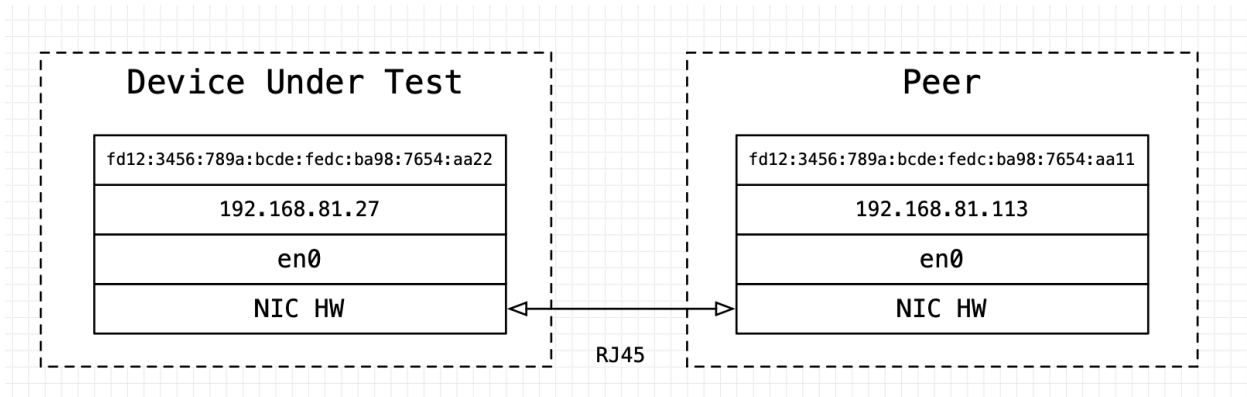


## Example packet captures for mDNSResponder TCP Keepalive (TCPKA)



- Peer and Device Under Test (DUT) are connected with an RJ45 cable
- mDNS RR Buffer captured on DUT
- Packet capture taken on Peer

### Test Procedure

1. DUT initiates TCP connection to Peer
  2. DUT performs system sleep
  3. While DUT is sleeping, DUT's NIC HW continues to send TCP KA messages (and wait for replies)
  4. Peer sends a PSH on connection
  5. DUT's NIC HW wakes the system.
-

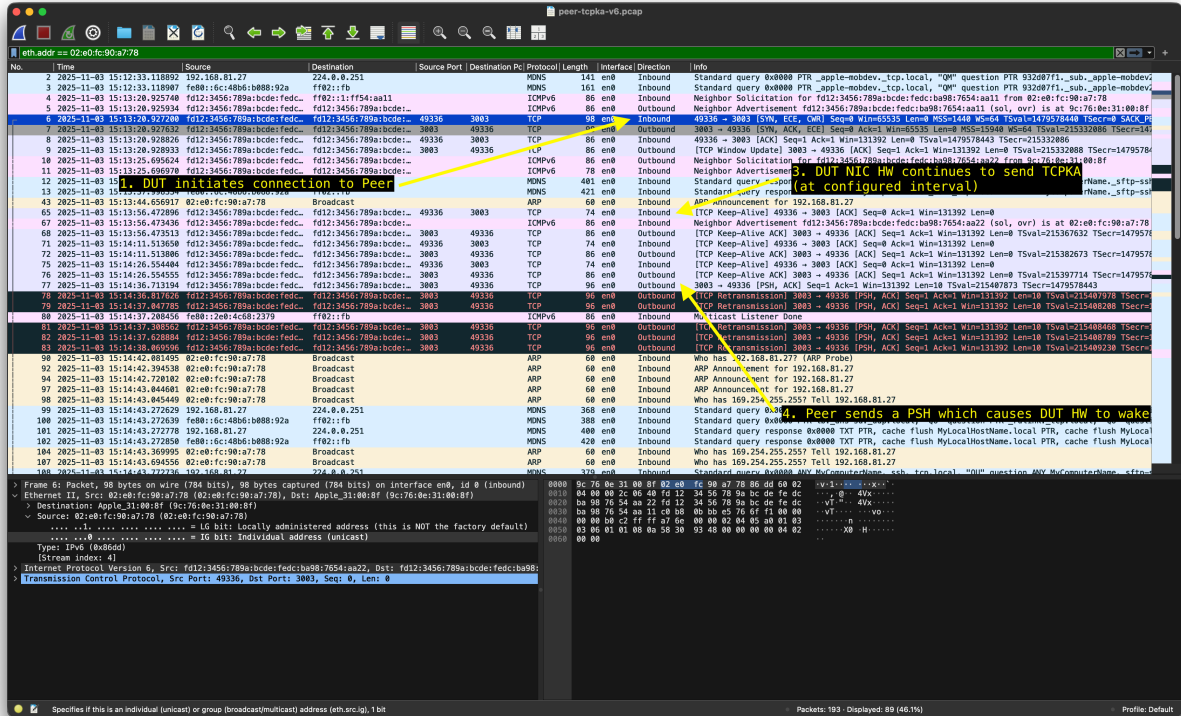
## IPv4 TCPKA

- ref: peer-tcpka-v4.pcap
- ref: tcpka-v4.rr

[illegible]

# IPv6 TCPKA

- ref: peer-tcpka-v6.pcap
- ref: tcpka-v6.rr



ip6b182ea-dhcp34 ndns-tcpka-captures-for-usb[1] ✓ Python3 ./parse-rr-bin.py ./tcpka-v6.rr 39

idx	name	type	class	ttl	rd_len
0	MyComputerName_ssh_tcp.local.	TXT	0x0001	4500	0x0001
1	services_dns-udp.local.	PTR	0x0001	4500	0x0002
2	ssh_tcp.local.	PTR	0x0001	4500	0x0002
3	MyComputerName_device-info_tcp.local.	PTR	0x0001	4500	0x0002
4	MyComputerName_sftp-ssh_tcp.local.	TXT	0x0001	4500	0x0001
5	services_dns-udp.local.	PTR	0x0001	4500	0x0002
6	sftp-ssh_tcp.local.	PTR	0x0001	4500	0x0002
7	MyComputerName_rfb_tcp.local.	TXT	0x0001	4500	0x0001
8	services_dns-udp.local.	PTR	0x0001	4500	0x0002
9	rfb_tcp.local.	PTR	0x0001	4500	0x0002
10	services_MyLocalHostName.local.	TXT	0x0001	4500	0x0002
11	MyComputerName_ssh_tcp.local.	SRV	0x0001	4500	0x0000
12	MyComputerName_sftp-ssh_tcp.local.	SRV	0x0001	4500	0x0000
13	MyComputerName_rfb_tcp.local.	SRV	0x0001	4500	0x0000
14	C7618185-6116-44E7-8945-36E3B3A3E588_remotepairing_tcp.local.	TXT	0x0001	4500	0x00059
15	services_dns-udp.local.	SRV	0x0001	4500	0x0002
16	remotepairing_tcp.local.	PTR	0x0001	4500	0x0002
17	C7618185-6116-44E7-8945-36E3B3A3E588_remotepairing_tcp.local.	SRV	0x0001	4500	0x0000
18	0x0007_KeepAlive_dns-udp.local.	NULL	0x0001	4500	0x0000

SRV prio 0, weight 0, port 22, target MyLocalHostName.local.  
SRV prio 0, weight 0, port 22, target MyLocalHostName.local.  
SRV prio 0, weight 0, port 2200, target MyLocalHostName.local.  
SRV prio 0, weight 0, port 41052, target MyLocalHostName.local.  
t=15 c=38 m=12 d=12:3456:789a:bcd:fedc:ba98:7654:aa11 l=49336 r=3003 m=9C:76:0E:31:00:8F s=3849744369 a=1458925572 w=2053