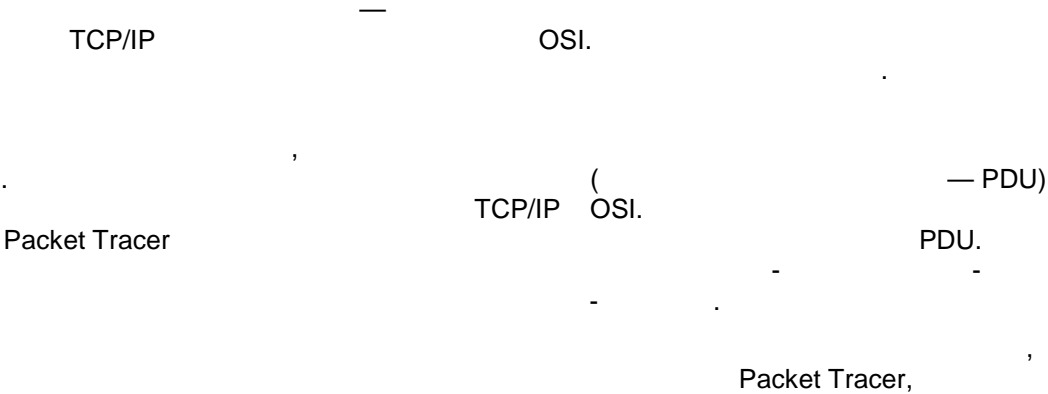


Packet Tracer -

TCP/IP    OSI

- 1.        HTTP-
- 2.

TCP/IP

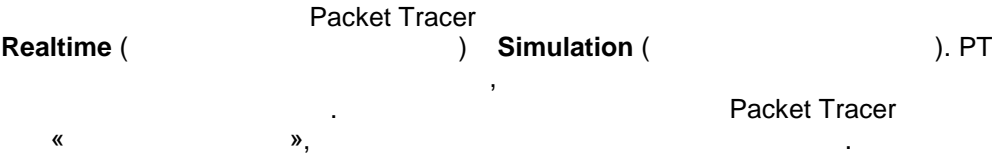


- 1.        HTTP-

1

Packet Tracer (PT)  
HTTP.

1:



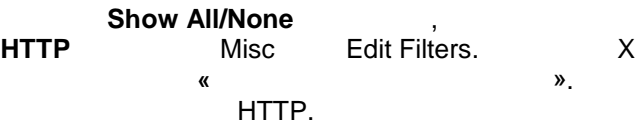
a.



1) HTTP



2)





2. - (HTTP).

- a. Web Client ( - )  
 Desktop ( ), Web Browser,  
 URL www.osi.local Go.  
 Capture/Forward ( / ).  
 Capture/Forward

## Web Server

You have successfully accessed the home page for Web Server.

Event List ( ) > Type column

( ).

Event List.

PDU Information at Device: Web Client ( PDU :

PDU Details ( PDU), : OSI Model ( OSI) Outbound

PDU Details ( PDU). , Inbound

OSI Model Inbound PDU Details .

OSI Model tab.

Out Layers

Layer 7.

Layers ( ) Out Layers ( )?

In

1. The server sends back a HTTP reply to the client.

Dst 4 «Out Layers»?

1026

Dest. IP 3 «Out Layers»?

192.168.1.1

2 «Out Layers»?

Layer 2: Ethernet II Header  
0001.96A9.401D >> 0060.47CA.4DEE

Outbound PDU Details ( PDU).

PDU, TCP/IP.

Ethernet II  
2

OSI Model. Outbound

PDU Details

DEST MAC (MAC-  
Ethernet II

) SRC MAC (MAC-  
PDU Details

)  
OSI Model

Layer 2,

IP PDU Details OSI  
? ?

Model,

– IP.

TCP PDU Details

OSI Model ,  
?

HTTP PDU Details? C  
OSI Model?

[www.osi.local](http://www.osi.local). Уровень приложения

. Type Event List.  
 1 ( ).  
 . HTTP Type Event List  
 : In Layers Out Layers.  
 In Layers .  
 ,  
 ,  
 ,  
 In Layers Out Layers ,  
 ,  
 ,  
 Inbound PDU Details ( PDU).  
 PDU.  
 Info.  
 ?  
 1 .  
 2. TCP/IP  
 2 Packet  
 Tracer TCP/IP.  
 1.  
 a. PDU.  
 . Event List Filters > Visible Events ( >  
 ) Show All/None.  
 ?  
 TCP/IP.  
 (ARP) MAC-  
 DNS ( , www.osi.local) IP- TCP  
 ,  
 . Packet  
 Tracer 35 ( ).  
 . DNS Type. OSI  
 Model PDU Detail OSI  
 Model Layer 7 In Layers Out  
 Layers , ("1. The DNS client sends a DNS  
 query to the DNS server." [DNS- DNS- ])  
 ,  
 . Outbound PDU Details ( PDU).  
 NAME: DNS QUERY?  
 www.osi.local  
 . DNS Info .  
 PDU?  
 Web Server

**ADDRESS:**

## DNS ANSWER

## Inbound PDU Details?

TTL

## HTTP

## TCP

4

## OSI

**Model ( OSI).**

**4 5**

## In Layers    Out Layers?

1. The device tries to make a TCP connection to 192.168.1.254 on port 80.
2. The device sets the connection state to SYN\_SENT.
3. TCP accepts a window size up to 65535 bytes.
4. TCP adds Maximum Segment Size Option to the TCP SYN header with Maximum Segment Size equal to 1460 bytes.
5. The device sends a TCP SYN segment.
6. Sent segment information: the sequence number 0, the ACK number 0, and the data length 24.

**TCP,**

**(ESTABLISHED).**

**TCP.**

4

OSI

**Model (                      OSI).**

**In Layers    Out Layers.**

(4).

1. TCP accepts a window size up to 16384 bytes.
2. TCP adds Maximum Segment Size Option to the TCP SYN-ACK header with Maximum Segment Size equal to 536 bytes.
3. The device sends a TCP SYN+ACK segment.
4. Sent segment information: the sequence number 0, the ACK number 1, and the data length 24.

**ACK, .**

**(LAN).**

### . Layer 4

**OSI Model.)**

**Packet Tracer,**  
**?».**

1027

## DNS-

53