1.Работа c HTTP через телнет.

Подключитесь утилитой телнет к сайту stackoverflow.com telnet stackoverflow.com 80

отправьте HTTP запрос

GET /questions HTTP/1.0

HOST: stackoverflow.com

[press enter]

[press enter]

В ответе укажите полученный HTTP код, что он означает?

Ответ:

p@p:~$ telnet stackoverflow.com 80

Trying 151.101.193.69...

Connected to stackoverflow.com.

Escape character is '^]'.

GET /questions HTTP/1.0

HOST: stackoverflow.com

HTTP/1.1 301 Moved Permanently (используют при переводе сайта с HTTP на HTTPS,)

cache-control: no-cache, no-store, must-revalidate (не используется кеш)

location: <https://stackoverflow.com/questions>

x-request-guid: 5eb3d9e8-c148-48a4-928a-1d9764d40ff0

feature-policy: microphone 'none'; speaker 'none' (не используется микро)

content-security-policy: upgrade-insecure-requests; frame-ancestors 'self' https://stackexchange.com

Accept-Ranges: bytes

Date: Tue, 16 Nov 2021 17:18:40 GMT (время с разницей в 3 часа)

Via: 1.1 varnish

Connection: close (соединение закрыто)

X-Served-By: cache-fra19143-FRA

X-Cache: MISS

X-Cache-Hits: 0

X-Timer: S1637083120.311888,VS0,VE92

Vary: Fastly-SSL

X-DNS-Prefetch-Control: off

Set-Cookie: prov=c63fc55b-afb8-8006-eb2f-ff954f997b76; domain=.stackoverflow.com; expires=Fri, 01-Jan-2055 00:00:00 GMT; path=/; HttpOnly (используется **куки )**

Connection closed by foreign host.

2.Повторите задание 1 в браузере, используя консоль разработчика F12.

откройте вкладку Network

отправьте запрос http://stackoverflow.com

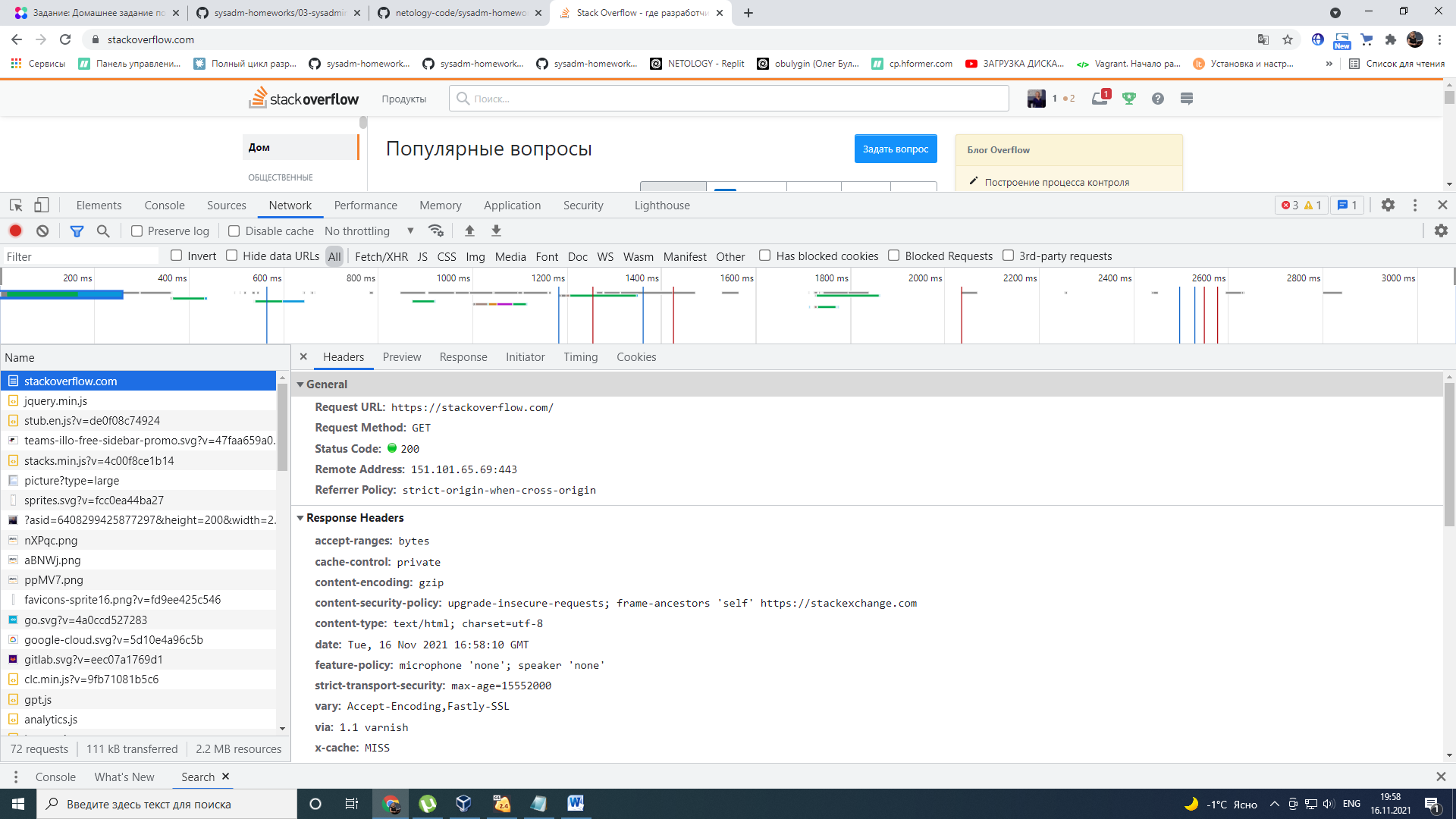
найдите первый ответ HTTP сервера, откройте вкладку Headers

укажите в ответе полученный HTTP код.

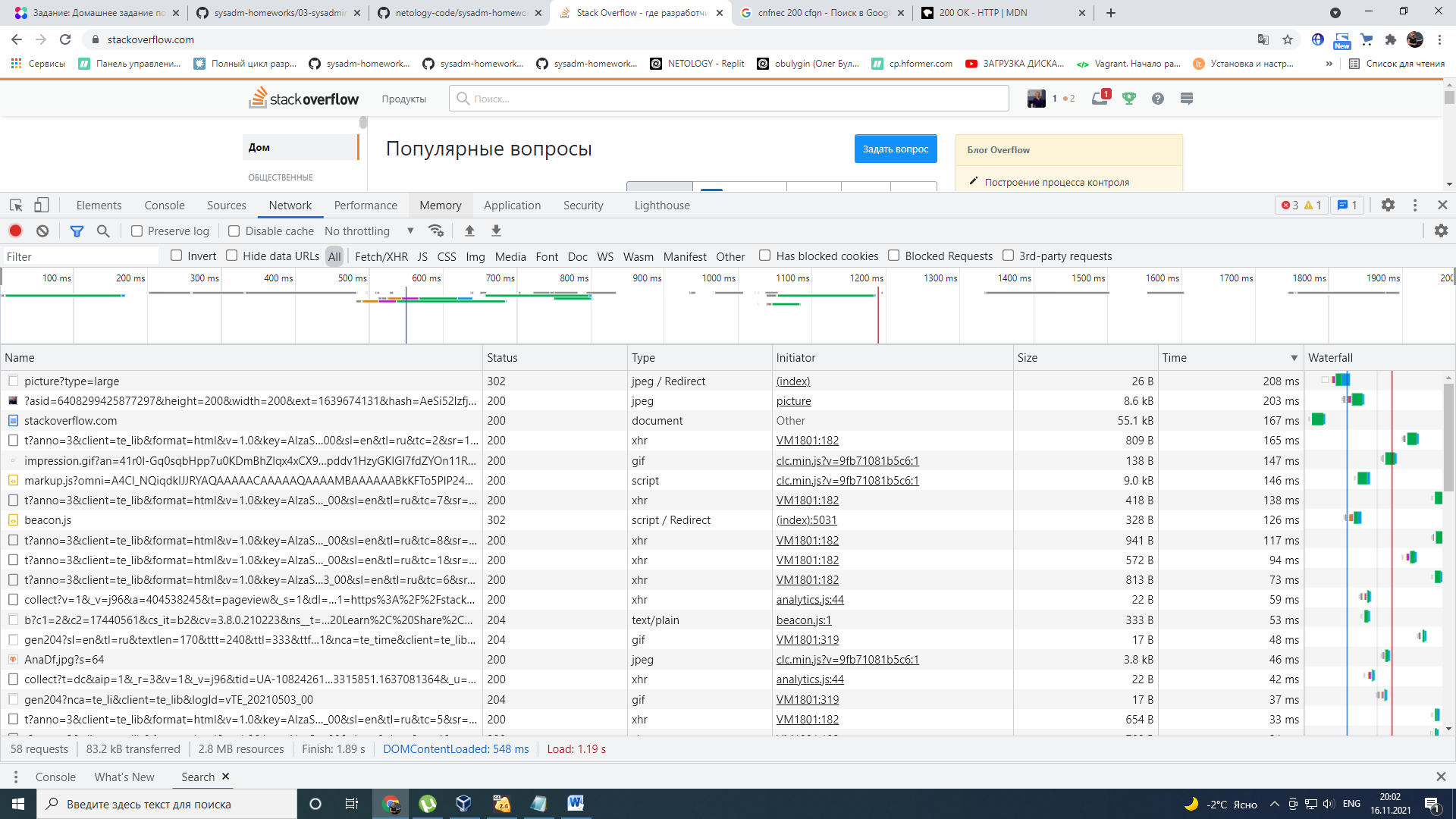
проверьте время загрузки страницы, какой запрос обрабатывался дольше всего?

приложите скриншот консоли браузера в ответ.

Ответ:



1. **Request Method:** GET (Ресурс был извлечён и передан в теле сообщения.)
2. **Status Code:** 200 (запрос выполнен успешно)



Запрос picture обрабатывается дольше всего

3.Какой IP адрес у вас в интернете?

Ответ:

109.252.124.35

4.Какому провайдеру принадлежит ваш IP адрес? Какой автономной системе AS? Воспользуйтесь утилитой whois

Ответ:

[**МГТС ОАО**](https://2ip.ru/isp/OJS+Moscow+city+telephone+network/)

p@p:~$ whois 109.252.124.35

% This is the RIPE Database query service.

% The objects are in RPSL format.

%

% The RIPE Database is subject to Terms and Conditions.

% See http://www.ripe.net/db/support/db-terms-conditions.pdf

% Note: this output has been filtered.

% To receive output for a database update, use the "-B" flag.

% Information related to '109.252.0.0 - 109.252.127.255'

% Abuse contact for '109.252.0.0 - 109.252.127.255' is 'abuse@spd-mgts.ru'

inetnum: 109.252.0.0 - 109.252.127.255

netname: MGTS-PPPOE

descr: Moscow Local Telephone Network (OAO MGTS)

country: RU

admin-c: USPD-RIPE

tech-c: USPD-RIPE

status: ASSIGNED PA

mnt-by: MGTS-USPD-MNT

created: 2009-12-10T11:03:29Z

last-modified: 2009-12-10T11:03:29Z

source: RIPE

role: PJSC Moscow City Telephone Network NOC

address: USPD MGTS

address: Moscow, Russia

address: Khachaturyana 5

admin-c: AGS9167-RIPE

admin-c: AVK103-RIPE

admin-c: GIA45-RIPE

tech-c: AVK103-RIPE

tech-c: VMK

tech-c: ANO3-RIPE

abuse-mailbox: abuse@spd-mgts.ru

nic-hdl: USPD-RIPE

mnt-by: MGTS-USPD-MNT

created: 2006-09-11T07:56:01Z

last-modified: 2021-04-13T10:41:35Z

source: RIPE # Filtered

% Information related to '109.252.0.0/16AS25513'

route: 109.252.0.0/16

descr: Moscow Local Telephone Network (OAO MGTS)

descr: Moscow, Russia

origin: AS25513

mnt-by: MGTS-USPD-MNT

created: 2010-06-30T16:15:54Z

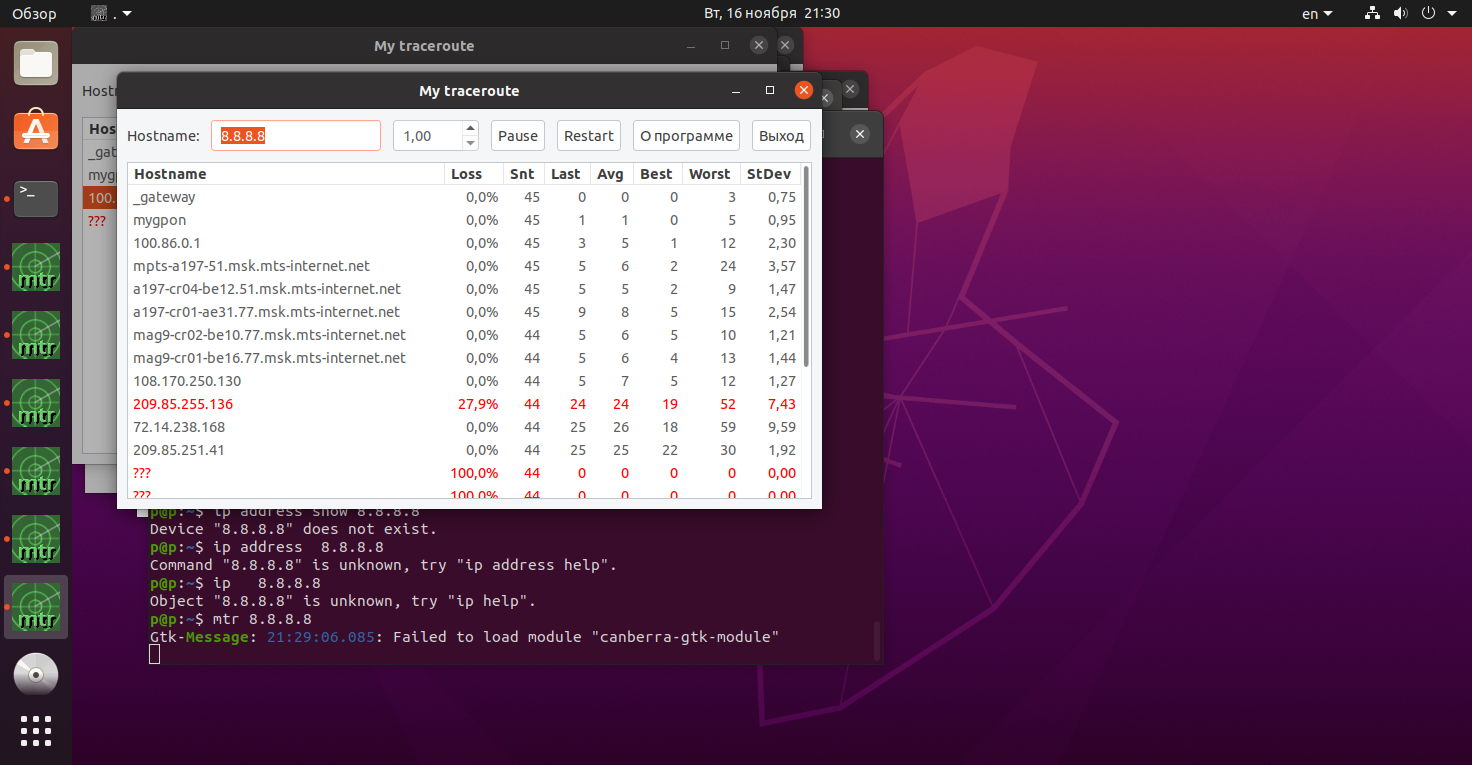
last-modified: 2010-06-30T16:15:54Z

source: RIPE

% This query was served by the RIPE Database Query Service version 1.101 (WAGYU)

5.Через какие сети проходит пакет, отправленный с вашего компьютера на адрес 8.8.8.8? Через какие AS? Воспользуйтесь утилитой traceroute

Ответ:



**8**.**8**.**8**.**8**. Это быстрый публичный DNS-сервер рекурсивного типа от Google

p@p:~$ traceroute 109.252.124.35

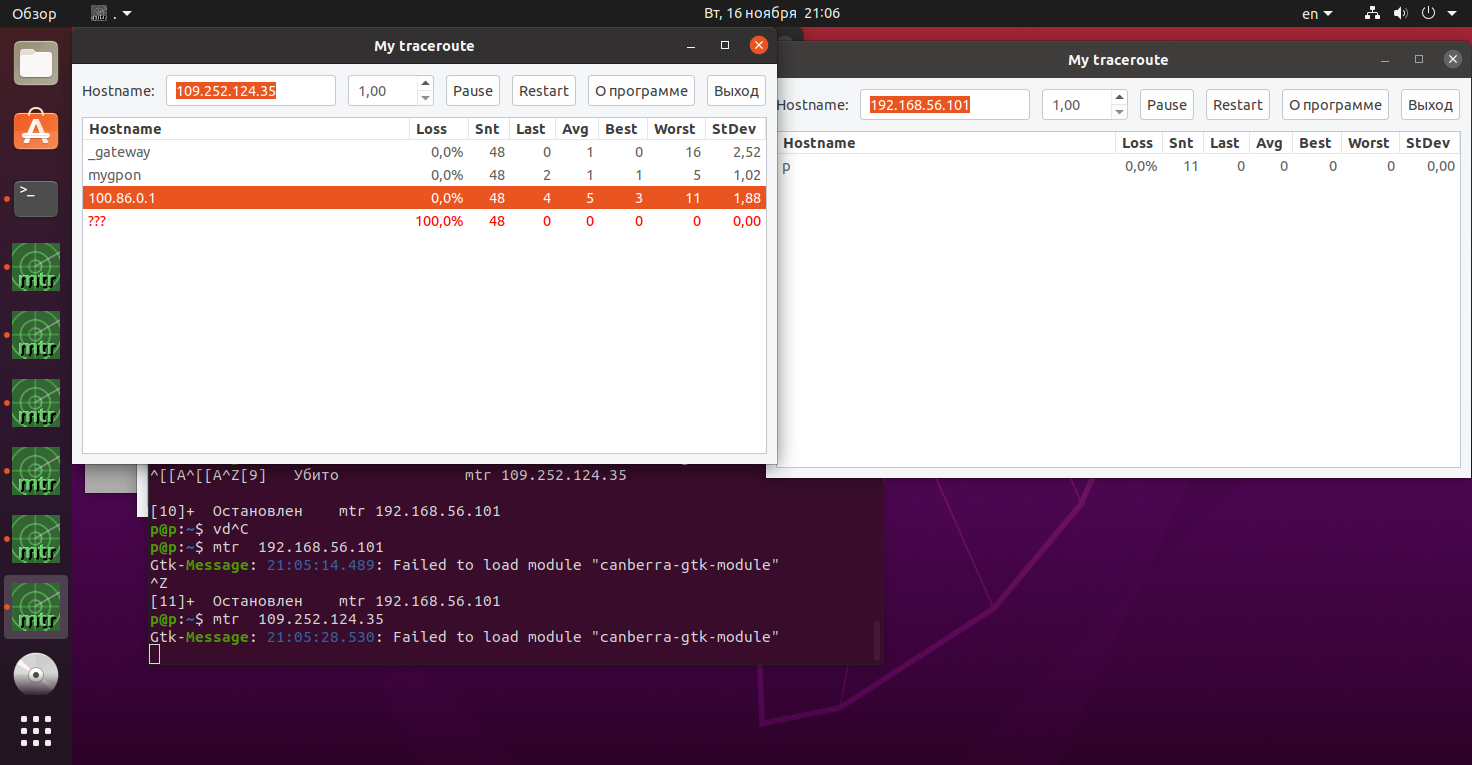
traceroute to 109.252.124.35 (109.252.124.35), 30 hops max, 60 byte packets

1 \_gateway (10.0.2.2) 0.375 ms 0.310 ms 0.208 ms

2 \_gateway (10.0.2.2) 1.562 ms 1.468 ms 1.557 ms

6.Повторите задание 5 в утилите mtr. На каком участке наибольшая задержка - delay?

Ответ:

Задержка 100.86.0.1

7.Какие DNS сервера отвечают за доменное имя dns.google? Какие A записи? воспользуйтесь утилитой dig

8.8.8.8 и 8.8.4.4 – это бесплатные, публичные DNS-серверы от Google. Называются они Google Public DNS. Эти DNS-серверы разработала компания Google. Они с закрытым исходным кодом. Их может использовать любой желающий, просто прописав их на своем компьютере, телефоне, роутере.

p@p:~$ whois dns.google

Domain Name: dns.google

Registry Domain ID: 2C7E70B08-GOOGLE

Registrar WHOIS Server: whois.nic.google

Registrar URL: http://www.markmonitor.com

Updated Date: 2021-03-20T09:34:24Z

Creation Date: 2018-04-16T22:57:01Z

Registry Expiry Date: 2022-04-16T22:57:01Z

Registrar: MarkMonitor Inc.

Registrar IANA ID: 292

Registrar Abuse Contact Email: abusecomplaints@markmonitor.com

Registrar Abuse Contact Phone: +1.2083895740

Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited

Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited

Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited

Registry Registrant ID: REDACTED FOR PRIVACY

Registrant Name: REDACTED FOR PRIVACY

Registrant Organization: Charleston Road Registry, Inc.

Registrant Street: REDACTED FOR PRIVACY

Registrant Street:

Registrant City: REDACTED FOR PRIVACY

Registrant State/Province: CA

Registrant Postal Code: REDACTED FOR PRIVACY

Registrant Country: US

Registrant Phone: REDACTED FOR PRIVACY

Registrant Fax: REDACTED FOR PRIVACY

Registrant Email: Please query the WHOIS server of the owning registrar identified in this output for information on how to contact the Registrant, Admin, or Tech contact of the queried domain name.

Registry Admin ID: REDACTED FOR PRIVACY

Admin Name: REDACTED FOR PRIVACY

Admin Organization: REDACTED FOR PRIVACY

Admin Street: REDACTED FOR PRIVACY

Admin Street:

Admin City: REDACTED FOR PRIVACY

Admin State/Province: REDACTED FOR PRIVACY

Admin Postal Code: REDACTED FOR PRIVACY

Admin Country: REDACTED FOR PRIVACY

Admin Phone: REDACTED FOR PRIVACY

Admin Fax: REDACTED FOR PRIVACY

Admin Email: Please query the WHOIS server of the owning registrar identified in this output for information on how to contact the Registrant, Admin, or Tech contact of the queried domain name.

Registry Tech ID: REDACTED FOR PRIVACY

Tech Name: REDACTED FOR PRIVACY

Tech Organization: REDACTED FOR PRIVACY

Tech Street: REDACTED FOR PRIVACY

Tech Street:

Tech City: REDACTED FOR PRIVACY

Tech State/Province: REDACTED FOR PRIVACY

Tech Postal Code: REDACTED FOR PRIVACY

Tech Country: REDACTED FOR PRIVACY

Tech Phone: REDACTED FOR PRIVACY

Tech Fax: REDACTED FOR PRIVACY

Tech Email: Please query the WHOIS server of the owning registrar identified in this output for information on how to contact the Registrant, Admin, or Tech contact of the queried domain name.

Registry Billing ID: REDACTED FOR PRIVACY

Billing Name: REDACTED FOR PRIVACY

Billing Organization: REDACTED FOR PRIVACY

Billing Street: REDACTED FOR PRIVACY

Billing Street:

Billing City: REDACTED FOR PRIVACY

Billing State/Province: REDACTED FOR PRIVACY

Billing Postal Code: REDACTED FOR PRIVACY

Billing Country: REDACTED FOR PRIVACY

Billing Phone: REDACTED FOR PRIVACY

Billing Fax: REDACTED FOR PRIVACY

Billing Email: Please query the WHOIS server of the owning registrar identified in this output for information on how to contact the Registrant, Admin, or Tech contact of the queried domain name.

Name Server: ns1.zdns.google

Name Server: ns2.zdns.google

Name Server: ns3.zdns.google

Name Server: ns4.zdns.google

DNSSEC: signedDelegation

URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/

>>> Last update of WHOIS database: 2021-11-16T18:12:55Z <<<

For more information on Whois status codes, please visit <https://ica>

p@p:~$ dig dns.google

; <<>> DiG 9.16.1-Ubuntu <<>> dns.google

;; global options: +cmd

;; Got answer:

;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 51846

;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:

; EDNS: version: 0, flags:; udp: 65494

;; QUESTION SECTION:

;dns.google. IN A

;; ANSWER SECTION:

dns.google. 246 IN A 8.8.4.4

dns.google. 246 IN A 8.8.8.8

;; Query time: 3 msec

;; SERVER: 127.0.0.53#53(127.0.0.53)

;; WHEN: Вт ноя 16 21:15:00 MSK 2021

;; MSG SIZE rcvd: 71

Ответ:

8.Проверьте PTR записи для IP адресов из задания 7. Какое доменное имя привязано к IP? воспользуйтесь утилитой dig

p@p:~$ dig -x dns.google

; <<>> DiG 9.16.1-Ubuntu <<>> -x dns.google

;; global options: +cmd

;; Got answer:

;; ->>HEADER<<- opcode: QUERY, status: NXDOMAIN, id: 58672

;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:

; EDNS: version: 0, flags:; udp: 65494

;; QUESTION SECTION:

;google.dns.in-addr.arpa. IN PTR

;; Query time: 91 msec

;; SERVER: 127.0.0.53#53(127.0.0.53)

;; WHEN: Вт ноя 16 21:18:02 MSK 2021

;; MSG SIZE rcvd: 52