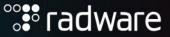


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Objectives

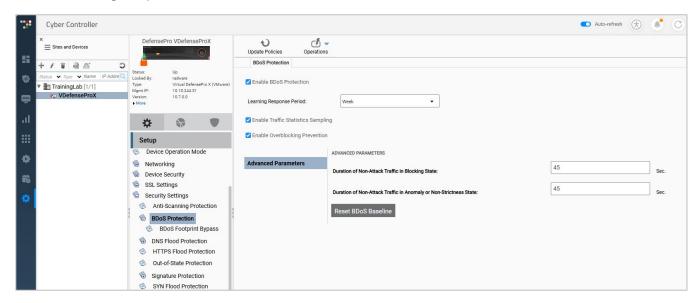
After reviewing the BDoS training module and completing this lab, you should be able to configure and monitor Behavioral DoS (BDoS) protection.

Overview

Radware DefensePro can be configured to protect against Behavioral DoS flood attacks that misuse network bandwidth resources including: TCP Floods, UDP floods, ICMP floods, IGMP floods and fragmented attacks. Radware's Network Behavioral Analysis (NBA) module employs patented behavioral-based, real-time signature technology. It creates baselines of normal network, application, and user behavior; then analyzes traffic in real-time to create signatures to mitigate attacks.

Global Setup Configuration

- 1. Access DefensePro via Cyber Controller.
- 2. Select the DefensePro Configuration perspective
- 3. In the Setup section, select Security Settings
- 4. In the BDoS Protection tab, verify that Enable BDos Protection checkbox is checked
- 5. For Learning Response Period select: Week

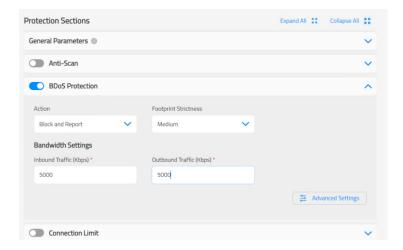


6. Click Submit button to save changes.

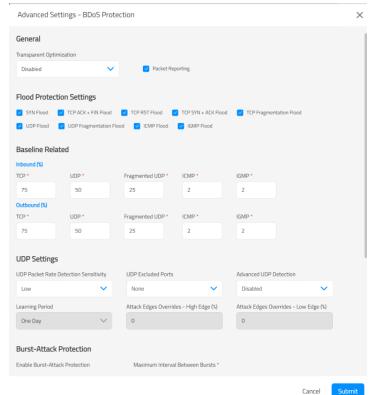


Edit BDoS Protection

- 1. Select the **Security Operations** in Cyber Controller.
- 2. Highlight existing **TeamXX** policy and click **pencil** icon to edit.
- 3. Expand the BDoS Protection and edit the inbound and outbound traffic to 5000 Kbps.



4. Click on **Advance Settings**. Review the settings. There is no need to change the defaults in this lab.



5. Click Submit in Advanced Settings and Submit again in the Edit Policy.



6. You should see a Success message in the bottom right.



7. Open Alerts Table and watch changes.

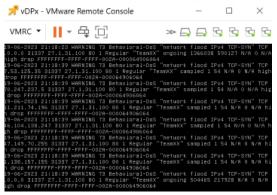
Test and Monitor the Configuration

Open the Attacker machine and send a TCP Flood Attack.

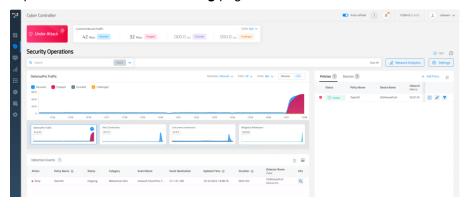
- 1. Access **Attacker**-PC select and use the **Raptor Attacker** to launch attacks. Once window is selected you can use your mouse or cursor arrow to navigate. Confirm by pressing ← or click on **<Select>** or **<OK>** buttons
- 2. Select Network Attacks → Floods → Multiple Sources → TCP → SYN Attack.
- 3. Verify Destination IP address: 27.1.31.100 then <OK>
- 4. Window eth0 at Attack-PC display now outgoing traffic (TX) from the vDP.

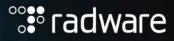
After the attack is initiated from the Attack-PC, you should see traps in the CLI/Syslog. To view traps,

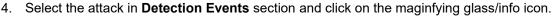
1. Open **vDP Console** tab in mRemoteNG.

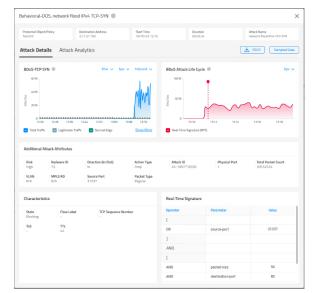


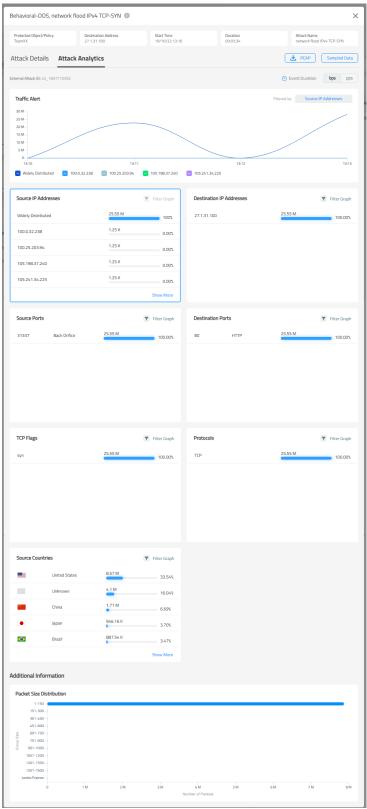
- 2. In Cyber Controller, select the **Security Operations** → **Real-Time Monitoring** perspective.
- Explore the Real-Time Monitoring page.





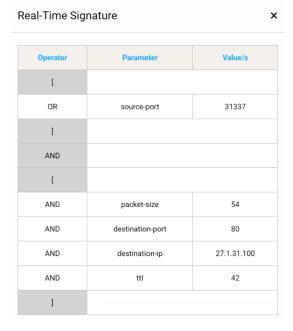






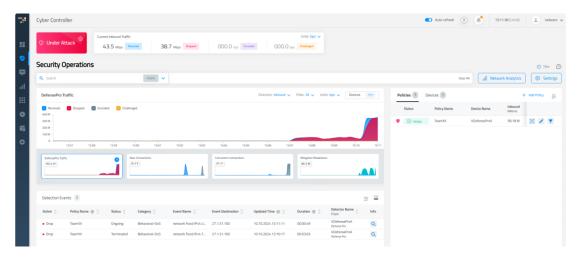


5. Click on the red dot in BDoS Attack Life Cycle graph to show Real-Time Signature (RTS)



Use Raptor to send an UDP Flood Attack

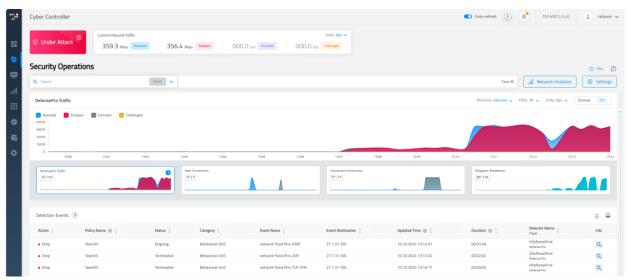
- 1. Access Attacker-PC Raptor main menu.
- 2. Stop the current TCP SYN Attack.
- 3. Select Network Attacks → Floods → Multiple Sources → UDP → Data Flood.
- Verify Destination IP address: 27.1.31.100
 Soon after the attack is initiated from the Attack-PC, you'll see traps in the CLI/Syslog.
- 5. Wait a few minutes. Click **Stop** button.
- 6. Use Cyber Controller to View UDP Flood Attack.
 - a. Select the **Security Operations > Real-Time Monitoring** and explore the new attack.



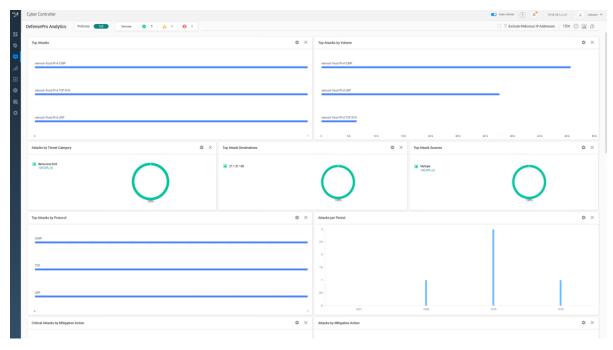


Use Raptor to Send ICMP Flood Attack.

- Access Attacker-PC Raptor main menu and select Network Attacks → Floods → Multiple Sources → ICMP →
 Echo Request Flood.
- Verify Destination IP address: 27.1.31.100
 Soon after the attack is initiated from the Attack-PC, you'll see traps in the CLI/Syslog.
- 3. Wait a few minutes. Click **Stop** button.
- 4. In Cyber Controller monitor the attack details as already done for the TCP and UDP floods.
 - a. To see more details click on the event with the and you can drill down to see all the attack information



5. Explore the Analytics AMS → DefensePro Analytics dashboard.



- 6. Do not forget to stop the attack after completing this lab.
- 7. Save the configuration as dpX-BDOSLab-config.

