

DefenseProX Version 10.x

010010101010

Training Lab Manual Configure Blocklist and Allowlist

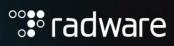


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Overview

The Blocklist comprises the traffic that the device always blocks without inspection. You use the Blocklist as policy exceptions for security policies.

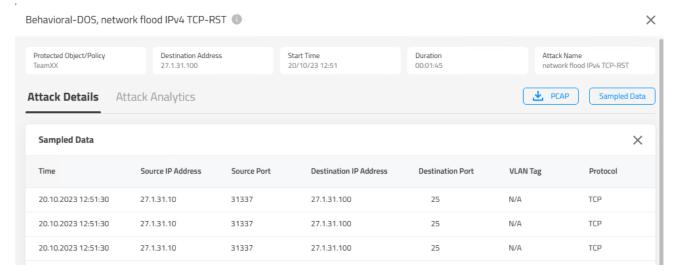
The Allowlist determines the traffic that is exempt from DefensePro security inspection.

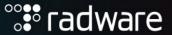
An Allowlist rule can use explicit values or predefined classes to classify the traffic. The classes are displayed in the Classes tab.

Preparations

In order to prepare for the next exercise, please complete the following:

- 1. In Cyber Controller, select Security Operations → Security Settings. Select and edit the TeamXX policy.
- 2. Enable BDoS Protection and click Submit.
- 3. Go to the attacker and launch a TCP RST attack (Network Attacks → Floods → Single Source → TCP → RST Attacks, destination IP 27.1.31.100)
- 4. Find out the source IP and destination port of the attack by examining the attack in the **Detection Events**. (In this example it is 27.1.31.10 and 25 respectively, however in your case it might differ).

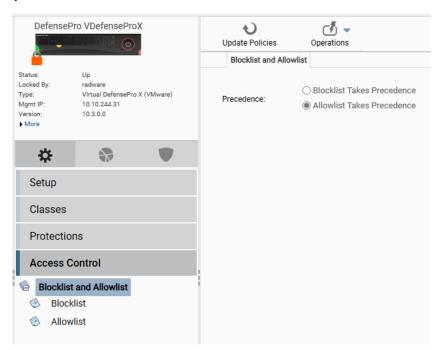




Setup Blocklist and Allowlist

Block- and Allowlists are not part of the Cyber Controller protection policy and will be configured at the Access List part of the system configuration.

- Select the Configuration perspective.
- 2. In Access Control → Blocklist and Allowlist select which one takes precencense.
- 3. By default Default Allowlist Takes Precedence.



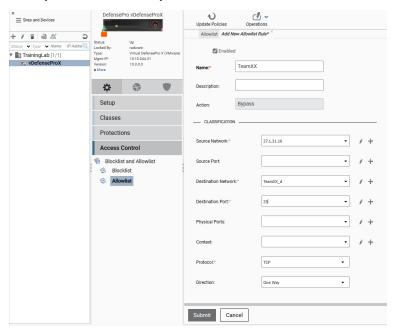
Configure Allowlist

Configure Allowlist using DefensePro configuration

- 1. Select the Configuration → Access Control → Blocklist and Allowlist → Allowlist.
- 2. To add or modify an Allowlist rule, do one of the following:
 - a. To add a rule, click + (Add) button
 - b. To edit a rule, double-click the entry in the table.
- 3. Configure Allowlist rule parameters.
 - a. Check Enabled
 - b. Name: **TeamXX** (where XX are your initials)
 - c. Source Network: <IP from preparations section> (example: 27.1.31.10)
 - d. Destination Network: **TeamXX_d** (select existing network where XX are your initials)
 - e. Destination Port: <port from the preparations section> (example: 25)
 - f. Protocol: TCP
- 4. Click Submit.



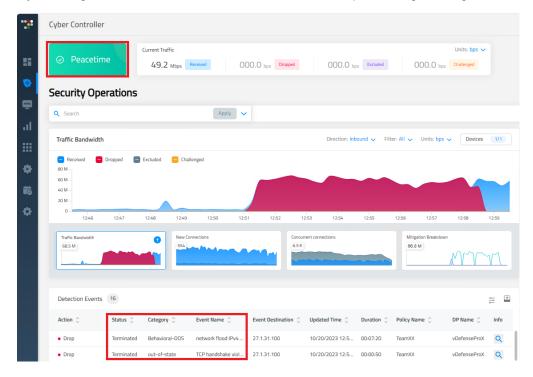
5. Click Update Policies Required.



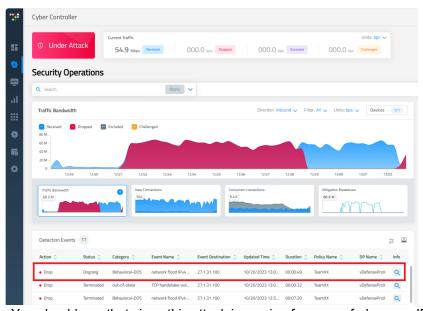


Test the Configuration

Once you configured the Allowlist, the DefensePro should stop detecting the single source RST attack.



- 1. Go to the attacker and stop the attack.
- Launch a TCP RST attack (Network Attacks → Floods → Multiple Sources → TCP → RST Attacks, destination IP 27.1.31.100)



- 3. You should see that since this attack is coming from spoofed source IPs it is detected and mitigated.
- 4. At Attacker Raptor Stop the attack.

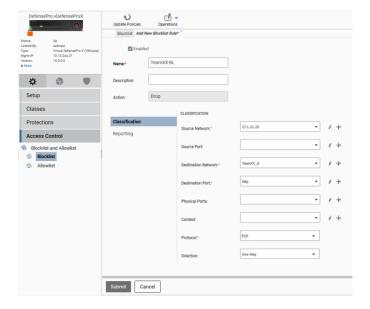


Configure Blocklist

Configure Blocklist using DefensePro configuration

Before you begin, be sure to stop JMeter app generating legitimate traffic from a legitimate client.

- 1. Select the Configuration → Access Control → Blocklist and Allowlist → Blocklist.
- 2. To add or modify an Blocklist rule, do one of the following:
 - a. To add a rule, click + (Add) button
 - b. To edit a rule, double-click the entry in the table.
- 3. Configure Blocklist rule **Classification** parameters.
 - a. Check Enabled
 - b. Name: **TeamXX-BL** (where XX are your initials)
 - c. Source Network: **27.1.31.20** (IP of the legitimate client)
 - d. Destination Network: **TeamXX_d** (select existing network where XX are your initials)
 - e. Destination Port: http
 - f. Protocol: TCP
- 4. Click Submit.
- 5. Click Update Policies Required.





◆ PCAP

Physical Port

Sampled Data

Total Packet Count

938

Test the Configuration

Once you configured the Blocklist, go to the Legitimate Client

- 1. Open a browser in the Legitimate Client
- 2. URL: http://target.mylab.inside
- 3. Notice that browser times out.
- 4. Check the Detection Events at the Real-Time Monitoring dashboard.
- 5. See as well the attack details:

Attack Details

Risk

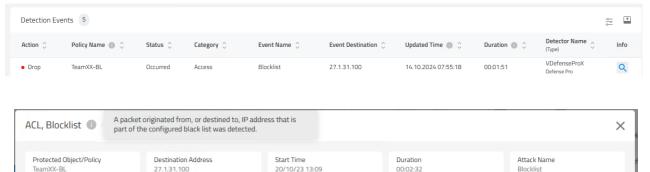
Low

VLAN

Additional Attack Attributes

Radware ID

MPLS RD





Action Type

Packet Type

Drop

Attack ID

278-1697710392

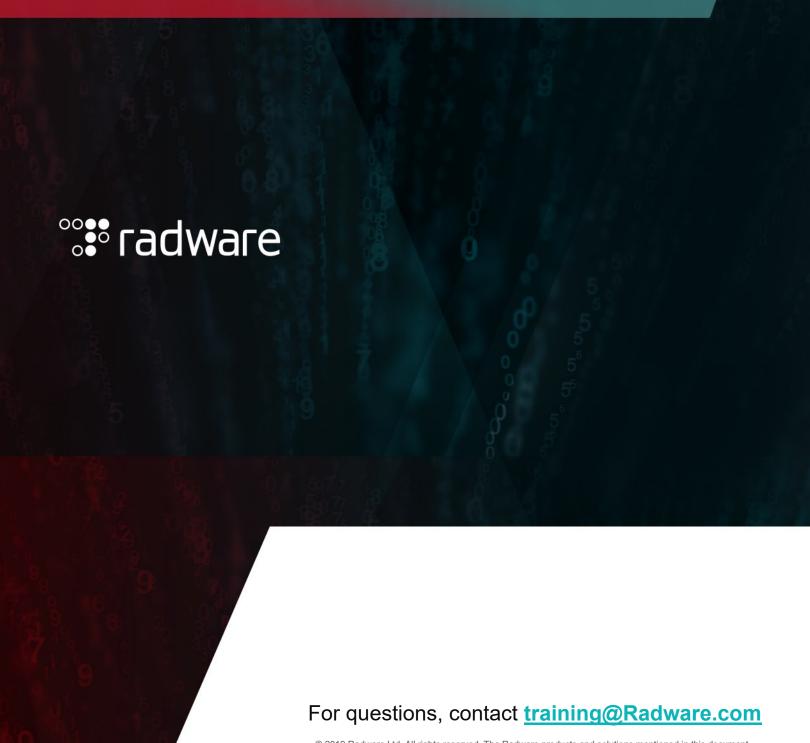
Open a browser in the Legitimate Client and notice the page is loading.

Direction (In/Out)

Source Port

Export and save configuration file as dp8-BlockAllow-config.txt.

Attack Analytics



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