

Botnet Screenshots

Tölvusamskipti

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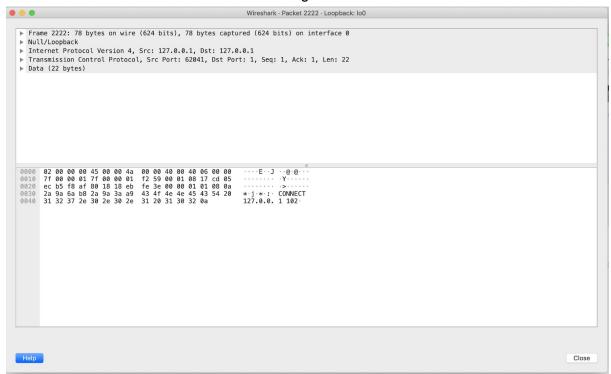
Below are screenshots that prove that all our server commands and client commands work as they are described in the README.

CLIENT COMMAND: CONNECT <IP> <PORT>:

The picture below shows a client telling a server(101) to connect to another server(102)

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This is the wireshark trace of the client sending the CONNECT command to the server.

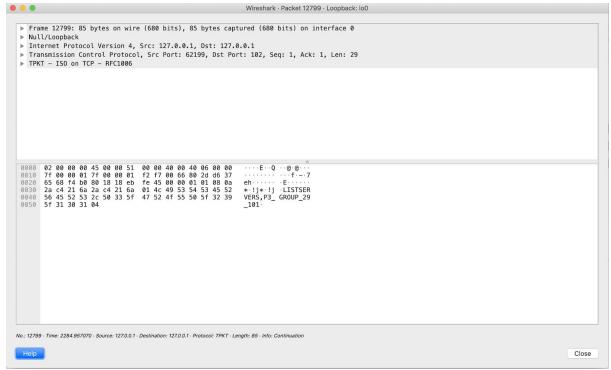


SERVER COMMAND: LISTSERVERS, < MY_GROUP_ID>

The picture below shows the two servers connected after sending a LISTSERVERS,<MY_GROUP_ID> to each other.

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Below is a picture that shows the wireshark trace of one of the servers sending LISTSERVERS,<MY_GROUP_ID> to the other.



Below is a picture that shows the wireshark trace communication of one of the servers sending the response to LISTSERVERS,<MY_GROUP_ID> which is SERVERS,......

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Wireshark - Packet 12803 - Loopback: IoO

| Frame 12883: 98 bytes on wire (784 bits), 98 bytes captured (784 bits) on interface 0
| NutL/Loopback | Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1
| Transmission Control Protocol, Src Port: 62199, Dst Port: 102, Seq: 30, Ack: 30, Len: 42
| TPKT - ISO on TCP - RFC1006

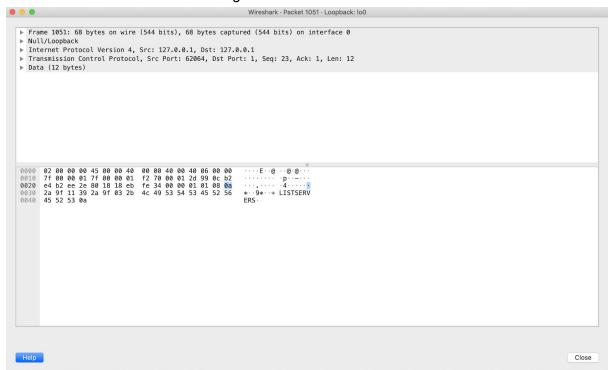
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CLIENT COMMAND: LISTSERVERS

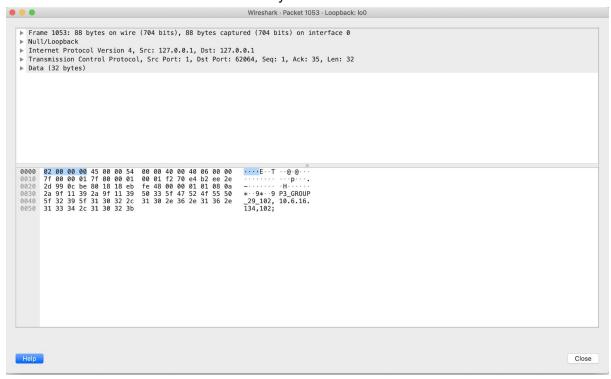
Below is a picture that shows a client sending a LISTSERVERS command to a server he is connected to and the server responds with a list of servers he is directly connected to.

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Below we can see the client sending a LISTSERVERS command to the server.

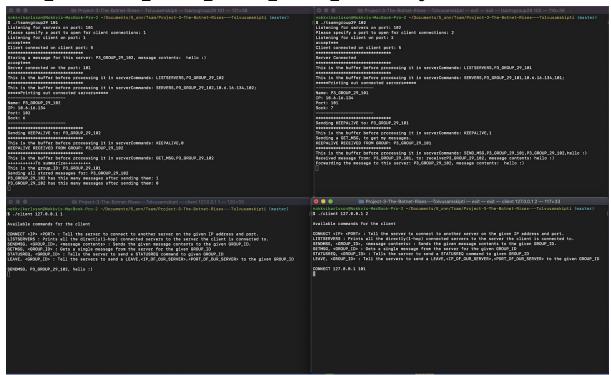


Below we can see the servers responding to the LISTSERVER client command and sending back a list of all the servers that are directly connected to him.

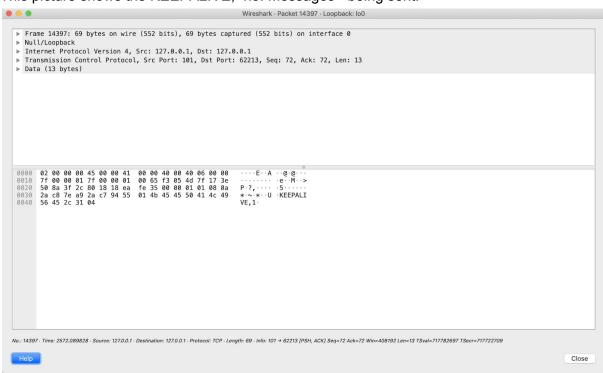


SERVER COMMANDS: KEEPALIVE,<no. messages> & GET_MSG,<GROUP_ID> & SEND_MSG,<FROM_GROUP_ID>,<TO_GROUP_ID>,<No. messages>.

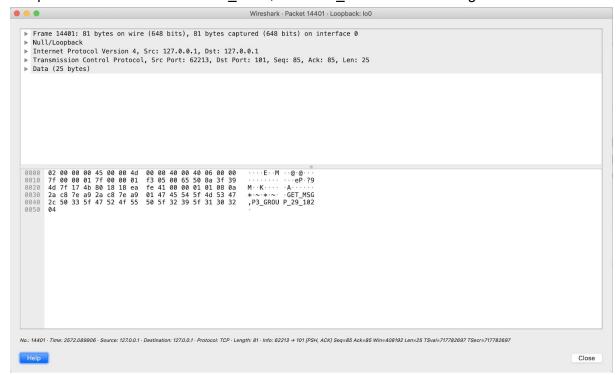
The picture below shows server number 101 sending a KEEPALIVE,<1> to server number 102 and then 102 sends a GET_MSG,<server_number_102> back to server 101 to retrieve the message 101 is storing. When server 101 receives the GET_MSG command he sends a SEND_MSG,<FROM_GROUP_ID>,<TO_GROUP_ID>,<message> back.



This picture shows the KEEPALIVE, < no. Messages > being sent.

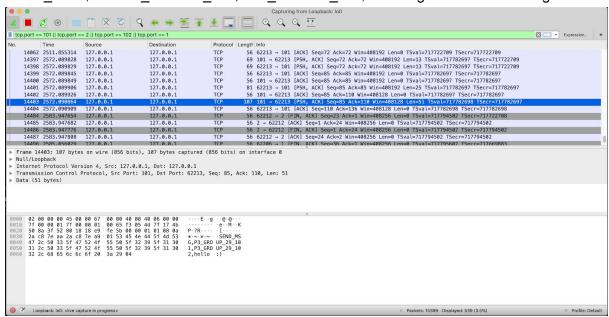


The picture below shows the GET_MSG,<GROUP_ID> command being sent.



The picture below shows the

SEND_MSG,<FROM_GROUP_ID>,<TO_GROUP_ID>,<message> command being sent.

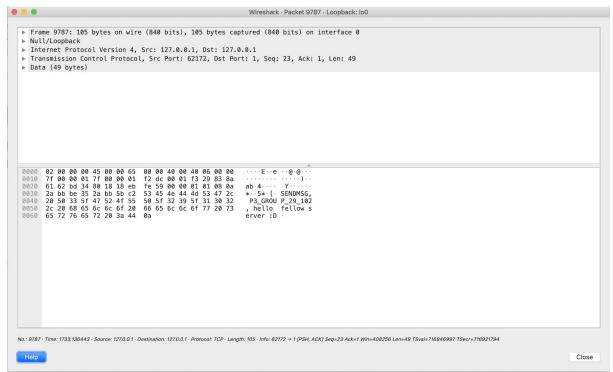


CLIENT COMMAND: SENDMSG, <TO_GROUP_ID>, <message>

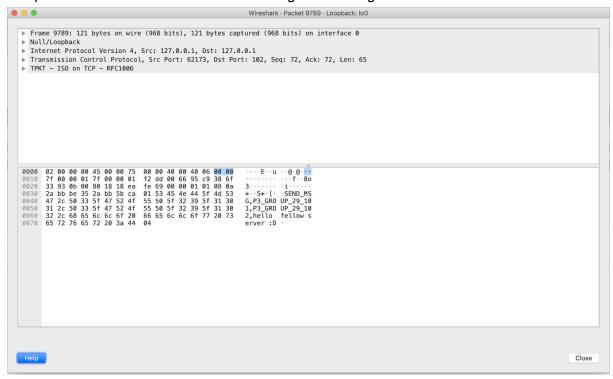
The picture below shows a client sending SENDMSG, <GROUP_ID_OF_SERVER_102> to server 101 which server 101 sends to server 102.

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This picture shows the SENDMSG, <GROUP_ID_OF_SERVER_102> command being sent from the client to server 101.

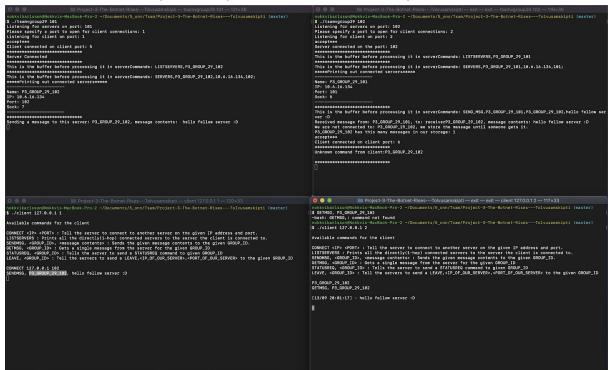


The picture below shows server 101 sending the message to 102.

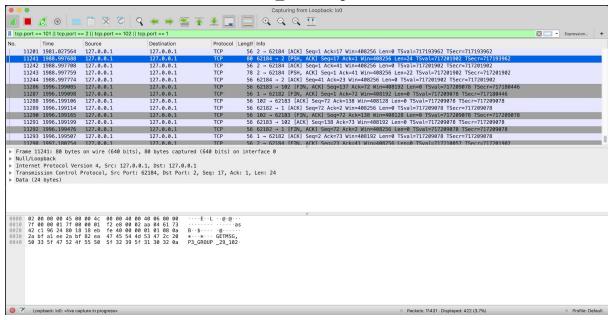


CLIENT COMMAND: GETMSG, <GROUP_ID>

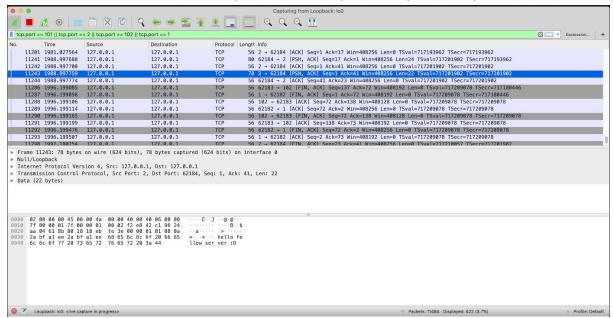
The picture belows shows a client send a GETMSG, <GROUP_ID> to a server and the server sends back a single message back to the client for the given GROUP_ID.



Here we can see the GETMSG, <GROUP_ID> being sent.



Here we can see the server sending the client a single message for the given GROUP_ID

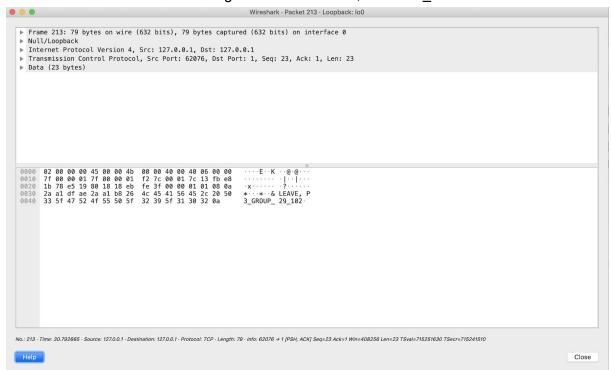


CLIENT COMMAND: LEAVESERVER, < GROUP_ID> & SERVER COMMAND: LEAVESERVER, < IP>, < PORT>

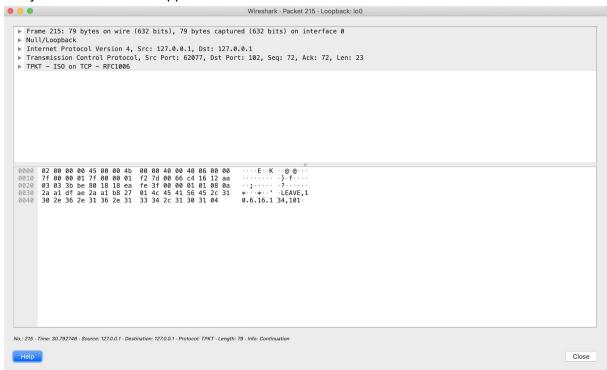
The picture belows shows a client sending a LEAVESERVER,<GROUP_ID> to server 101 telling the server to drop connection to 102 and send him a



Here we can see the client sending a LEAVESERVER, < GROUP_ID>.



Here we can see the server sending a LEAVESERVER,<IP>,<PORT> to the other server to notify him that he has dropped the connection.

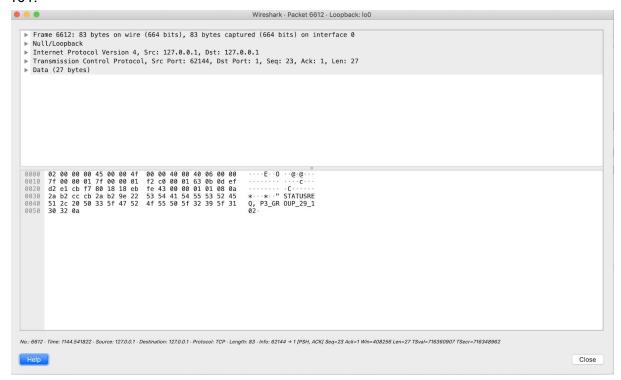


CLIENT COMMAND: STATUSREQ, <GROUP_ID> & SERVER COMMAND: STATUSREQ, <GROUP_ID>

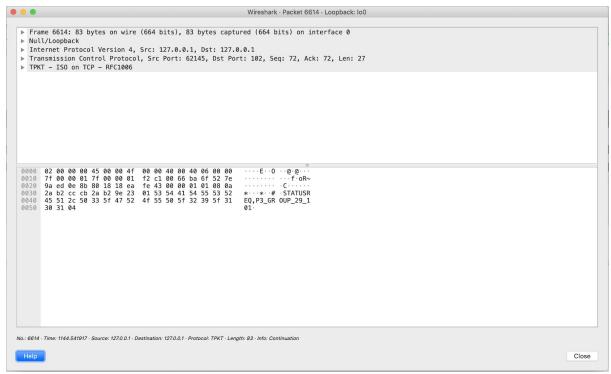
Here below we can see the client send a STATUSREQ, <GROUP_ID> command to server number 101 then he sends STATUSREQ, <GROUP_ID> message to the other server which is number 102. Server number 102 then responds to server number 101 with a STATUSRESP,....

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Below we can see the client sending a STATUSREQ, <GROUP_ID> command to server 101.



Here we see server number 101 sending a STATUSREQ,<GROUP_ID> command to server number 102.



Here we see server number 102 send a STATUSRESP,... back to server number 101.

