

Question 1

The protocols that appear are "Internet protocol v4 (IPv4)", "Transmission control protocol (TCP)" and "Hypertext transfer protocol (HTTP)".

Question 2

It took 0.129 seconds from HTTP GET was sent, until HTTP OK was received.

Question 3

The internet address of gaia.cs.umass.edu is 128.119.245.12 and mine is 192.168.1.186

Question 4

Packet list window:

6445	14:02:43.832672	192.168.1.186	128.119.245.12	HTTP	547	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
6449	14:02:43.961807	128.119.245.12	192.168.1.186	HTTP	504	HTTP/1.1 200 OK (text/html)

Packet-header for HTTP GET:

0000	60 45 cb 12 63 d8 2c be 08 ea 3b c0 08 00 45 00	`E..c.,. ..;...E.
0010	02 15 00 00 40 00 40 06 00 fd c0 a8 01 ba 80 77@.@.w
0020	f5 0c d7 03 00 50 cc 6f ee 6f b0 b0 43 f2 80 18P.o .o..C...
0030	10 15 bb c0 00 00 01 01 08 0a 15 00 37 67 47 74 7gGt
0040	97 1a 47 45 54 20 2f 77 69 72 65 73 68 61 72 6b	..GET /w ireshark
0050	2d 6c 61 62 73 2f 49 4e 54 52 4f 2d 77 69 72 65	-labs/IN TR0-wire
0060	73 68 61 72 6b 2d 66 69 6c 65 31 2e 68 74 6d 6c	shark-fi le1.html
0070	20 48 54 54 50 2f 31 2e 31 0d 0a 48 6f 73 74 3a	HTTP/1. 1..Host:
0080	20 67 61 69 61 2e 63 73 2e 75 6d 61 73 73 2e 65	gaia.cs .umass.e
0090	64 75 0d 0a 43 6f 6e 6e 65 63 74 69 6f 6e 3a 20	du..Conn ection:
00a0	6b 65 65 70 2d 61 6c 69 76 65 0d 0a 55 73 65 72	keep-ali ve..User
00b0	2d 41 67 65 6e 74 3a 20 4d 6f 7a 69 6c 6c 61 2f	-Agent: Mozilla/
00c0	35 2e 30 20 28 4d 61 63 69 6e 74 6f 73 68 3b 20	5.0 (Mac intosh;
00d0	49 6e 74 65 6c 20 4d 61 63 20 4f 53 20 58 20 31	Intel Ma c OS X 1
00e0	30 5f 31 33 5f 32 29 20 41 70 70 6c 65 57 65 62	0_13_2) AppleWeb
00f0	4b 69 74 2f 35 33 37 2e 33 36 20 28 4b 48 54 4d	Kit/537. 36 (KHTM
0100	4c 2c 20 6c 69 6b 65 20 47 65 63 6b 6f 29 20 43	L, like Gecko) C
0110	68 72 6f 6d 65 2f 36 33 2e 30 2e 33 32 33 39 2e	hrome/63 .0.3239.
0120	31 33 32 20 53 61 66 61 72 69 2f 35 33 37 2e 33	132 Safa ri/537.3
0130	36 0d 0a 55 70 67 72 61 64 65 2d 49 6e 73 65 63	6..Upgra de-Insec
0140	75 72 65 2d 52 65 71 75 65 73 74 73 3a 20 31 0d	ure-Requ ests: 1.
0150	0a 41 63 63 65 70 74 3a 20 74 65 78 74 2f 68 74	.Accept: text/ht
0160	6d 6c 2c 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78	ml,appli cation/x
0170	68 74 6d 6c 2b 78 6d 6c 2c 61 70 70 6c 69 63 61	html+xml ,applica
0180	74 69 6f 6e 2f 78 6d 6c 3b 71 3d 30 2e 39 2c 69	tion/xml ;q=0.9,i
0190	6d 61 67 65 2f 77 65 62 70 2c 69 6d 61 67 65 2f	mage/web p,image/

Packet-header for HTTP OK:

0000	2c	be	08	ea	3b	c0	60	45	cb	12	63	d8	08	00	45	00	,...;.`E ..c...E.
0010	01	ea	d4	6a	40	00	2f	06	3d	bd	80	77	f5	0c	c0	a8	...j@./ . =..w....
0020	01	ba	00	50	d7	03	b0	b0	43	f2	cc	6f	f0	50	80	18	...P.... C..o.P..
0030	00	eb	72	d2	00	00	01	01	08	0a	47	74	97	9c	15	00	...r..... ..Gt....
0040	37	67	48	54	54	50	2f	31	2e	31	20	32	30	30	20	4f	7gHTTP/1 .1 200 0
0050	4b	0d	0a	44	61	74	65	3a	20	46	72	69	2c	20	31	39	K..Date: Fri, 19
0060	20	4a	61	6e	20	32	30	31	38	20	31	33	3a	30	32	3a	Jan 201 8 13:02:
0070	34	33	20	47	4d	54	0d	0a	53	65	72	76	65	72	3a	20	43 GMT.. Server:
0080	41	70	61	63	68	65	2f	32	2e	34	2e	36	20	28	43	65	Apache/2 .4.6 (Ce
0090	6e	74	4f	53	29	20	4f	70	65	6e	53	53	4c	2f	31	2e	ntOS) Op enSSL/1.
00a0	30	2e	32	6b	2d	66	69	70	73	20	50	48	50	2f	35	2e	0.2k-fip s PHP/5.
00b0	34	2e	31	36	20	6d	6f	64	5f	70	65	72	6c	2f	32	2e	4.16 mod _perl/2.
00c0	30	2e	31	30	20	50	65	72	6c	2f	76	35	2e	31	36	2e	0.10 Per l/v5.16.
00d0	33	0d	0a	4c	61	73	74	2d	4d	6f	64	69	66	69	65	64	3..Last- Modified
00e0	3a	20	46	72	69	2c	20	31	39	20	4a	61	6e	20	32	30	: Fri, 1 9 Jan 20
00f0	31	38	20	30	36	3a	35	39	3a	30	31	20	47	4d	54	0d	18 06:59 :01 GMT.
0100	0a	45	54	61	67	3a	20	22	35	31	2d	35	36	33	31	62	.ETag: " 51-5631b
0110	39	64	38	33	35	61	32	34	22	0d	0a	41	63	63	65	70	9d835a24 " ..Accep
0120	74	2d	52	61	6e	67	65	73	3a	20	62	79	74	65	73	0d	t-Ranges : bytes.
0130	0a	43	6f	6e	74	65	6e	74	2d	4c	65	6e	67	74	68	3a	.Content -Length:
0140	20	38	31	0d	0a	4b	65	65	70	2d	41	6c	69	76	65	3a	81..Kee p-Alive:
0150	20	74	69	6d	65	6f	75	74	3d	35	2c	20	6d	61	78	3d	timeout =5, max=
0160	31	30	30	0d	0a	43	6f	6e	6e	65	63	74	69	6f	6e	3a	100..Con nection:
0170	20	4b	65	65	70	2d	41	6c	69	76	65	0d	0a	43	6f	6e	Keep-Al ive..Con
0180	74	65	6e	74	2d	54	79	70	65	3a	20	74	65	78	74	2f	tent-Typ e: text/
0190	68	74	6d	6c	3b	20	63	68	61	72	73	65	74	3d	55	54	html; ch arset=UT