

How to Integrate the Barracuda CloudGen Firewall with Rhebo

https://campus.barracuda.com/doc/98219128/

Combining Rhebo network monitoring with the Barracuda CloudGen Firewall extends the passive monitoring approach to active blocking of suspicious traffic. The API-based approach ensures flexibility on possible actions. In order to block malicious traffic detected by Rhebo on the CloudGen Firewall, you must enable the API to receive that information. In addition, the Barracuda Secure Connector can also be leveraged as a sensor to collect network data in dispersed environments through Edge Computing technology. To use the Barracuda Secure Connector to collect and stream network activity to the Rhebo Controller in a dispersed environment, you must enable and configure the LXC container functionality on the Secure Connector.

Before You Begin

- Enable REST API on your Barracuda CloudGen Firewall or Firewall Control Center. For more information, see <u>REST API</u>.
- Enable Edge Computing on the Barracuda Secure Connector. For more information, see <u>Secure</u> <u>Connector Container</u>.

Step 1. Create an API Key

Create an API key for the CloudGen Firewall or Firewall Control Center.

- For information on how to configure administrative accounts on a Control Center, see: <u>How to</u> <u>Create a CC Admin to Access the REST API</u>.
- For information on how to configure administrative accounts on a stand-alone firewall, see <u>How</u> to Create a New Administrator Account.

Make a note of the created API token.

Step 2. Configure Rhebo Controller

In order to block malicious traffic discovered by the Rhebo solution, the information will be passed via API to the Barracuda CloudGen Firewall. For detailed setup instructions on the Rhebo Controller. please contact Rhebo.

- 1. Enable CEF syslog streaming.
- 2. In order to run the script, make sure that the following modules are installed on the Rhebo



```
Controller:

    python3-systemd

    python3-requests

Example Script:
import systemd.journal
import requests
import json
import time
import urllib3
urllib3.disable warnings(urllib3.exceptions.InsecureRequestWarning)
def notificationTrigger(type):
notifications = {
    'ICMP_ADDRESS_SCAN': True,
    'TCP SYN PORT SCAN': True,
    'TCP SYN ADDRESS SCAN': True,
    'UDP ADDRESS SCAN': True,
    'UDP PORT SCAN': True,
    }
return notifications.get(type, False)
BARRACUDA_IP="<BarracudaIP:8443"
BARRACUDA KEY="<API-Access-Tocken"
BARRACUDA HEADERS GET = {"X-API-Token": BARRACUDA KEY, "Content-Type":
"application/json"}
BARRACUDA HEADERS POST = {"X-API-Token": BARRACUDA KEY, "Content-Type":
"application/json", "accept": "*/*"}
BARRACUDA PARAMS POST = {"envelope": "true"}
CEF IDX NOTIFICATION TYPE = 5
CEF IDX NOTIFICATION PARAMS = 7
CEF SOURCE IP IDENTIFIER = "dvc="
def block IP(bl ip, blocked):
    hostName = 'Rhebo Malicious User ' + str(blocked)
       BARRACUDA HOST POST URL = "http://" + BARRACUDA IP +
"/rest/config/v1/forwarding-firewall/objects/networks"
       BARRACUDA HOST POST = {"name": hostName, "included": [{"entry":
    {"ip": bl ip}}]
       BARRACUDA RULE POST URL = "http://" + BARRACUDA IP +
"/rest/config/v1/forwarding-firewall/rules/lists/rhebo"
       BARRACUDA RULE POST = {
               "name": "BLOCK-Rhebo-Malicious-Host-" + str(blocked),
               "source": {
```



```
"references": hostName,
                },
                "destination": {
                     "references": "Any"
                },
                "service": {
                "references": "Any"
                },
                "action": {
                        "type": "block"
                },
                "position": {
                        "placement": "top"
                }
         }
        res post = requests.request("POST", BARRACUDA HOST POST URL,
verify=False,
params=BARRACUDA PARAMS POST, json=BARRACUDA HOST POST,
headers=BARRACUDA HEADERS POST)
    print ("res_post = " , res_post.url)
    print (res post.text)
    time.sleep(2)
    res_post = requests.request("POST", BARRACUDA_RULE_POST_URL,
verify=False,
params=BARRACUDA_PARAMS_POST, json=BARRACUDA_RULE POST,
headers=BARRACUDA HEADERS POST)
    print ("res_post = " , res_post.url)
    print (res post.text)
def parseSourceIP(CEFparams):
    return CEFparams[CEFparams.find(CEF_SOURCE_IP_IDENTIFIER) +
len(CEF_SOURCE_IP_IDENTIFIER):].split(' ')[0]
def main():
    j = systemd.journal.Reader()
        j.seek tail()
    j.get previous()
    while True:
          event = j.wait(-1)
          if event == systemd.journal.APPEND:
         for entry in j:
          if ' COMM' in entry and entry[' COMM'] == 'baldrick':
              lineList = entry['MESSAGE'].split('|')
                  if len(lineList) >= 8:
                      if notificationTrigger(lineList
[CEF IDX NOTIFICATION TYPE]):
```

IP =



```
parseSourceIP(lineList
[CEF_IDX_NOTIFICATION_PARAMS])
'))
if __name__ == '__main__':
    main()
```

block_IP (IP, IP.replace('.', '-

For detailed integration steps and customization options, please contact Barracuda Networks Technical Support or Rhebo.

Step 3. Configure the Secure Connector as Rhebo Sensor

- On the Control Center, go to? your cluster?> Cluster Settings > Configuration Templates.
- 2. Verify that the container is enabled on the related template and set to **LXC**.
- 3. **Lock** the configuration template.
- 4. Double-click to edit the configuration template.
- 5. Click + and add a new Advanced Configuration Unit.



A FSC-conditional			
Edit Script			
Configuration Units + -	Core [ExampleFscBasicfscCore]		
Core [ExampleFscBasicfscCore]	Configuration Unit Condition:	No Condition	
VPN Tunnel [ExampleFscBasicfscVpn]			
LAN Interface [ExampleFscBasicfscLan1]	Apr Allon Constantion		ance
WiFi Interface [ExampleFscBasicfscWifi]	Add Configuration Unit	Advaced	ר ^ ה∢+
Firewall [ExampleFscBasicfscFirewall]	Configuration Unit Type	Advanced Configuration	
WAN Interface [ExampleFscBasicfscWan]	Configuration Unit Condition	No Condition	
WWAN Interface [WWANpin]	conligation on a condition		
	Available Configuration Units On Ur Lo Se	Advanced Deprecate	d ince ince ince ince
	w	ОК	Cancel
	Weborr assore riasi	accuroaning, nooapna	- oscreterence
	Root Password Hash	securestring: rootpwd 🔹	Use reference
	SSH Remote Access		Use reference
	Hostname	string: hostname 🔻	Use reference
	Box DNS Domain	secureconnector.local	Use reference
	DNS Server IP	8.8.8.8 dnsserver	פ×+

- 6. In the left menu, select the configuration unit you just created.
- 7. Select **Enable Custom Script** and set the script to mirror the traffic from related interfaces to container:

o iptables -t mangle -A PREROUTING -i eth0 -j TEE --gateway
<containerIP>



Edit	Script				
Configuration Units		+ -	Advanced Configuration [Advaced]		
Core [ExampleFscBasicfscCore] VPN Tunnel [ExampleFscBasicfscVpn]		Configuration Unit Condition:	No Condition		
LAN Interface [ExampleFscBasicfscl	.an1]	Enable Persistent Logging		Use reference
WiFi Interface [ExampleFscBasicfsc\	Wifi]	Enable USB Mass Storage Support		Use reference
Firewall [Exampl	leFscBasicfscFirewall	1			
WAN Interface	[ExampleFscBasicfsc	:Wan]	Syslog Streaming	_	_
WWAN Interfac	ce [WWANpin]		Enable Syslog Streaming		Use reference
Advanced Conf	Advanced Configuration [Advaced]		Syslog Streaming Target		Use reference
			Custom Script		
			Enable Custom Script		Use reference
			The Script to run	iptables t mangle -A PREROUTING i eth	Use reference
Click? OK .					

9. Click Send Changes and?Activate.

Step 4. Install the Secure Connector Container

- 1. Go to **Control > Firmware Update**.
- 2. Modify *justin.yaml* within the container package <u>*Rhebo_container.tgz*</u> to match your environment.
- 3. Upload the sensor software *Rhebo_container.tgz* to your Secure Connector(s).
- 4. Install the container.

?For more information, see?<u>Secure Connector Container</u>.

Barracuda CloudGen Firewall



Figures

- 1. sc_conf_unit.png
- 2. sc_conf_script.png

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