

# Задание №5

## Метод Post

\*Adapter for loopback traffic capture

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	The RTT to ACK the Window	Calculated window size	Bytes in flight	Info
18	2.494066	genuine-sof...	genuine-sof...	HTTP	192	256	2619648	148	GET /students HTTP/1.1
22	2.557188	genuine-sof...	genuine-sof...	HTTP/1.1	656	256	2619648	612	HTTP/1.1 200 OK, JSON (application/json)
29	2.559962	genuine-sof...	genuine-sof...	HTTP	194	256	2619648	150	GET /students/1 HTTP/1.1
35	2.565280	genuine-sof...	genuine-sof...	HTTP/1.1	304	256	2619648	260	HTTP/1.1 404 NOT FOUND, JSON (application/json)
45	2.568210	genuine-sof...	genuine-sof...	HTTP/1.1	210	256	2619648	368	POST /students HTTP/1.1, JSON (application/json)
50	2.573576	genuine-sof...	genuine-sof...	HTTP/1.1	363	256	2619392	319	HTTP/1.1 201 CREATED, JSON (application/json)
59	2.577689	genuine-sof...	genuine-sof...	HTTP/1.1	183	256	2619648	139	PUT /students/4 HTTP/1.1, JSON (application/json)
65	2.582329	genuine-sof...	genuine-sof...	HTTP/1.1	394	256	2619648	350	HTTP/1.1 200 OK, JSON (application/json)
72	2.585407	genuine-sof...	genuine-sof...	HTTP	216	256	2619648	172	DELETE /students/1 HTTP/1.1
78	2.587628	genuine-sof...	genuine-sof...	HTTP/1.1	181	256	2619648	137	HTTP/1.1 200 OK, JSON (application/json)

< Frame 45: 210 bytes on wire (1680 bits), 210 bytes captured (1680 bits) on interface \Device\NPF\_{...} id 0

> Null/loopback

> Internet Protocol Version 4, Src: genuine-software.autodesk.com (127.0.0.1), Dst: genuine-software.autodesk.com (127.0.0.1)

> Transmission Control Protocol, Src Port: 64998 (64998), Dst Port: http (80), Seq: 203, Ack: 1, Len: 166

> [2 Reassembled TCP Segments (368 bytes): #44(202), #45(166)]

> Hypertext Transfer Protocol

> POST /students HTTP/1.1\r\n

Host: 127.0.0.1\r\n

User-Agent: python-requests/2.32.3\r\n

Accept-Encoding: gzip, deflate\r\n

Accept: \*/\*\r\n

Connection: keep-alive\r\n

> Content-Length: 166\r\n

Content-Type: application/json\r\n

\r\n

[Full request URI: http://127.0.0.1/students]

[HTTP request 1/1]

[Response in frame: 50]

Frame (210 bytes) Reassembled TCP (368 bytes)

wireshark NPF\_{...} Loopback0VRNP2.pcapng

Packets: 100 · Displayed: 10 (10.0%) · Dropped: 0 (0.0%) Profile: Default

## Метод Get

\*Adapter for loopback traffic capture

File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help

http

No.	Time	Source	Destination	Protocol	Length	The RTT to ACK the Window	Calculated window size	Bytes in flight	Info
18	2.494066	genuine-sof...	genuine-sof...	HTTP	192	256	2619648	148	GET /students HTTP/1.1
22	2.557188	genuine-sof...	genuine-sof...	HTTP/1.1	656	256	2619648	612	HTTP/1.1 200 OK, JSON (application/json)
29	2.559962	genuine-sof...	genuine-sof...	HTTP	194	256	2619648	150	GET /students/1 HTTP/1.1
35	2.565280	genuine-sof...	genuine-sof...	HTTP/1.1	304	256	2619648	260	HTTP/1.1 404 NOT FOUND, JSON (application/json)
45	2.568210	genuine-sof...	genuine-sof...	HTTP/1.1	210	256	2619648	368	POST /students HTTP/1.1, JSON (application/json)
50	2.573576	genuine-sof...	genuine-sof...	HTTP/1.1	363	256	2619392	319	HTTP/1.1 201 CREATED, JSON (application/json)
59	2.577689	genuine-sof...	genuine-sof...	HTTP/1.1	183	256	2619648	139	PUT /students/4 HTTP/1.1, JSON (application/json)
65	2.582329	genuine-sof...	genuine-sof...	HTTP/1.1	394	256	2619648	350	HTTP/1.1 200 OK, JSON (application/json)
72	2.585407	genuine-sof...	genuine-sof...	HTTP	216	256	2619648	172	DELETE /students/1 HTTP/1.1
78	2.587628	genuine-sof...	genuine-sof...	HTTP/1.1	181	256	2619648	137	HTTP/1.1 200 OK, JSON (application/json)

< Frame 18: 192 bytes on wire (1536 bits), 192 bytes captured (1536 bits) on interface \Device\NPF\_{...} id 0

> Null/loopback

> Internet Protocol Version 4, Src: 127.0.0.1 (127.0.0.1), Dst: 127.0.0.1 (127.0.0.1)

> Transmission Control Protocol, Src Port: 64996 (64996), Dst Port: http (80), Seq: 1, Ack: 1, Len: 148

> Hypertext Transfer Protocol

> GET /students HTTP/1.1\r\n

Host: 127.0.0.1\r\n

User-Agent: python-requests/2.32.3\r\n

Accept-Encoding: gzip, deflate\r\n

Accept: \*/\*\r\n

Connection: keep-alive\r\n

\r\n

[Full request URI: http://127.0.0.1/students]

[HTTP request 1/1]

[Response in frame: 22]

Frame (192 bytes) Reassembled TCP (368 bytes)

wireshark NPF\_{...} Loopback0VRNP2.pcapng

Packets: 100 · Displayed: 10 (10.0%) · Dropped: 0 (0.0%) Profile: Default

## Метод Delete

*Adapter for loopback traffic capture										
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help										
http										
No.	Time	Source	Destination	Protocol	Length	The RTT to ACK the	Window	Calculated window size	Bytes in flight	Info
18	2.494066	genuine-so...	genuine-sof...	HTTP	192		256	2619648	148	GET /students HTTP/1.1
22	2.557188	genuine-so...	genuine-sof...	HTTP/1...	656		256	2619648	612	HTTP/1.1 200 OK , JSON (application/json)
29	2.559962	genuine-so...	genuine-sof...	HTTP	194		256	2619648	150	GET /students/1 HTTP/1.1
35	2.565280	genuine-so...	genuine-sof...	HTTP/1...	304		256	2619648	260	HTTP/1.1 404 NOT FOUND , JSON (application/json)
45	2.568210	genuine-so...	genuine-sof...	HTTP/1...	210		256	2619648	368	POST /students HTTP/1.1 , JSON (application/json)
50	2.573576	genuine-so...	genuine-sof...	HTTP/1...	363		256	2619392	319	HTTP/1.1 201 CREATED , JSON (application/json)
59	2.577689	genuine-so...	genuine-sof...	HTTP/1...	183		256	2619648	139	PUT /students/4 HTTP/1.1 , JSON (application/json)
65	2.582329	genuine-so...	genuine-sof...	HTTP/1...	394		256	2619648	350	HTTP/1.1 200 OK , JSON (application/json)
72	2.585407	genuine-so...	genuine-sof...	HTTP	216		256	2619648	172	DELETE /students/1 HTTP/1.1
78	2.587628	genuine-so...	genuine-sof...	HTTP/1...	181		256	2619648	137	HTTP/1.1 200 OK , JSON (application/json)

> Frame 72: 216 bytes on wire (1728 bits), 216 bytes captured (1728 bits) on interface \Device\NPF_{...}_Loopback, id 0		0000 02 00 00 00 45 00 00 d4 84 9f 40
> Null/Loopback		0010 7f 00 00 01 7f 00 00 01 fd e8 00
> Internet Protocol Version 4, Src: genuine-software.autodesk.com (127.0.0.1), Dst: genuine-software.autodesk.com (127.0.0.1)		0020 05 20 bd 8e 50 18 27 f9 01 6b 00
> Transmission Control Protocol, Src Port: 65000 (65000), Dst Port: http (80), Seq: 1, Ack: 1, Len: 172		0030 54 45 20 2f 73 74 75 64 65 6e 74
+ Hypertext Transfer Protocol		0040 54 54 50 2f 31 2e 31 0d 0a 48 6f
> DELETE /students/1 HTTP/1.1\r\n		0050 32 37 2e 30 2e 30 2e 31 0d 0a 55
Host: 127.0.0.1\r\n		0060 67 65 6e 74 3a 20 70 79 74 68 6f
User-Agent: python-requests/2.32.3\r\n		0070 75 65 73 74 73 2f 32 2e 33 32 2e
Accept-Encoding: gzip, deflate\r\n		0080 63 65 70 74 2d 45 6e 63 6f 64 69
Accept: */*\r\n		0090 7a 69 70 2c 20 64 65 66 6c 61 74
Connection: keep-alive\r\n		00a0 63 65 70 74 3a 20 2a 2f 2a 0d 0a
> Content-Length: 0\r\n		00b0 63 74 69 6f 6e 3a 20 6b 65 65 70
\r\n		00c0 65 0d 0a 43 6f 6e 74 65 6e 74 2d
[Full request URI: http://127.0.0.1/students/1]		00d0 68 3a 20 30 0d 0a 0d 0a
[HTTP request 1/1]		
[Response in frame: 78]		

## Метод Put

*Adapter for loopback traffic capture										
File Edit View Go Capture Analyze Statistics Telephony Wireless Tools Help										
http										
No.	Time	Source	Destination	Protocol	Length	The RTT to ACK the	Window	Calculated window size	Bytes in flight	Info
18	2.494066	genuine-so...	genuine-sof...	HTTP	192		256	2619648	148	GET /students HTTP/1.1
22	2.557188	genuine-so...	genuine-sof...	HTTP/1...	656		256	2619648	612	HTTP/1.1 200 OK , JSON (application/json)
29	2.559962	genuine-so...	genuine-sof...	HTTP	194		256	2619648	150	GET /students/1 HTTP/1.1
35	2.565280	genuine-so...	genuine-sof...	HTTP/1...	304		256	2619648	260	HTTP/1.1 404 NOT FOUND , JSON (application/json)
45	2.568210	genuine-so...	genuine-sof...	HTTP/1...	210		256	2619648	368	POST /students HTTP/1.1 , JSON (application/json)
50	2.573576	genuine-so...	genuine-sof...	HTTP/1...	363		256	2619392	319	HTTP/1.1 201 CREATED , JSON (application/json)
59	2.577689	genuine-so...	genuine-sof...	HTTP/1...	183		256	2619648	139	PUT /students/4 HTTP/1.1 , JSON (application/json)
65	2.582329	genuine-so...	genuine-sof...	HTTP/1...	394		256	2619648	350	HTTP/1.1 200 OK , JSON (application/json)
72	2.585407	genuine-so...	genuine-sof...	HTTP	216		256	2619648	172	DELETE /students/1 HTTP/1.1
78	2.587628	genuine-so...	genuine-sof...	HTTP/1...	181		256	2619648	137	HTTP/1.1 200 OK , JSON (application/json)

> Frame 59: 183 bytes on wire (1464 bits), 183 bytes captured (1464 bits) on interface \Device\NPF_{...}_Loopback, id 0		0000 02 00 00 00 45 00 00 b3 84 92 40 6
> Null/Loopback		0010 7f 00 00 01 7f 00 00 01 fd e7 00 5
> Internet Protocol Version 4, Src: genuine-software.autodesk.com (127.0.0.1), Dst: genuine-software.autodesk.com (127.0.0.1)		0020 10 24 0a 36 50 18 27 f9 76 b7 00 6
> Transmission Control Protocol, Src Port: 64999 (64999), Dst Port: http (80), Seq: 204, Ack: 1, Len: 139		0030 6d 65 22 3a 20 22 5c 75 30 34 31 6
> [2 Reassembled TCP Segments (342 bytes): #57(203), #59(139)]		0040 33 65 5c 75 30 34 33 32 5c 75 30 3
+ Hypertext Transfer Protocol		0050 30 34 33 39 20 5c 75 30 34 32 31 5
> PUT /students/4 HTTP/1.1\r\n		0060 32 5c 75 30 34 34 33 5c 75 30 34 3
Host: 127.0.0.1\r\n		0070 34 33 35 5c 75 30 34 33 64 5c 75 3
User-Agent: python-requests/2.32.3\r\n		0080 2c 20 22 61 67 65 22 3a 20 32 33 2
Accept-Encoding: gzip, deflate\r\n		0090 6a 6f 72 22 3a 20 22 5c 75 30 34 3
Accept: */*\r\n		00a0 34 33 38 5c 75 30 34 33 63 5c 75 3
Connection: keep-alive\r\n		00b0 75 30 34 34 66 22 7d
> Content-Length: 139\r\n		
Content-Type: application/json\r\n		
\r\n		
[Full request URI: http://127.0.0.1/students/4]		
[HTTP request 1/1]		
[Response in frame: 65]		