Cisco Packet Tracer.   MAC-   IP-

1:   **PDU**
2:   **PDU**

(PDU).
.
(PDU),   .

1:   PDU

.   3 ,
1.
.   PDU   172.16.31.5   172.16.31.2.
a.   **172.16.31.5**   **Command Prompt (**   **).**
.   **ping 172.16.31.2.**
.   **ping 172.16.31.2**.
(PDU)   **172.16.31.5.**
.   (PDU)   **OSI**
Model   Outbound PDU Layer .
o MAC-   : **000C:85CC:1DA7**
o MAC-   : **00D0:D311:C788**
o IP-   : **172.16.31.5**
o IP-   : **172.16.31.2**
o   : **172.16.31.5**
.   **Capture/Forward (**   **),**   .
(PDU)   .
1 .   ,
(PDU)   .
(PDU)   ,
.

	MAC-	MAC-	IPv4-	IPv4-
172.16.31.5	000C.85CC.1DA7	00D0:D311:C788	172.16.31.5	172.16.31.2
Switch1	000C.85CC.1DA7	00D0:D311:C788	172.16.31.5	172.16.31.2
HUB	000C.85CC.1DA7	00D0.D311.C788	172.16.31.5	172.16.31.2
172.16.31.2	00D0.D311.C788	000C.85CC.1DA7	172.16.31.2	172.16.31.5

2.   **(PDU)**
-
,   1,   .
)   -   172.16.31.2   172.16.31.3
)   -   172.16.31.4   172.16.31.5

	MAC-	MAC-	IPv4-	IPv4-
172.16.31.2	0060.7036.2849	000C:85CC:1DA7	172.16.31.2	172.16.31.3
HUB	0060.7036.2849	000C:85CC:1DA7	172.16.31.2	172.16.31.3
SWITCH1	0060.7036.2849	000C:85CC:1DA7	172.16.31.2	172.16.31.3
172.16.31.3	000C:85CC:1DA7	0060.7036.2849	172.16.31.3	172.16.31.2

	MAC-	MAC-	IPv4-	IPv4-
172.16.31.4	00D0.D311.C788	000C.CF0B.BC80	172.16.31.4	172.16.31.5
Switch1	00D0.D311.C788	000C.CF0B.BC80	172.16.31.4	172.16.31.5
172.16.31.5	000C.CF0B.BC80	00D0.D311.C788	172.16.31.5	172.16.31.4

(Realtime).

2: **PDU**

.   ,
                                                    .
                    MAC-   .

1:   **(PDU)**
                            172.16.31.5   **10.10.10.2.**
a.   **172.16.31.5**   **Command Prompt (   ).**
    .   **ping 10.10.10.2.**
    .   **ping 10.10.10.2**.
                    (PDU)   **172.16.31.5.**
    .   (PDU)
            Outbound PDU Layer (PDU).

*)   MAC-   : 00D0:BA8E:741A
*)MAC-   : 00D0:D311:C788
*)   IP-   : 172.16.31.5
*)   IP-   : 10.10.10.2
*)   : 172.16.31.5

                        MAC-   ,   ? Router
        .   **Capture/Forward (   ),**
                                                    (PDU)   .
                                    1 .   ,
            (PDU)   .
                        (PDU)   172.16.31.5
        ,   .

	MAC-	MAC-	IPv4-	IPv4-
172.16.31.5	00D0.BA8E.741A	00D0:D311:C788	172.16.31.5	10.10.10.2
1	00D0:BA8E:741A	00D0:D311:C788	172.16.31.5	10.10.10.2
	0060.2F84.4AB6	00D0:588C:2401	172.16.31.5	10.10.10.2
Switch0	0060:2F84:4AB6	00D0:588C:2401	172.16.31.5	10.10.10.2
	—	—	172.16.31.5	10.10.10.2
10.10.10.2	00D0:588C:2401	0060:2F84:4AB6	10.10.10.2	172.16.31.5

.

1. ?
, Ethernet- , Ethernet-
2. (PDU)?
.
3. **Hub ( )** - ?

4. **Hub ( )** MAC- IP- ?

5. - , , ?
, , .   ,

6. - MAC- IP- ?

7. OSI **Hub ( ) Access Point ( )?**
(1), (2)
8. **Hub ( ) Access Point ( )**
(PDU), «X»?

9. MAC- **PDU Details (PDU)**
— ?

10. MAC- ?
(arp)
11. MAC- ?
,

12. (PDU),
«X»?

13. (PDU) 10 172
, MAC- .
?

14. MAC- , 00D0:BA?

15. MAC- ?

16. , , IPv4- -
(PDU)?

17. - (*pong*), IPv4-
?
,

18.   IPv4-   ?
    , IP
19.   IP-   ?
20.   IPv6-   IPv4-
    ,   ?
             (IPv6   )