Monitoring Active and Recent Connections

https://campus.barracuda.com/doc/13306421/

To monitor network sessions or connections, view the following pages from the **BASIC** tab:

- **Active Connections** – Lists all of the open and established sessions on the appliance.
- **Recent Connections** – Lists all of the connections that were established on the Barracuda NextGen X-Series Firewall or that were trying to access the firewall.

You can find the information that you are interested in by filtering the lists. For a description of the displayed fields and information on how to add filters, click **Help** on the product page.

Active Connections

The **BASIC > Active Connections** page lists all of the open and established sessions on the appliance. You can terminate any session by clicking on the red x (✖). If QoS is enabled for a connection, you can manually override the bandwidth policy for the connection by clicking on the arrow next to it and selecting a different policy from the drop-down menu.

In the **State** column, the following arrows tell you if the connection is established or closing:

Arrow	Status
	One-way traffic.
	Connection established (TCP). Two-way traffic (all other).
	Connection could not be established.
	Closing connection.

To view the status of a connection, hover over the arrow for a status code. For more information about these status codes, see the Status Code Overview.

Recent Connections

The **BASIC > Recent Connections** page lists all of the connections that were established on the X-Series Firewall or that were trying to access the firewall. Use the information on this page for troubleshooting.

In the **Action** column, the following graphics tell you what action was performed for each connection:

Graphic	Action
	IPS Rule Applied
	Allowed
	Terminated
	Failed
	Blocked
	Dropped

To see if there is still incoming or outgoing traffic for a specific session, click **Refresh** and then look at its **Last** or **Count** value.

Sometimes, you might need to view ARP-Update traffic to troubleshoot in more detail. To display ARP-Update info, select the **Include ARPs** check box.

To delete the whole history, click **Flush Entries**.

Status Code Overview

The following table provides more details on the status codes that you might see on the **BASIC > Active Connections** page.

Status Code	Origin	Description
FWD-NEW	TCP Packet Forwarding Outbound	Session is validated by the firewall rule set, no traffic was forwarded so far.
FWD-FSYN-RCV	TCP Packet Forwarding Outbound	The initial SYN packet received from the session source was forwarded.
FWD-RSYN-RSV	TCP Packet Forwarding Outbound	The session destination answered the SYN with a SYN/ACK packet.
FWD-EST	TCP Packet Forwarding Outbound	The SYN/ACK packet was acknowledge by the session source. The TCP session is established.
FWD-RET	TCP Packet Forwarding Outbound	Either source or destination are retransmitting packets. The connection might be dysfunctional.
FWD-FFIN-RCV	TCP Packet Forwarding Outbound	The session source sent a FIN datagram indicating to terminate the session.
FWD-RLACK	TCP Packet Forwarding Outbound	The session destination answered the FIN packet with a FIN reply and awaits the last acknowledgement for this packet.
FWD-RFIN-RCV	TCP Packet Forwarding Outbound	The session destination sent a FIN datagram indicating to terminate the session.

FWD-FLACK	TCP Packet Forwarding Outbound	The session source answered the FIN packet with a FIN reply and awaits the last acknowledgement for this packet.
FWD-WAIT	TCP Packet Forwarding Outbound	The session was reset by one of the two participants by sending a RST packet. A wait period of 5 seconds will silently discard all packet belonging to that session.
FWD-TERM	TCP Packet Forwarding Outbound	The session is terminated and will shortly be removed from the session list.
IFWD-NEW	TCP Packet Forwarding Inbound	Session is validated by the firewall rule set, no traffic was forwarded so.
IFWD-SYN-SND	TCP Packet Forwarding Inbound	A SYN packet was sent to the destination initiating the session (Note that the session with the source is already established).
IFWD-EST	TCP Packet Forwarding Inbound	The destination replied the SYN with a SYN/ACK. The session is established.
IFWD-RET	TCP Packet Forwarding Inbound	Either source or destination are re transmitting packets. The connection might be dysfunctional.
IFWD-FFIN-RCV	TCP Packet Forwarding Inbound	The session source sent a FIN datagram indicating to terminate the session.
IFWD-RLACK	TCP Packet Forwarding Inbound	The session destination answered the FIN packet with a FIN reply and awaits the last acknowledgement for this packet.
IFWD-RFIN-RCV	TCP Packet Forwarding Inbound	The session destination sent a FIN datagram indicating to terminate the session.
IFWD-FLACK	TCP Packet Forwarding Inbound	The session source answered the FIN packet with a FIN reply and awaits the last acknowledgement for this packet.
IFWD-WAIT	TCP Packet Forwarding Inbound	The session was reset by one of the two participants by sending a RST packet. A wait period of 5 seconds will silently discard all packet belonging to that session.
IFWD-TERM	TCP Packet Forwarding Inbound	The session is terminated and will shortly be removed from the session list.
PXY-NEW	TCP Stream Forwarding Outbound	Session is validated by the firewall rule set, no traffic was forwarded so far.
PXY-CONN	TCP Stream Forwarding Outbound	A socket connection to the destination is in progress of being established.
PXY-ACC	TCP Stream Forwarding Outbound	A socket connection to the source is in progress of being accepted.
PXY-EST	TCP Stream Forwarding Outbound	Two established TCP socket connection to the source and destination exist.
PXY-SRC-CLO	TCP Stream Forwarding Outbound	The socket to the source is closed or is in the closing process.

PXY-DST-CLO	TCP Stream Forwarding Outbound	The socket to the destination is closed or is in the closing process.
PXY-SD-CLO	TCP Stream Forwarding Outbound	The source and the destination socket are closed or in the closing process.
PXY-TERM	TCP Stream Forwarding Outbound	The session is terminated and will shortly be removed from the session list.
IPXY-NEW	TCP Stream Forwarding Inbound	Session is validated by the firewall rule set, no traffic was forwarded so far.
IPXY-ACC	TCP Stream Forwarding Inbound	A socket connection to the source is in progress of being accepted.
IPXY-CONN	TCP Stream Forwarding Inbound	A socket connection to the destination is in progress of being established.
IPXY-EST	TCP Stream Forwarding Inbound	Two established TCP socket connection to the source and destination exist.
IPXY-SRC-CLO	TCP Stream Forwarding Inbound	The socket to the source is closed or is in the closing process.
IPXY-DST-CLO	TCP Stream Forwarding Inbound	The socket to the destination is closed or is in the closing process.
IPXY-SD-CLO	TCP Stream Forwarding Inbound	The source and the destination socket are closed or in the closing process
IPXY-TERM	TCP Stream Forwarding Inbound	The session is terminated and will shortly be removed from the session list.
UDP-NEW	UDP Forwarding	Session is validated by the firewall rule set, no traffic was forwarded so far.
UDP-RECV	UDP Forwarding	Traffic has been received from the source and was forwarded to the destination.
UDP-REPL	UDP Forwarding	The destination replied to the traffic sent by the source.
UDP-SENT	UDP Forwarding	The source transmitted further traffic after having received a reply from the destination.
UDP-FAIL	UDP Forwarding	The destination or a network component on the path to the destination sent an ICMP indicating that the request cannot be serviced.
ECHO-NEW	ECHO Forwarding	Session is validated by the firewall rule set, no traffic was forwarded so far.
ECHO-RECV	ECHO Forwarding	Traffic has been received from the source and was forwarded to the destination.
ECHO-REPL	ECHO Forwarding	The destination replied to the traffic sent by the source.
ECHO-SENT	ECHO Forwarding	The source sent more traffic after racing a reply from the destination.
ECHO-FAIL	ECHO Forwarding	The destination or a network component on the path to the destination sent an ICMP indicating that the request cannot be serviced.

OTHER-NEW	OTHER Protocols Forwarding	Session is validated by the firewall rule set. No traffic was forwarded so far.
OTHER-RECV	OTHER Protocols Forwarding	Traffic has been received from the source and was forwarded to the destination.
OTHER-REPL	OTHER Protocols Forwarding	The destination replied to the traffic sent by the source.
OTHER-SENT	OTHER Protocols Forwarding	The source sent more traffic after receiving a reply from the destination.
OTHER-FAIL	OTHER Protocols Forwarding	The destination or a network component on the path to the destination sent an ICMP indicating that the request cannot be serviced.
LOC-NEW	Local TCP Traffic	A local TCP session was granted by the local rule set.
LOC-EST	Local TCP Traffic	The local TCP session is fully established.
LOC-SYN-SND	Local TCP Traffic	A Local-Out TCP session is initiated by sending a SYN packet.
LOC-SYN-RCV	Local TCP Traffic	A Local-In TCP session is initiated by receiving a SYN packet.
LOC-FIN-WAIT1	Local TCP Traffic	An established local TCP session started the close process by sending a FIN packet.
LOC-FIN-WAIT2	Local TCP Traffic	A local TCP session in the FIN-WAIT1 state received an ACK for the FIN packet.
LOC-TIME-WAIT	Local TCP Traffic	A local TCP session in the FIN-WAIT1 or in the FIN-WAIT2 state received a FIN packet.
LOC-CLOSE	Local TCP Traffic	An established local TCP session is closed.
LOC-CLOSE-WAIT	Local TCP Traffic	An established local TCP session received a FIN packet.
LOC-LAST-ACK	Local TCP Traffic	Application holding an established TCP socket responded to a received FIN by closing the socket. A FIN is sent in return.
LOC-LISTEN	Local TCP Traffic	A local socket awaits connection request (SYN packets).
LOC-CLOSING	Local TCP Traffic	A local socket in the FIN_WAIT1 state received a FIN packet.
LOC-FINISH	Local TCP Traffic	A local TCP socket was removed from the internal socket list.

Figures

1. red.png
2. one-way traffic.PNG
3. two-way traffic.PNG
4. unestablished.PNG
5. closing.PNG
6. IPS rule.png
7. allow.png
8. term.png
9. fail.png
10. block.png
11. drop.png