a Device in LogPoint

1. Go to *Settings >> Configuration >> Devices*.
2. Click **Add**.

CREATE DEVICE

DEVICE INFORMATION

Name: Barracuda

IP address(es): 1.1.1.3

Device Groups: windows

Log Collection Policy: Barracuda

Distributed Collector:

Time Zone: UTC TimeZone

RISK VALUES

Confidentiality: Minimal

Integrity: Minimal

Availability: Minimal

Submit

Cancel

Fig. 2: Adding Barracuda as a Device

3. Enter a device **Name**.
4. Enter the **IP address(es)** of the Barracuda server.
5. Select the **Device Groups**.
6. Select an appropriate **Log Collection Policy** for the logs.
7. Enter a collector or a forwarder in the **Distributed Collector**.

**Note:** It is optional to select the **Device Groups**, the **Log Collection Policy**, and the **Distributed Collector**.

8. Select a **Time Zone**.

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**Note:** The timezone of the device must be the same as its log source.

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9. Configure the **Risk Values** for **Confidentiality**, **Integrity**, and **Availability** used to calculate the risk levels of the alerts generated from the device.
10. Click **Submit**.

### 3.3 Configuring the Syslog Collector for Barracuda

1. Click **Syslog Collector** on the *Available Collectors Fetchers*.

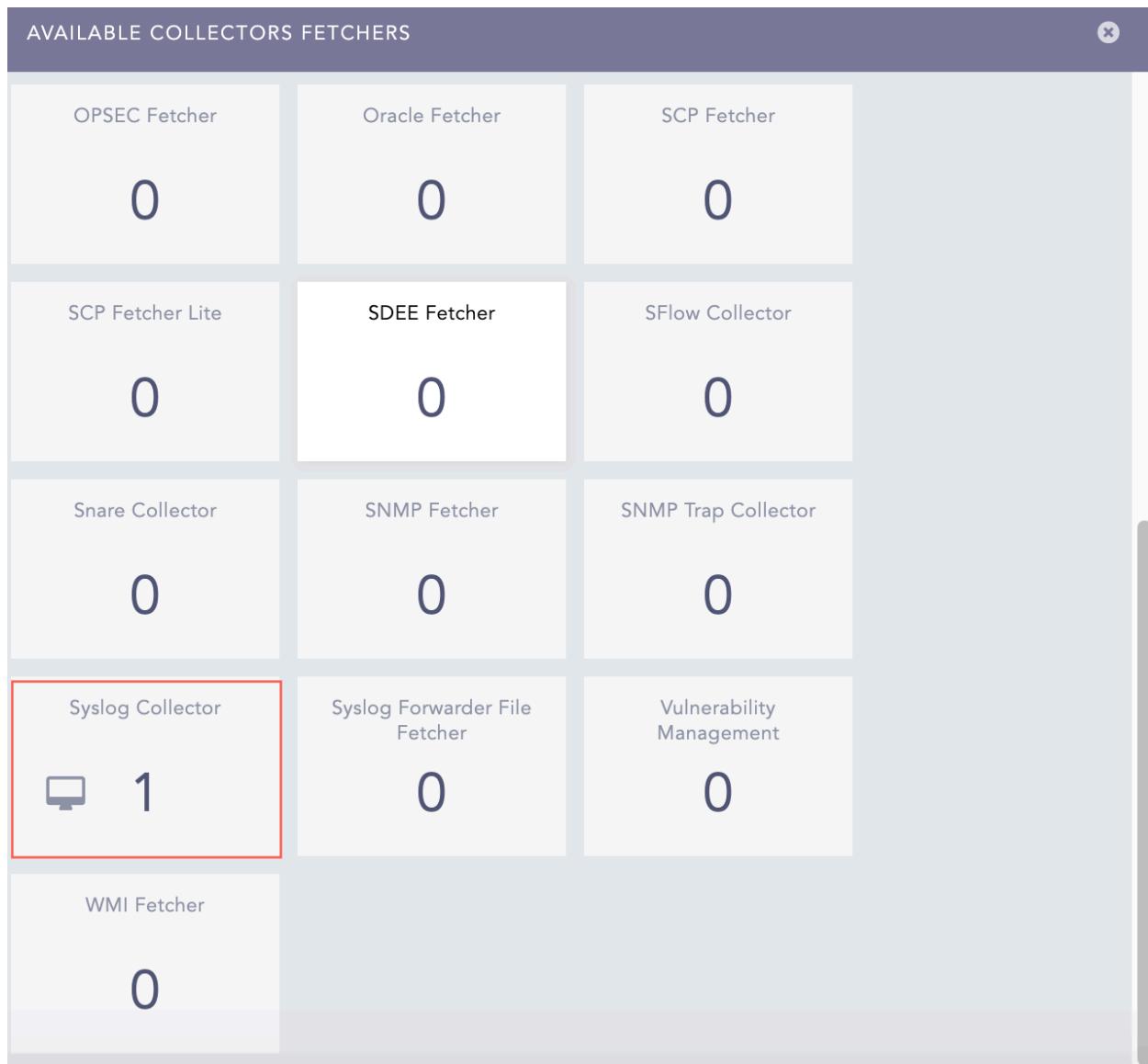


Fig. 3: Available Collectors Fetchers

2. Select the **Syslog Parser**.
3. Select the **Processing Policy** which contains the previously added *normalization policy*.
4. Select the **Charset**.
5. In **PROXY SERVER**, select **None**.
6. Click **Submit**.

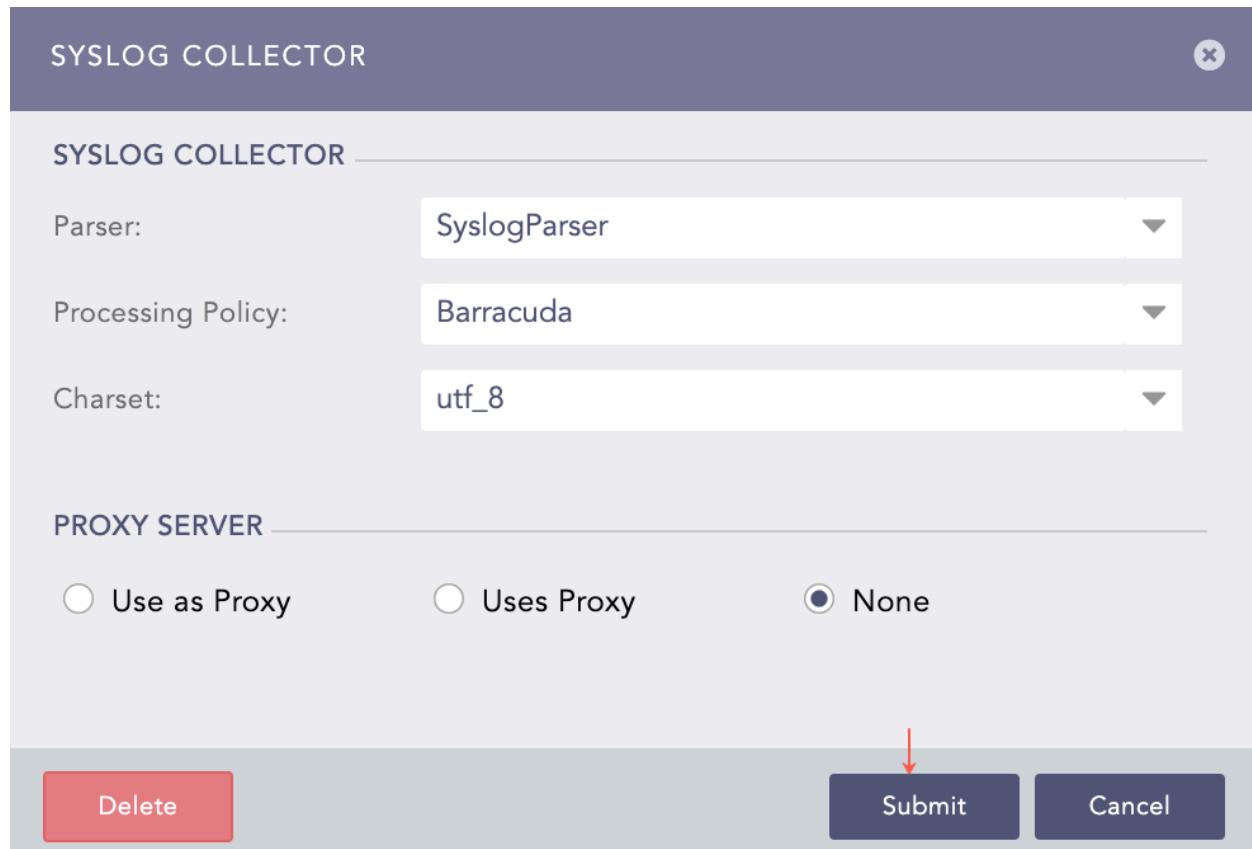


Fig. 4: Configuring the Syslog Collector for Barracuda

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## CHAPTER FOUR

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# BARRACUDA ANALYTICS

## 4.1 Adding the Barracuda Dashboard

1. Go to *Settings* >> *Knowledge Base* >> *Dashboards*.
2. Select **VENDOR DASHBOARD** from the drop-down.
3. Click the **Use** icon from the **Actions** column.

Fig. 1: Adding the Barracuda Dashboard

4. Click **Choose Repos**.

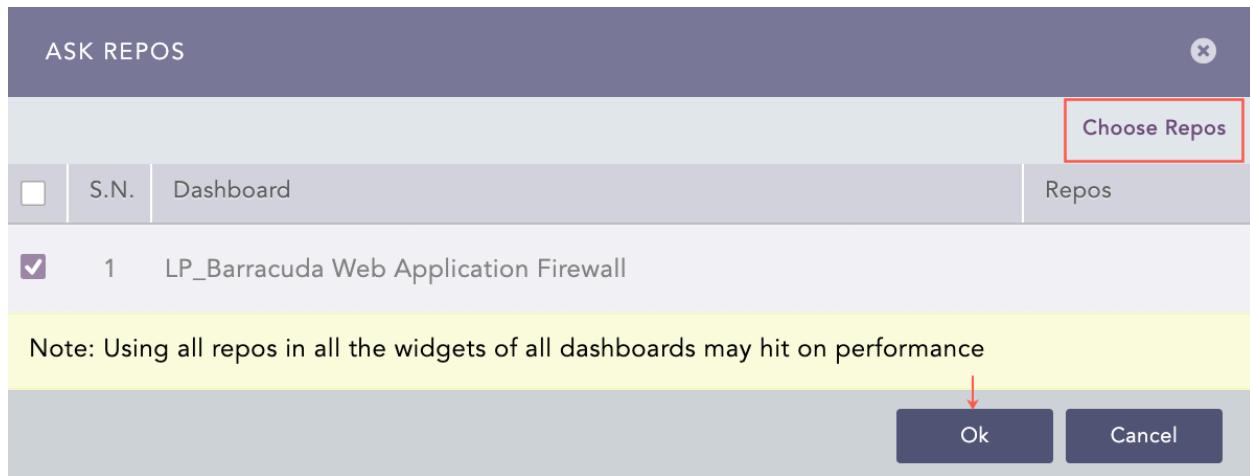


Fig. 2: Selecting Repos

5. Select the repo and click **Done**.

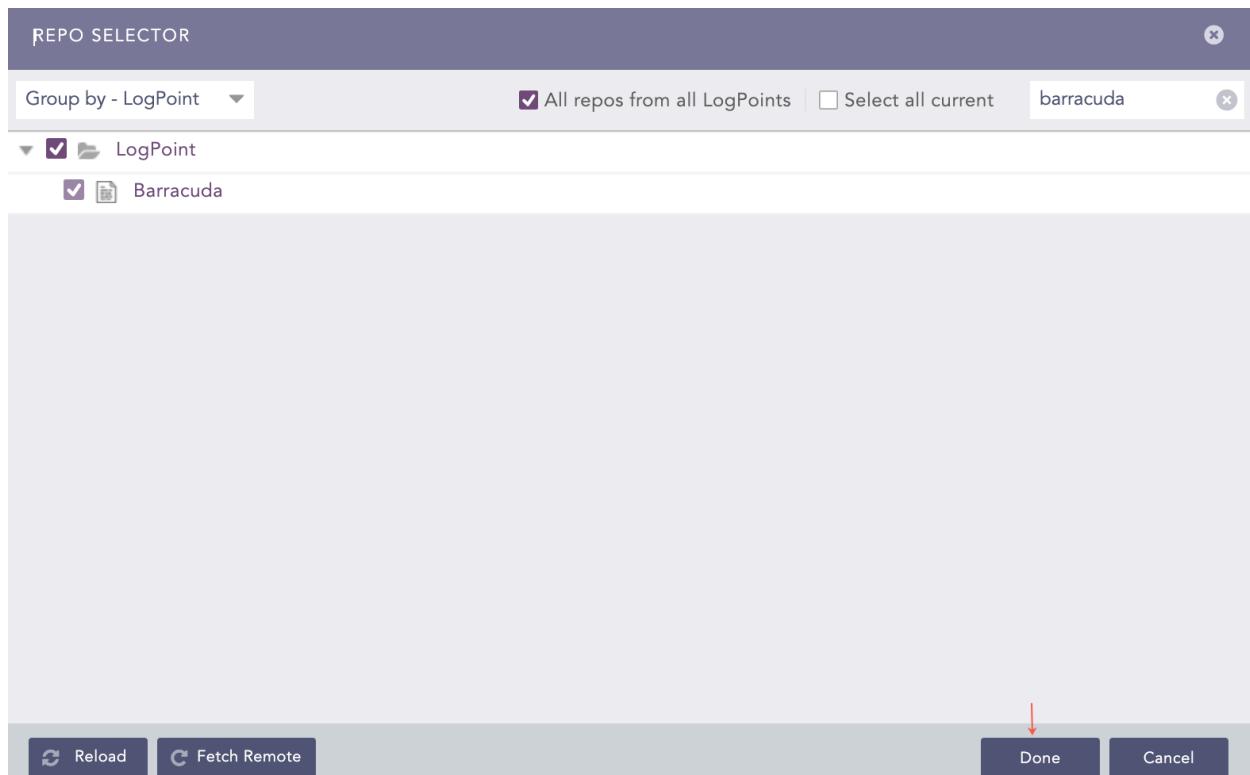


Fig. 3: Selecting Repos

6. Click **Ok**.

You can find the Barracuda dashboards under *Dashboard*.

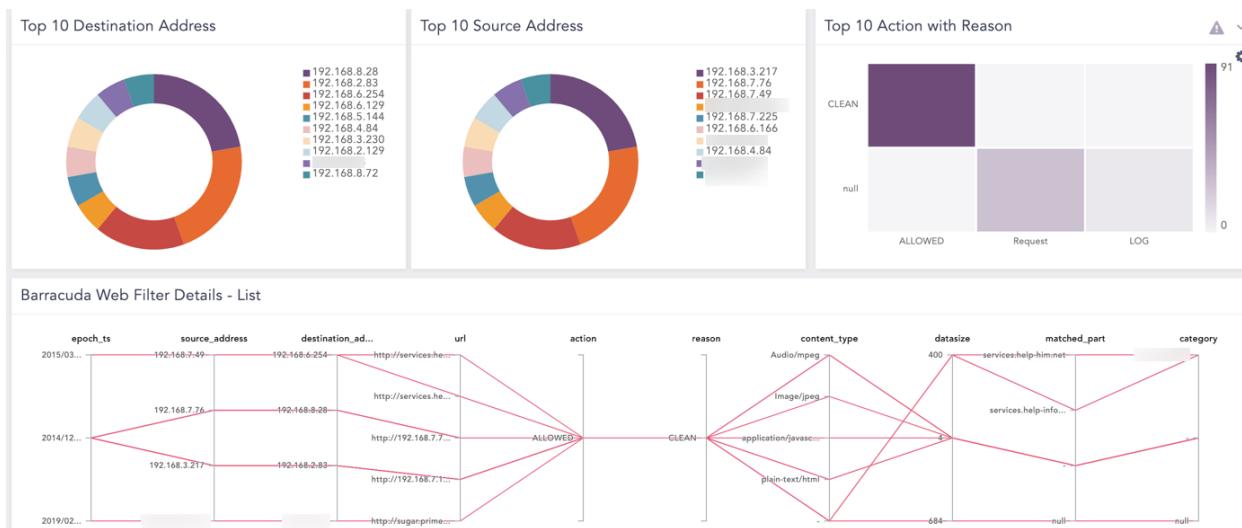


Fig. 4: Barracuda Dashboard

#### 4.1.1 Barracuda Widgets

Widgets available in *LP\_Barracuda Web Application Firewall* provide:

Widget	Description
Attack Count	The count of attacks such as the DDOS attack.
Attack Timetrend	A time trend of attacks detected by the Barracuda Web Application Firewall.
Top 10 Attack Events	An overview of the top 10 attack events detected by the Barracuda Web Application Firewall.
Top Distinct Attacks by Source Locations	An overview of the top distinct attacks based on source country, action, and destination address.
Total Attackers	The count of total attackers based on source address.
Top Actions Taken on Traffic	An overview of the top actions taken on traffic.
Top 10 Errors from Client	An overview of the top 10 fault (error) codes from clients, such as Invalid Request (status code 400), Authentication Failed (401), Not Found (status code 404), Method Not Allowed (status code 405), and Invalid Post Data (status code 415).
Top 10 Protocols	An overview of the top 10 protocols.
Injection Attack Details	A detailed overview of the injection attack based on attack and actions.
DOS Attack Details	A detailed overview of the DOS attack details based on attack and actions.

Continued on next page

Table 1 – continued from previous page

Widget	Description
Top 10 Users in Attack Events	An overview of the top 10 remote or local users whose involvement was detected during the attack events.
Attack Details	A detailed overview of the attack events by source address, source country, attack type, destination address, destination country, request method, URL, rule type, and actions.

Widgets available in *LP\_Barracuda SV Firewall* provide:

Widget	Description
Top 10 Action	An overview of the top 10 actions performed by users detected by the Barracuda Firewall.
Top 10 Mail Destinations Domain	An overview of the top 10 destination addresses or domains where mails were sent.
Top 10 Source Address	An overview of the top 10 source addresses.
Top 10 Mail Sender	An overview of the top 10 email senders.
Top 10 Mail Receiver	An overview of the top 10 email recipients.
User Login - List	A detailed overview of user logins by login timestamp, username, and actions.
Time trend of Action	A time trend of the Barracuda Firewall actions.
Top 10 Destination Address	An overview of the top 10 destination addresses.
Message Category - RECV and SCAN services	An overview of the Barracuda RECV and SCAN services with their action code, such as Allowed Message, Aborted Message, Blocked Message, Quarantined Message, and so on.
Message Category - SEND services	An overview of the Barracuda SEND services, such as Delivered Message, Rejected Message, Deferred Message, and Expired Message.
Top 15 Event Category by Reason Code	An overview of the top 15 Barracuda event categories by reason code, such as Virus, Banned Attachment, or RBL Match.
Top 10 Hosts in Barracuda Blocklist Category	An overview of the top 10 hosts in the block list category.
Top 10 Senders in Barracuda Blocklist Category	An overview of the top 10 senders in the block list category.
Top 10 Receivers in Barracuda Blocklist Category	An overview of the top 10 receivers in the blocklist category.
Top 10 Hosts in Virus Category	An overview of the top 10 hosts categorized as Virus of Barracuda RECV and SCAN services.

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Table 2 – continued from previous page

Widget	Description
Top 10 Senders in Virus Category	An overview of the top 10 senders categorized as <i>Virus</i> of Barracuda RECV and SCAN services.
Top 10 Receivers in Virus Category	An overview of the top 10 receivers categorized as <i>Virus</i> of Barracuda RECV and SCAN services.
Top 10 Receivers in Banned Attachment Category	An overview of the top 10 receivers in the <i>Band Attachment</i> category of Barracuda RECV and SCAN services.
Top 10 Senders in Banned Attachment Category	An overview of the top 10 senders in the <i>Band Attachment</i> category of Barracuda RECV and SCAN services.
Top 10 hosts in Banned Attachment Category	An overview of the top 10 hosts in the <i>Band Attachment</i> category of Barracuda RECV and SCAN services.
Top 10 host in Spam Fingerprint Found Category	An overview of the top 10 hosts in the <i>Spam Fingerprint Found</i> category of Barracuda RECV and SCAN services.
Top 10 Sender in Spam Fingerprint Found Category	An overview of the top 10 senders in the <i>Spam Fingerprint Found</i> category of Barracuda RECV and SCAN services.
Top 10 receiver in Spam Fingerprint Found Category	An overview of the top 10 receivers in the <i>Spam Fingerprint Found</i> category of Barracuda RECV and SCAN services.

Widgets available in *LP\_Barracuda Web Filter* provide:

Widget	Description
Barracuda Web Filter Details - List	A detailed list of Barracuda Web Filters activities based on timestamp, source address, destination address, URL, action, reason, content type (HTML or jpeg), data size, matched part, and category.
Top 10 Source Address	An overview of the top 10 source addresses.
Top 10 Destination Address	An overview of the top 10 destination addresses.
Top 10 Action with Reason	An overview of the top 10 actions performed by Barracuda Web Filter along with the reasons for which the actions were taken. For example, device scanned as a threat is detected.
URL Details - List	A detailed list of the frequently visited URLs based on action, reason, matched part, and category.
Top Content Type - List	A detailed list of the top website contents filtered by Barracuda Web Filters.

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Table 3 – continued from previous page

Widget	Description
Top Matched Part - List	A detailed list of the top regular expressions, domain names, or keywords that matched to a URL.
Top Matched Category - List	A detailed list of the top built-in or customized web content categories that matched with your regular expressions, domain names, or keywords.

## 4.2 Barracuda Labels

Labels available in *LP\_Barracuda NG Firewall* are:

Labels	Description
Allow	Events with the <i>Allow</i> or <i>LocalAllow</i> action.
Deny	Events with the <i>Deny</i> or <i>LocalDeny</i> action.
Drop	Events with the <i>Drop</i> and <i>LocalDrop</i> action.
Detect	Events with the <i>Detect</i> or <i>LocalDetect</i> action.
ARP	Events with the <i>ARP</i> action.
Normal, Operation	Events with the <i>Normal Operation</i> message.
Balance, Session, Idle, Timeout	Events with the <i>Balanced Session Idle Timeout</i> message.
Block, Rule	Events with the <i>Block by Rule</i> message.
Connection, Rese, Source	Events with the <i>Connection Reset by Source</i> message.
Session, Idle, Timeout	Events with the <i>Session Idle Timeout</i> message.
Connection, Reset	Events with the <i>Connection Reset by Destination</i> message.
Acknowledge, Timeout	Events with the <i>Last ACK Timeout</i> message.
TCP,Packet, Not, Active, Session	Events with the <i>TCP Packet Belongs to no Active Session</i> message.
ARP, Duplicate, MAC	Events with the <i>ARP reply duplicate and MAC differs</i> message.
ICMP, Packet, Ignore	Events with the <i>ICMP Packet is Ignored</i> message.
Connection, Timeout	Events with the <i>Connect Timeout</i> message.
Timeout	Events with the <i>Unreachable Timeout</i> message.
Block, Broadcast	Events with the <i>Block Broadcast</i> message.
Timeout	Events with the <i>Halfside Close Timeout</i> message.
Application, Control	Events with the <i>Application Control</i> message.
Detect, Not, Allow, Port	Events with the <i>Unallowed Port Protocol Detected</i> message.

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Table 4 – continued from previous page

Labels	Description
Reverse, Routing, Interface, Mismatch	Events with the <i>Reverse Routing Interface Mismatch</i> message.
Accept, Timeout	Events with the <i>Accept Timeout</i> message.
TCP, Header, Invalid	Events with the <i>TCP Header has an Invalid SEQ Number</i> message.
IPS, Warning	Events with the <i>IPS Warning</i> message.
Drop, Not, Allow, Port, Detect	Events with the <i>Drop due to Unallowed Port Protocol</i> message.
MAC, Address, Change	Events with the <i>MAC Address Change</i> message.
Local, Socket, Not, Present	Events with the <i>No Local Socket Present</i> message.
Policy, Block, URL, Category	Events with the <i>URL Category Blocked by Policy</i> message.
Block, Not, Rule, Match	Events with the <i>Block no Rule Match</i> message.
Not, Active, Session, ICMP, Packet	Events with the <i>ICMP Packet Belongs to no Active Session</i> message.
TCP, Header, Invalid	Events with the <i>TCP Header has an Invalid ACK Number</i> message.
Internal, SSL, Error	Events with the <i>Internal SSL Error</i> message.
Invalid, Synchronization, Establish, TCP, Session	Events with the <i>Invalid SYN for Established TCP Session</i> message.
Drop, TCP, RST	Events with the <i>Drop guessed TCP RST</i> message.
IPS, Drop, Log	Events with the <i>IPS Drop Log</i> message.
IPS, Alert	Events with the <i>IPS Alert</i> message.
Block, Local, Loop	Events with the <i>Block Local Loop</i> message.
Terminate, Content	Events with the <i>Terminated due to content</i> message.
IP, Header, Incomplete	Events with the <i>IP Header is Incomplete</i> message.
Request, IPS, Policy, Terminate	Events with the <i>IPS Policy Requested Termination</i> message.
Duplicate, IP, Detect, Match	Events with the <i>Duplicate IP Detection Matched</i> message.
TCP, Header, Incomplete	Events with the <i>TCP Header is Incomplete</i> message.
TCP, Header, Checksum, Invalid	Events with the <i>TCP Header Checksum is Invalid</i> message.
TF-Sync	Events with the <i>TF-Sync</i> message.
Block	Events with the <i>Block</i> or <i>LocalBlock</i> action.
Remove	Events with the <i>Remove</i> or <i>LocalRemove</i> action.
Fail	Events with the <i>Remove</i> or <i>LocalRemove</i> action.

Labels available in *LP\_Barracuda Web Filter* are:

Labels	Description
Allow	Events with the <i>ALLOWED</i> action.
Block	Events with the <i>BLOCKED</i> action.
Detect	Events with the <i>DETECTED</i> action.
Clean	Events with the <i>CLEAN</i> reason.
Virus	Events with the <i>VIRUS</i> reason.
Skyware	Events with the <i>SPYWARE</i> reason.

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CHAPTER  
**FIVE**

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## UNINSTALLING BARRACUDA

1. Go to *Settings* >> *System Settings* >> *Applications*.
2. Click the **Uninstall** icon from the **Actions** column.

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**Note:** You must remove the **Barracuda** configurations to delete it.

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## LOG SAMPLES

### Expected Log Format Sample

Baracuda Cloud Email Filter

```
<6> 2021-10-27T04:41:43Z ip-100.internal ESS91785[1]: {"message_id":"1633444894-105481-5298-10428-1", "src_ip ":"192.168.97.25", "hdr_from ":"\"Logpoint Publications\" \u003cno-reply@Logpoint.com\u003e", "account_id ":"abc123", "domain_id ":"189043", "ptr_record ":"s1.asa1.acem.com", "attachments ":null, "recipients ":[{"action ":"allowed", "reason ":"m", "reason_extra ":"m", "delivered ":"delivered", "delivery_detail ":"logpoint-edu.mail.protection.outlook.com:25:250 2.6.0 \u003c20211005141738.8382.232815220.swift@Logpointpublications. activehosted.com\u003e [InternalId=14306536080363, Hostname=BL3P223MB0161.NAMP223.PROD.OUTLOOK.COM] 116795 bytes in 0.273, 417.467 KB/sec Queued mail for delivery", "email ":"lpedraza@logpoint.edu", "taxonomy ":"none "}], "hdr_to ":"\"Leon Pedraza\" \u003c\u003clpedraza@logpoint.edu\u003e", "recipient_count ":1, "dst_domain ":"logpoint.edu", "size ":97272, "subject ":"Develop deep knowledge of faculty development", "env_from ":"bounce-529093-2847-29700-lpedraza=logpoint.edu@s1.csa1.acems3.com", "timestamp ":"2021-10-05T14:41:40+0000", "geoip ":"USA", "tls ":true}
```

### Expected Log Format Sample

Intrusion Prevention System (IPS)

```
<12>Jul 06 07:40:54 xxxxxxxx 1/sssss/ssss/box_Firewall_threat: Warning host firewall: [Request] Allow: IPS ALLIP(0) 1.1.1.1 -> 0.0.0.0:0 [|ID: 5000002 TCPIP Port or IP Address Scan]||2|Probing
```

### Expected Log Format Sample

Web Firewall Logs

```
2014-04-11 10:50:30.411 +0530 wafbox1 WF ALER PRE_1_0_REQUEST xx.xx.x.xxx 34006 xx.xx. xxx.80 global GLOBAL LOG NONE [POST /index.cgi] POST xx.xx.xxx.x /index.cgi HTTP REQ-0+RES-0 "Mozilla/5.0 (X11; Linux i686; rv:12.0) Gecko/20100101 Firefox/12.0" xx.xx.xxx.x 34005 ABC http://xx.xx.xxx.x /index.cgi
```

### Expected Log Format Sample

Access Logs

```

<134>2020-11-12 06:37:42.791 -0400 WAF1 TR 1.1.1.1 443 24.2.252.238 43662 "-" "-" GET TLSv1.
↪3 www.abc.com HTTP/1.1 200 1643 1968 0 592 1.1.1.1 443 591 "-" SERVER PROFILED
↪PROTECTED VALID /load/rave/ "-" https://www.abc.com _ga=GA1.2.757211401.1575902461;_
↪hubspotutk=xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx; __hsrc=1; _gcl_au=1.1.1890078026.1600961
↪263; nmstat=1600961274952; _fbp=fb.1.1600961263367.958342315; __hstc=211988107.
↪b036aa4d75c35f4baae31bd05bb6da9d.1575902465900.15759024659 "Mozilla/5.0 (X11; CrOS
↪x86_64 xxxx.x.x.x) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/xx.x.x.x Safari/537.
↪36" 24.2.252.238 43662 "-" "-" "-" "-" xxxxxxxxxxxx-xxxxxxxxx

```

## Expected Log Format Sample

### Audit Logs

```

2016-02-02 21:08:53.861 -0800 wafbox1 AUDIT User3 GUI 192.0.0.0 CONFIG 17 - SET web_
↪firewall_policy default url_protection_max_upload_files "5" "6" "[]"

```

## Expected Log Format Sample

### Network Firewall Logs

```

afbox1 2016-05-21 03:28:23.494 -0700 NF INFO TCP 192.0.0.0 52236 1.1.1.1 8000 DENY testac
↪MGMT/LAN/WAN interface traffic:deny policy TCPFeb 3 15:09:02 wsf STM: LB 5 00141
↪LookupServerCtx = 0xab0bb6xx

```

## Expected Log Format Sample

### Barracuda System and Firewall

```

2010-02-03 01:49:09.077 -0800 logpointbox WF ALER SQL_INJECTION_IN_PARAM 1.1.1.7 361 1.
↪1.1.20 webapp1:deny_ban GLOBAL LOG NONE "[type= "sql-injection-medium" " pattern="
↪"sql-quote" " token= "" or " " Parameter= " " address" " value= " "hi' or 1=-- " " ]" POST 1.1.1.2/
↪xxx-bin/process.xxx HTTP REQ-0+RES-0 "Mozilla/5.0 (X11; U; Linux i686 (x86_64); en-US; rv:1.8.
↪1.20) Gecko/20081217 Firefox/2.0.0.20" 1.1.1.7 39661 Bob http://1.1.1.2/xxx-bin/1.pl 11956
↪ATTACK_CATEGORY_INJECTION

```

## Expected Log Format Sample

### Barracuda Web Application Firewall CEF

```

<161>CEF:0|Barracuda|WAF|910|2002|GeoIP-Pool:WPA_Rep_Pool|1|cat=NF src=xxx.xxx.xx.xx
↪spt=57169 dst=xx.x.x.xx dpt=443 act=DENY dvchost=ABC proto=TCP rt=1531388610159
↪cs1=MGMT/LAN/WAN interface traffic:deny cs1Label=Details

```

## Expected Log Format Sample

### Barracuda NG Firewall

```

<14>Jun 15 07:52:08 LOGPOINT 1/DEBUxxx/LOGPOINT2/box_Firewall_Activity: Info
↪LOGPOINT2 Allow: type=FWD|proto=TCP|srcIF=p2.1|srcIP=xxx.xx.xxx.
↪x|srcPort=49609|srcMAC=xx:xx:xx:xx:xx:xx|dstIP=xxx.xx.x.
↪xxx|dstPort=49155|dstService=|dstIF=p1|rule=INSIDE|YNCAUDIO|WAN|continues on next page)
↪Sync|srcNAT=xxx.xx.xxx.x|dstNAT=xxx.xx.x.
↪xxx|duration=0|count=1|receivedBytes=0|sentBytes=0|receivedPackets=0|sentPackets=0|user=|protocol=|ap

```

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## Expected Log Format Sample

Barracuda Firewall

```
<14>Oct 20 11:02:51 bru02 1/GroupIT/logpoint/box_Firewall: Info logpoint firewall: [Request]
↳ Allow: type=FWD rule=Exchangeclients (00:00:00:00:00:44)TCP 1.1.1.1:50531 (port1) -> 1.1.1.
↳ 2:8034-vanxxxxxx-mgmt port3.10
```

## Expected Log Format Sample

Barracuda Web Filter

```
<164>http_scan[15983]: 1418826306 1 1.1.1.1 1.1.1.2 application/javascript 1.1.1.3 http://1.1.1.4/
↳ lp/logpoint.com/warn.xx.10918xxxxxx/lp.ab.0328.0397/lp.cd.0329.0424? &tag=0&time=&
↳ eventid=&callback=PushStreamManager_0_onmessage_1418826313069&_=1418826313069
↳ 584 BYF ALLOWED CLEAN 2 1 0 5 3 (-) 1 - 0 - 0 - - [ldap0:pp.op] http://www.abc.com/push/
```

## Expected Log Format Sample

Barracuda Spam And Virus Firewall

```
<23>scan[2716]: mail2.abc.com[192.xxx.x.xx] 1425999233-06bc853d9ab85d40001-9xRH8n
↳ 1425999233 1425999273 SCAN - xxx@uvw.yz ppp@qrs.com 0.002 0 0 - SZ:135913 SUBJ:ppo
↳ nrm-ul la acest aviz cat mai repede posibil
```

## Expected Log Format Sample

Barracuda Email Security Service

```
1140 <6> 2022-05-09T14:41:23Z ip-1.1.1.1.us-east-2.compute.internal ESSxxxxx[1]: {"message_id": "1633444868-102973-5408-2198-1", "src_ip": "1.1.1.1", "hdr_from": "\"ABC\" \u003elogpoint.com\u003e", "account_id": "ess91785", "domain_id": "189043", "ptr_record": "target.com", "attachments": null, "recipients": [{"action": "allowed", "reason": "", "reason_extra": "", "delivered": "delivered", "delivery_detail": "mail.protection.outlook.com:25:250 2.6.0", "\u003exxxxxxx6-065d-4026-bce7-xxxxxxxxxx@at.xt.local\u003e [InternalId=14328010914404, Hostname=PROD.OUTLOOK.COM] 13108 bytes in 0.050, 251.395 KB/sec Queued mail for delivery", "email": "bi@see.edu", "taxonomy": "none"}], "hdr_to": "\u003chxxxxx", "size": 2517, "subject": "Scale Ranks #1 on CRN,Äôs 2021 Annual Report Card for Edge Computing", "infrastructure": "env_from": "bounce-xxx_text-xxxxx-xxxxxx-xxxxx-xxx@bounce.etmailservices.com", "timestamp": "2022-05-09T14:41:21+0000", "geoip": "Nepal", "tls": true}
```