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WIRESHARK ASSIGNMENT 3

1. Attacker IP address: 10.10.2.2
   Victim IP address: 10.10.1.1
   User IP address: 10.10.3.2
   OVS IP address: 10.10.3.1

2. Port numbers are the way the transport layer recognizes which packet belongs to what process at the end systems.
   They're used to let the process-to-process delivery work; but ICMP, from a functional point of view, is not a transport layer protocol.
   ICMP is a messaging protocol at the network layer (on top of the IP; but not really in the transport layer), it's got a lot of responsibilities but none of them has anything to do with process-to-process delivery, so having a port number there wouldn't make any sense.

3.

| Wireshark sequence number	Corresponding reply packet
8	9
10	None
11	12
14	15
16	None

4.

	Type number	Code Number
Request packet	8	0
Reply packet	0	0

Checksum, sequence number and identifier fields are take two bytes each.

5. When there is no router between source and destination adress, TTL value is equal to 64 which is start value of IP TTL. When there is one router, TTL value decreases to 63.

6.
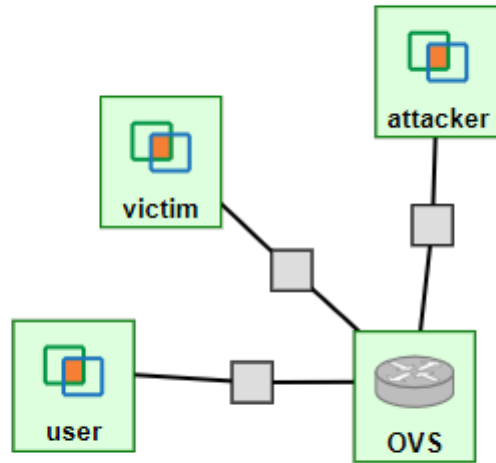
Aggregate **Illinois InstaGENI's** Resources:

Node #1:

Status	Client ID	Component ID	Expiration	Type	Hostname
READY	victim	pc1	2019-01-11T10:25:43.000Z	emulab-xen	victim.Wireshark-e2036390.ch-geni-net.instageni.illinois.edu
Login	ssh eksert@pc1.instageni.illinois.edu -p 30205 ssh e2036390@pc1.instageni.illinois.edu -p 30205 ssh eronur@pc1.instageni.illinois.edu -p 30205 ssh alperen@pc1.instageni.illinois.edu -p 30205				

Interfaces		MAC		Layer 3	
interface-0	pc1:lo0	02a9db6d82a7		ipv4: 10.10.1.1	

Node #2:

Status	Client ID	Component ID	Expiration	Type	Hostname
READY	attacker	pc1	2019-01-11T10:25:43.000Z	emulab-xen	attacker.Wireshark-e2036390.ch-geni-net.instageni.illinois.edu
Login	ssh eksert@pc1.instageni.illinois.edu -p 30203 ssh e2036390@pc1.instageni.illinois.edu -p 30203 ssh eronur@pc1.instageni.illinois.edu -p 30203 ssh alperen@pc1.instageni.illinois.edu -p 30203				

Interfaces		MAC		Layer 3	
interface-3	pc1:lo0	02189e6aedc6		ipv4: 10.10.2.2	

Node #3:

Status	Client ID	Component ID	Expiration	Type	Hostname
READY	user	pc1	2019-01-11T10:25:43.000Z	emulab-xen	user.Wireshark-e2036390.ch-geni-net.instageni.illinois.edu
Login	ssh eksert@pc1.instageni.illinois.edu -p 30204 ssh e2036390@pc1.instageni.illinois.edu -p 30204 ssh eronur@pc1.instageni.illinois.edu -p 30204 ssh alperen@pc1.instageni.illinois.edu -p 30204				

Interfaces		MAC		Layer 3	
interface-5	pc1:lo0	02576816bdd8		ipv4: 10.10.3.2	

Node #4:

Status	Client ID	Component ID	Expiration	Type	Hostname
READY	OVS	pc1	2019-01-11T10:25:43.000Z	emulab-xen	OVS.Wireshark-e2036390.ch-geni-net.instageni.illinois.edu

Login	
	ssh_eksert@pc1.instageni.illinois.edu_-p_30202 ssh_e2036390@pc1.instageni.illinois.edu_-p_30202 ssh_eronur@pc1.instageni.illinois.edu_-p_30202 ssh_alperen@pc1.instageni.illinois.edu_-p_30202

Interfaces		MAC	Layer 3
interface-1	pc1:lo0	025c9b85a6ac	ipv4: 10.10.1.2
interface-2	pc1:lo0	02ae4bd9d55f	ipv4: 10.10.2.1
interface-4	pc1:lo0	02f582fc694a	ipv4: 10.10.3.1

Link #1:

Client ID	Endpoint #0	Endpoint #1
link-0	interface-0	interface-1

Link #2:

Client ID	Endpoint #0	Endpoint #1
link-1	interface-2	interface-3

Link #3:

Client ID	Endpoint #0	Endpoint #1
link-2	interface-4	interface-5