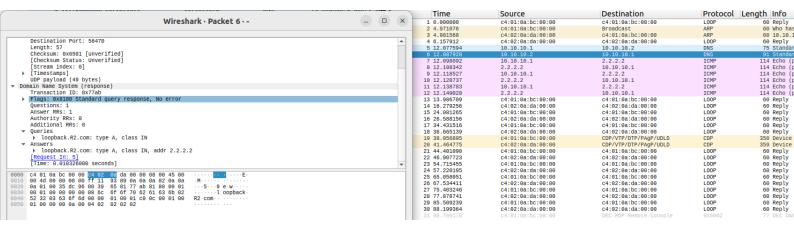
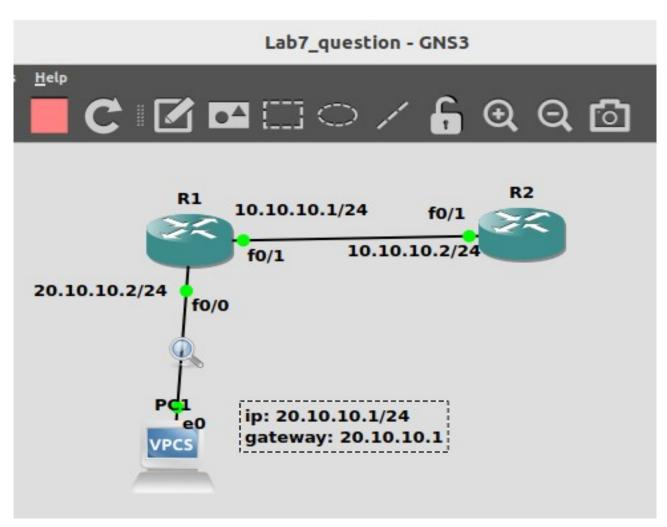
LAB 7>Study of Domain Name Server

Configure the below topology to setup DNS server. R1 will use R2 as DNS server to make DNS resolutions.



QUESTION>



COMMANDS:>

PC1> ip 20.10.10.1 255.255.255.0 20.10.10.2

R1#config t

R1(config)#interface f0/1

R1(config-if)#ip address 10.10.10.1 255.255.255.0

R1(config-if)#no shut

R1(config-if)#do wr

R1(config-if)#end

R2#config t

R2(config)#interface f0/1

R2(config-if)#ip address 10.10.10.2 255.255.255.0

R2(config-if)#no shut

R2(config-if)#do wr

R2(config-if)#end

R2#config t

R2(config)#ip dns server

R2(config)#ip host server.R2.com 10.10.10.2

R2(config)#no shut

R2(config)#end

R1#config t

R1(config)#ip route 0.0.0.0 0.0.0.0 10.10.10.2

R1(config)#end

R2#config t

R2(config)#ip route 20.10.10.0 255.255.255.0 10.10.10.1

R2(config)#end

PC1> ping 10.10.10.2

PC1> ip dns 10.10.10.2

PC1> ping server.R2.com

```
Frame 3: 89 bytes on wire (712 bits), 89 bytes captured (712 bits) on interface -, id 0
Ethernet II, Src: c4:01:0f:49:00:00 (c4:01:0f:49:00:00), Dst: Private_66:68:00 (00:50:79:66:68:00)
Internet Protocol Version 4, Src: 10.10.10.2, Dst: 20.10.10.1
User Datagram Protocol, Src Port: 53, Dst Port: 52222
▼ Domain Name System (response)
    Transaction ID: 0xd639
    Lagrage Oxdes System (Protocol Version Ver
                  ▶ Flags: 0x8180 Standard query response, No error
                                  Questions: 1
                                  Answer RRs: 1
                                  Authority RRs: 0
                                  Additional RRs: 0
                   ▼ Queries
                                      ▼ server.R2.com: type A, class IN
                                                                     ver.K2.com: type A, ctass I
Name: server.R2.com
[Name Length: 13]
[Label Count: 3]
Type: A (Host Address) (1)
                                                                      Class: IN (0x0001)
                  ▼ Answers
                                      ▼ server.R2.com: type A, class IN, addr 10.10.10.2
                                                                      Name: server.R2.com
Type: A (Host Address) (1)
Class: IN (0x0001)
                                                                        Time to live: 10 (10 seconds)
                                                                      Data length: 4
                                  Address: 10.10.10.2

[Request In: 2]

[Time: 0.022630000 seconds]
```

