



www.asp.net.by
plato.bsite.net

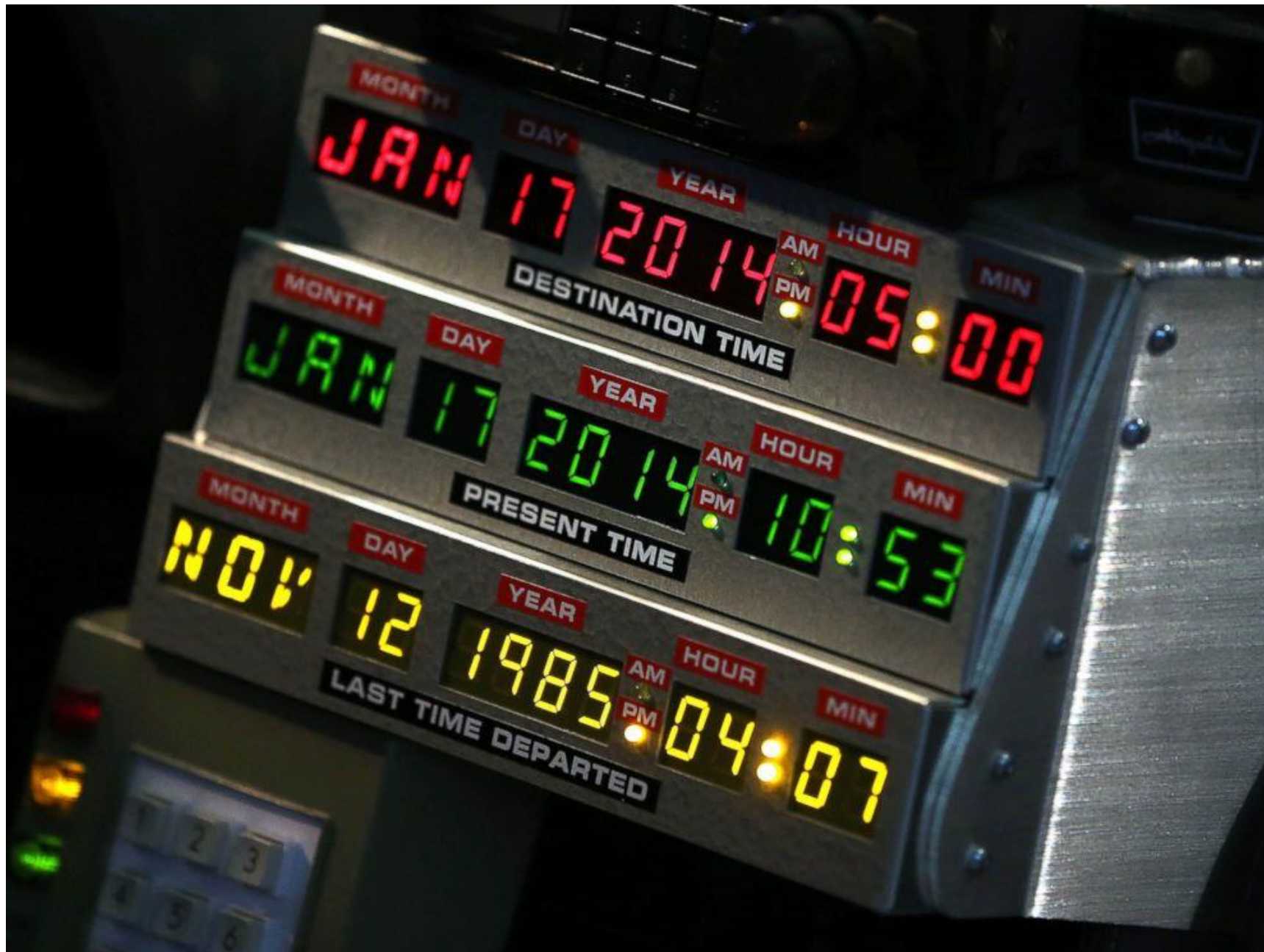
YAROSHEVICH
Andrey Olegovich

www.YAROSHEVICH.com
ao@dot.net.by
+375 29 254-07-92



BACK TO THE FUTURE II













Needles, Douglas J

Age: 47

Birthday: August 1968

The Jits
will never find out.

Oh. Uh-huh.



Needles, Douglas J.
Food Preference: Steak, Mex
Food Dislike: F



<https://www.youtube.com/watch?v=Q0VGRIEJewA>

<https://www.youtube.com/watch?v=L2xvITU7gdl>



Martin «Marty» Seamus McFly



Doc



Biff Tannen - is portrayed as a hulking, belligerent, dim-witted bully



FUTURE SHOCK

Biff Tannen, the 45th President of the United States

6 min read·

Jan 21, 2021

```

e.fn.button;e.fn.button=function(n){return this.each(function(){var r=e(this),i=r.data("button"),s=typeof n=="object"?data("button",i+now t(this,s)),n=="toggle"?i.toggle():n&&i.setState(n)}),e.fn.button.defaults={loadingText:"loading",button.Constructor=t,e.fn.button.noConflict=function(){return this},function(t){var i=function(e){"use strict";var t=func
t.options=n,this.options.pause=="hover"/this}};t.prototype={cycle:function(t){.interval&&this.paused&&(this.interval{return this.$active=this.$element.find
.$active}},to:function(t){var n=this.g
.$element.one("slid",function(){r.to(t
t){return t}}(this.paused=!0),this.$el
.support.transition.end),this.cycle(10)
return;return this.slide("next")},prev
r=this.$element.find(".item.active"),i
this.sliding=!0,s&&this.pause(),i=i.le
(i.hasClass("active"))return;this.$i
("slid",function(){var t=e(a.$indicator
.$element.hasClass("slide")){this.$ele
,i.addClass(o),this.$element.one(e.supp
.removeClass(["active",o].join(" ")),a
(f);if(f.isDefaultPrevented())return;r
return s&&this.cycle(),this}};var n=e
("carousel"),s=e.extend({},e.fn.carousel
t(this,s)),typeof n=="number"?i.to(n):i
pause:"hover"},e.fn.carousel.Constructi
.carousel.data-api,"[data-slide], [dat
.replace(/.*(?=#[^\s]+$)/,""),s=e.exti
.pause().to(o).cycle(),t.preventDefault
options=e.extend({},e.fn.collapse.defi
toggle());t.prototype={constructor:t,
show:function(){var t,n,r,i;if(this.tri
].join("-")),r=this.$parent&&this.$pai
transitioning)return;r.collapse("hide"
show")e.support.transition&&this.to

```



```

this},e(document).on("click.button.data-a
losest(".btn")),n.button("toggle"))}{w
rs=this.$element.find(".carousel-indic
is.pause,this)).on("mouseleave",e.prox
&clearInterval(this.interval),this.opt
.options.interval)),this.getActiveInd
.parent().children(),this.$items.index
ngth-1}}t<0)return;return this.sliding
>n?"next":"prev",e(this.$items[t]))},p
ort.transition.end&&(this.$element.tri
val=null,this),next:function(){if(this
this.slide("prev")},slide:function(t,n
ft:"right",u=t=="next"?first:"last"
e.Event("slide",{relatedTarget:i[0],di
.active").removeClass("active"),this.$
dClass("active"))});if(e.support.trans
return;i.addClass(t),i[0].offsetWidth
ss([t,o].join(" ")).addClass("active")
nt.trigger("slid"),0)}))else{this.$el
),this.sliding=!1,this.$element.trigg
urn this.each(function(){var r=e(this
if n=="string"?n:s.slide;i||r.data("ca
e.fn.carousel.defaults={interval:5e3,
return e.fn.carousel=n,this},e(document
i=e(n.attr("data-target"))||(r=n.attr(
(o=n.attr("data-slide-to"))&&i.data("
rict";var t=function(t,n){this.$elemen
t=e(this.options.parent),this.option
asClass("width");return e?"width":"he
return;t=this.dimension(),n=e.camelCa
&&r.length){i=r.data("collapse");if(i
t[t](0),this.transition("addClass",e
for(){var t;if(this.transitioning)

```

IT
WWW

IT-TECHNOLOGY IS
EXPONENTIAL.

32

16

08

04

01

02

03

04

05

06

BUT HUMANS ARE NOT.





Courses 05.09.2019 15:15

Cards		
Cash		
NBRB		
Currency	Purchase	Sale
USD	2.1040	2.1190
EUR	2.3200	2.3400



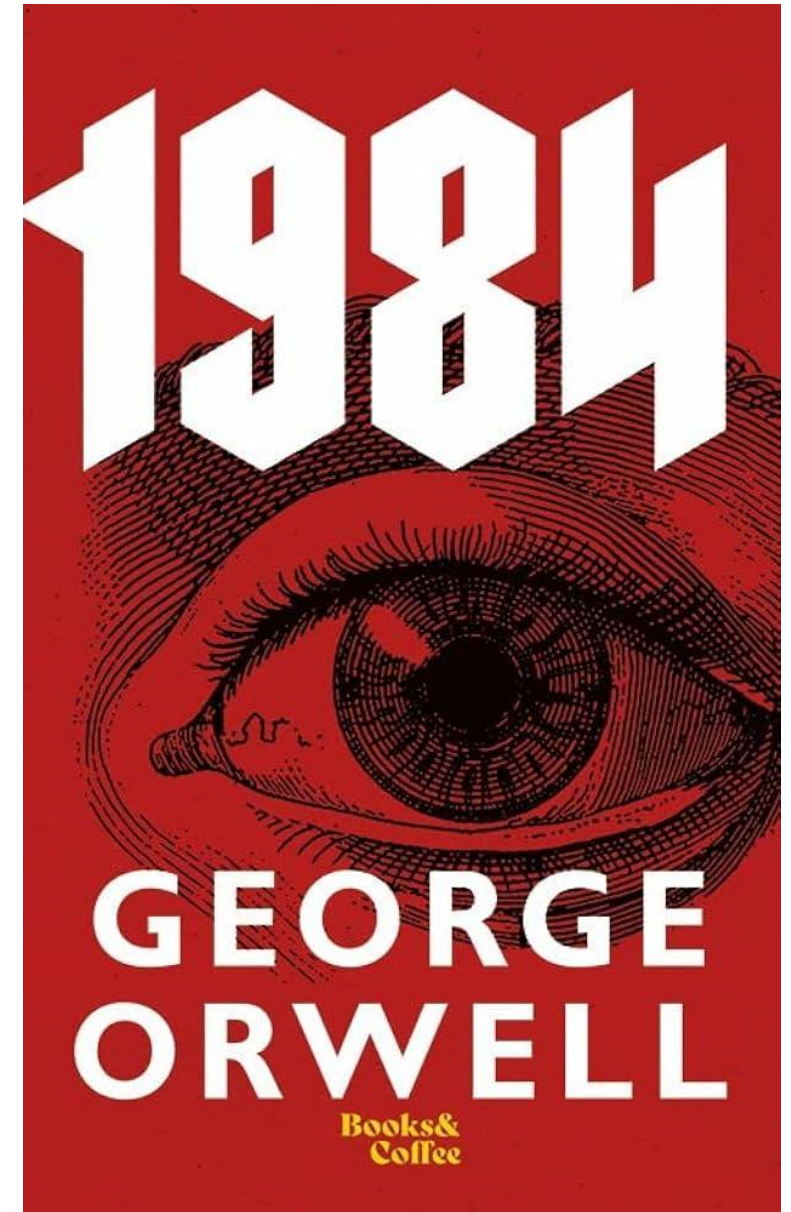
蚂蚁金服
ANT FINANCIAL

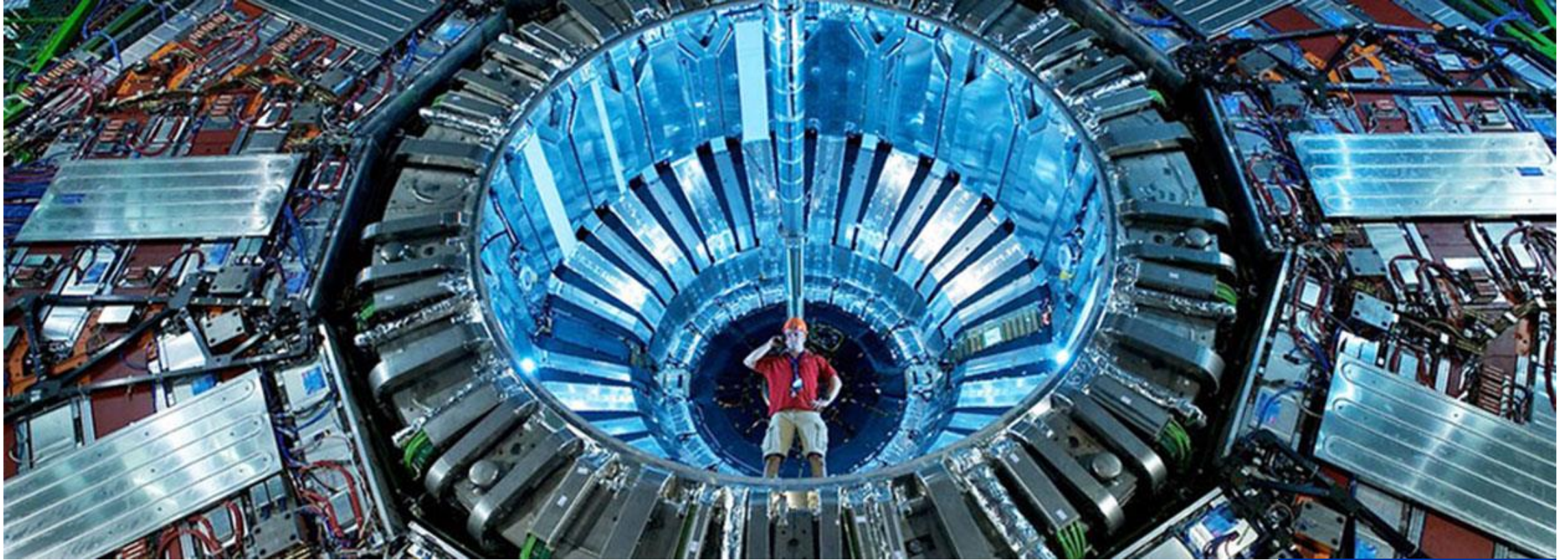




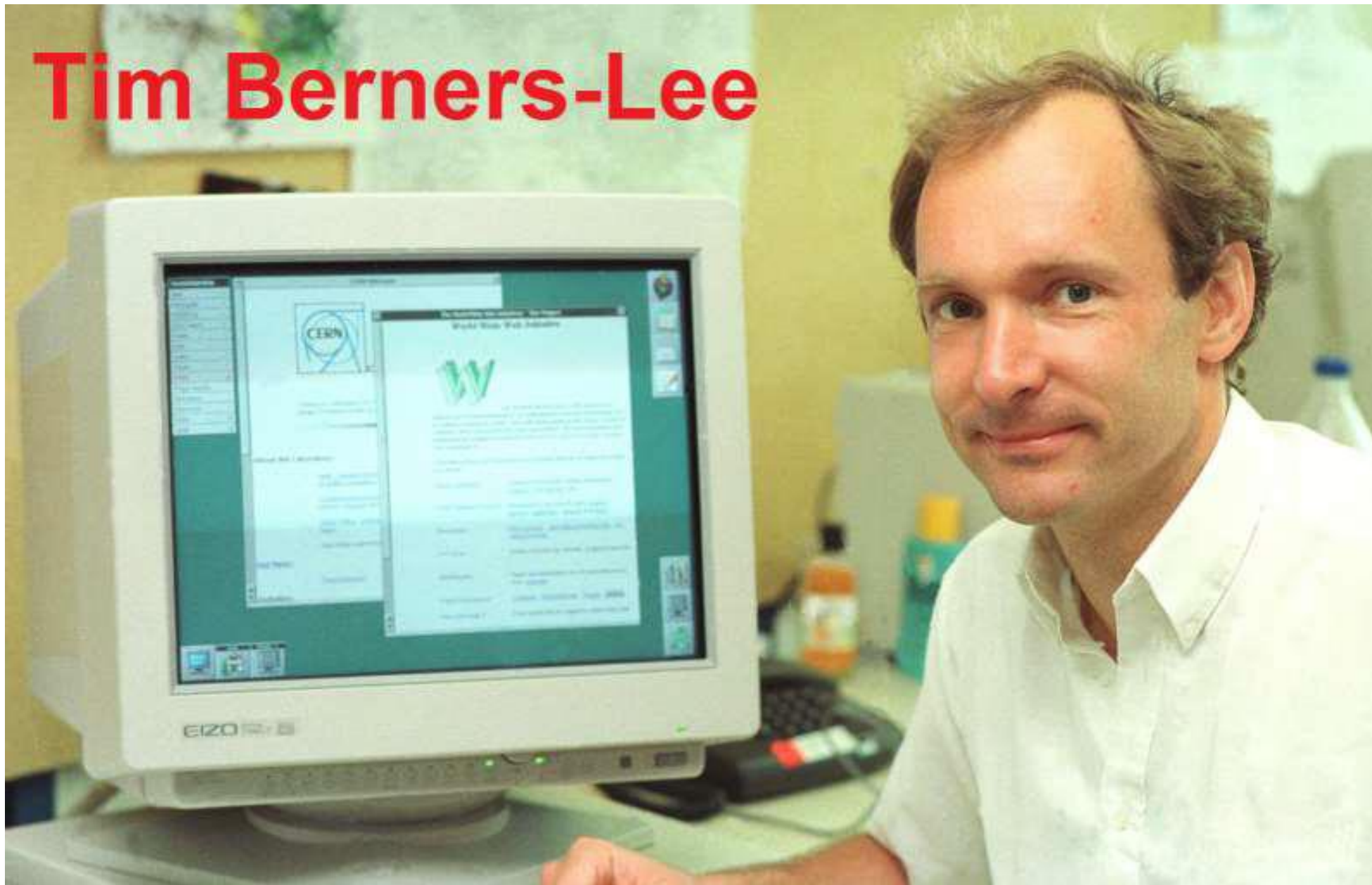
"1984" is an American television commercial which introduced the Apple Macintosh personal computer for the first time.

<https://youtu.be/VtvjbmoDx-I>





Tim Berners-Lee





Skype for Business

What's happening today?

Denis Dehenne
In a meeting
Recording Studio

Find someone

GROUPS STATUS RELATIONSHIPS NEW

FAVORITES

Junmin Hao - Available - Video Capable

Molly Dempsey - Inactive 25 mins
Think Do; Scale

Sara Davis - In a conference call
Be kind

FINANCE (0/1)

Molly Dempsey - Inactive 25 mins
Think Do; Scale

LEGAL (0/1)

MARKETING (1/4)

Garth Fort - Offline 3 days
Skype ... #1 in communication

Janet Schorr - Offline
@ Janet Schorr

https://preview.web.skype.com

Amy
Last seen days ago | Gallery

Messages

Contacts Notifications

+ Chat

6/6/2018

er's conversa... 5/13/2018
tion_host_aa...

2/26/2018

Test Service 10/17/2017
- 5s

Wave

Type a message here

Desktop Client · Feedback · Language (en-US) Terms of use · Privacy and cookie policy · © 2018 Skype and/or Microsoft.

Microphone blocked

This page has been blocked from accessing your microphone.

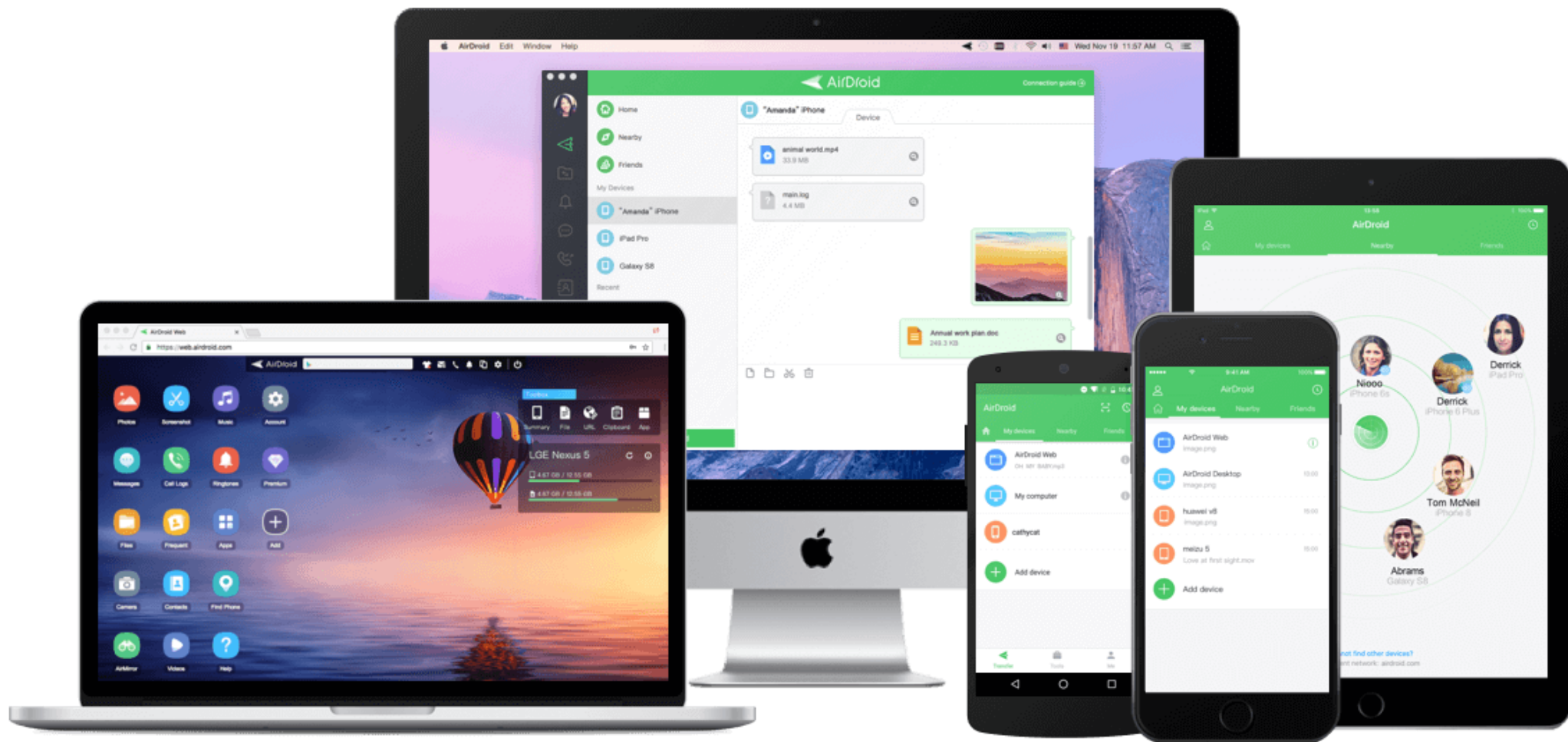
☒ Always allow https://preview.web.skype.com to access your microphone

☐ Continue blocking microphone access

Microphone: Microphone (Blue Snowball) ...

This page may need to be reloaded before the new settings take effect.

Manage Done



Students learn theoretically and get practical skills in

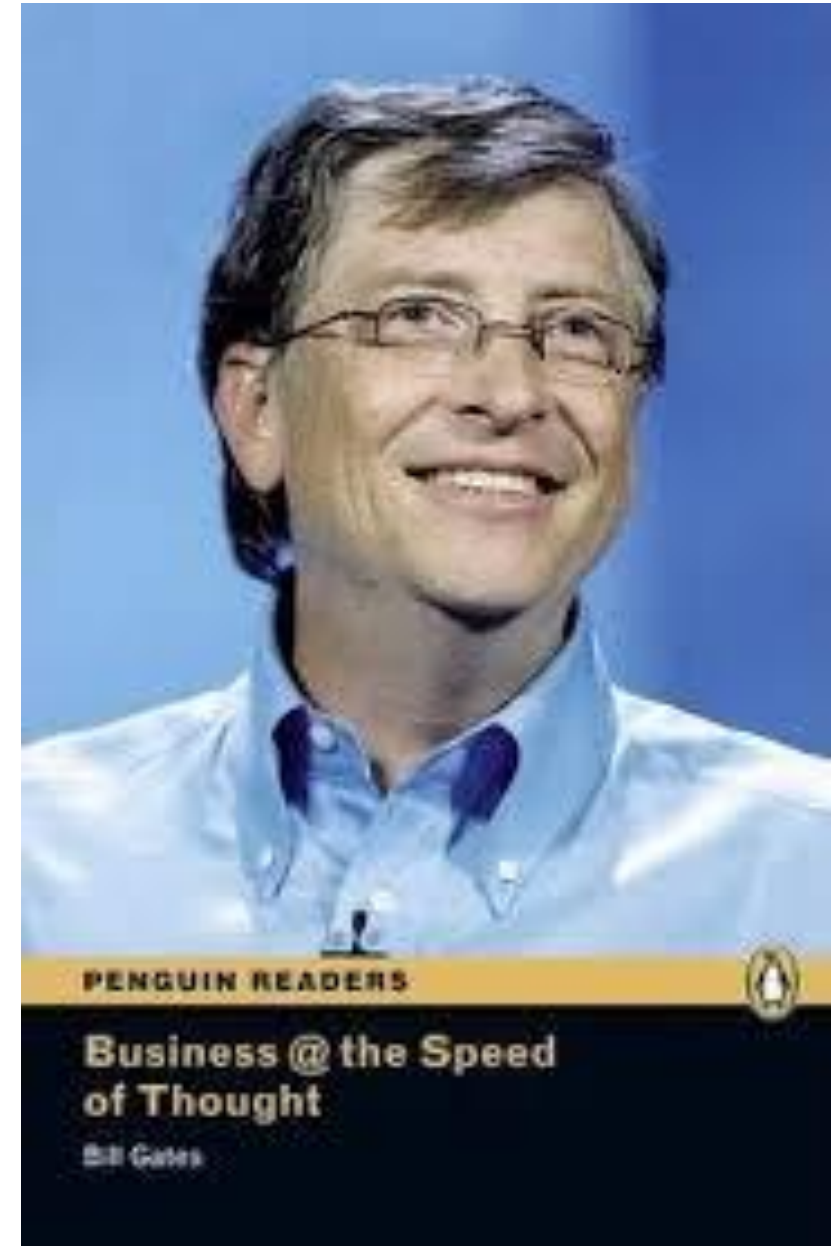
- **markup languages,**
- **scripting languages,**
- **network protocols,**
- **graphics and video-images,**
- **event-driven programming,**
- **object oriented programming,**
- **databases.**

That is, those technologies which allow constructing modern WEB applications.





**Microsoft updates these technologies
almost completely once every 3 years**

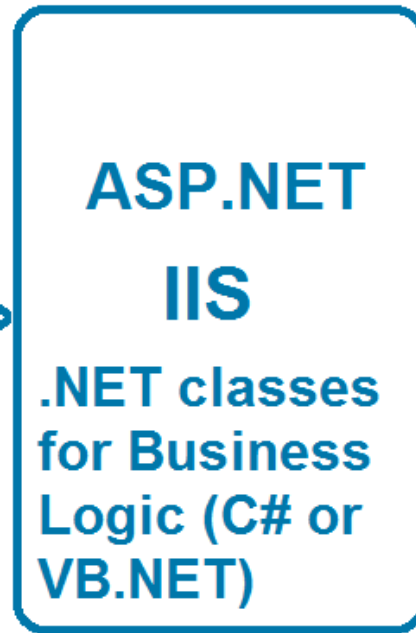


WEB-Browser



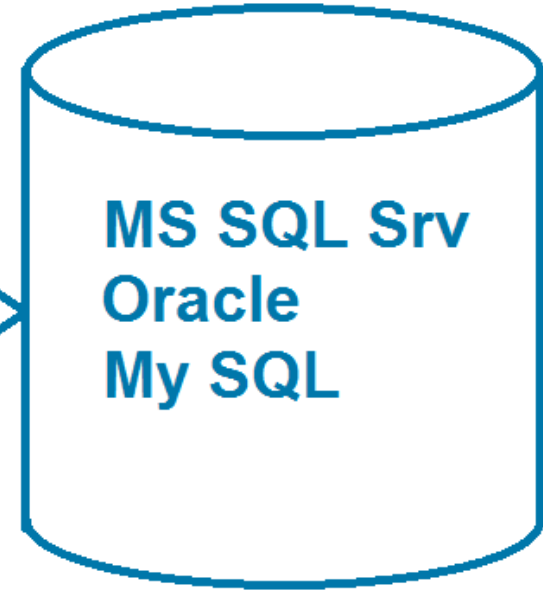
Presentation Layer

WEB-server



Business Layer

Storage System



Data Layer



WEB-Browser



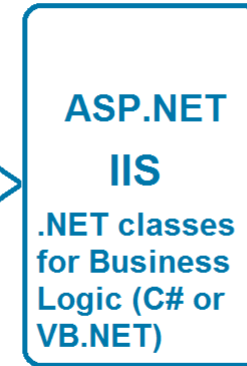
Presentation Layer

WEB-Browser



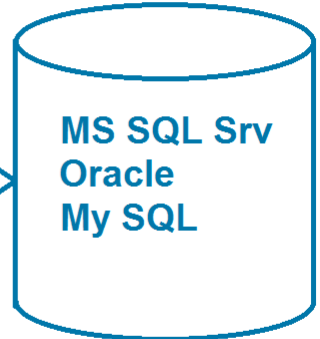
Presentation Layer

WEB-server



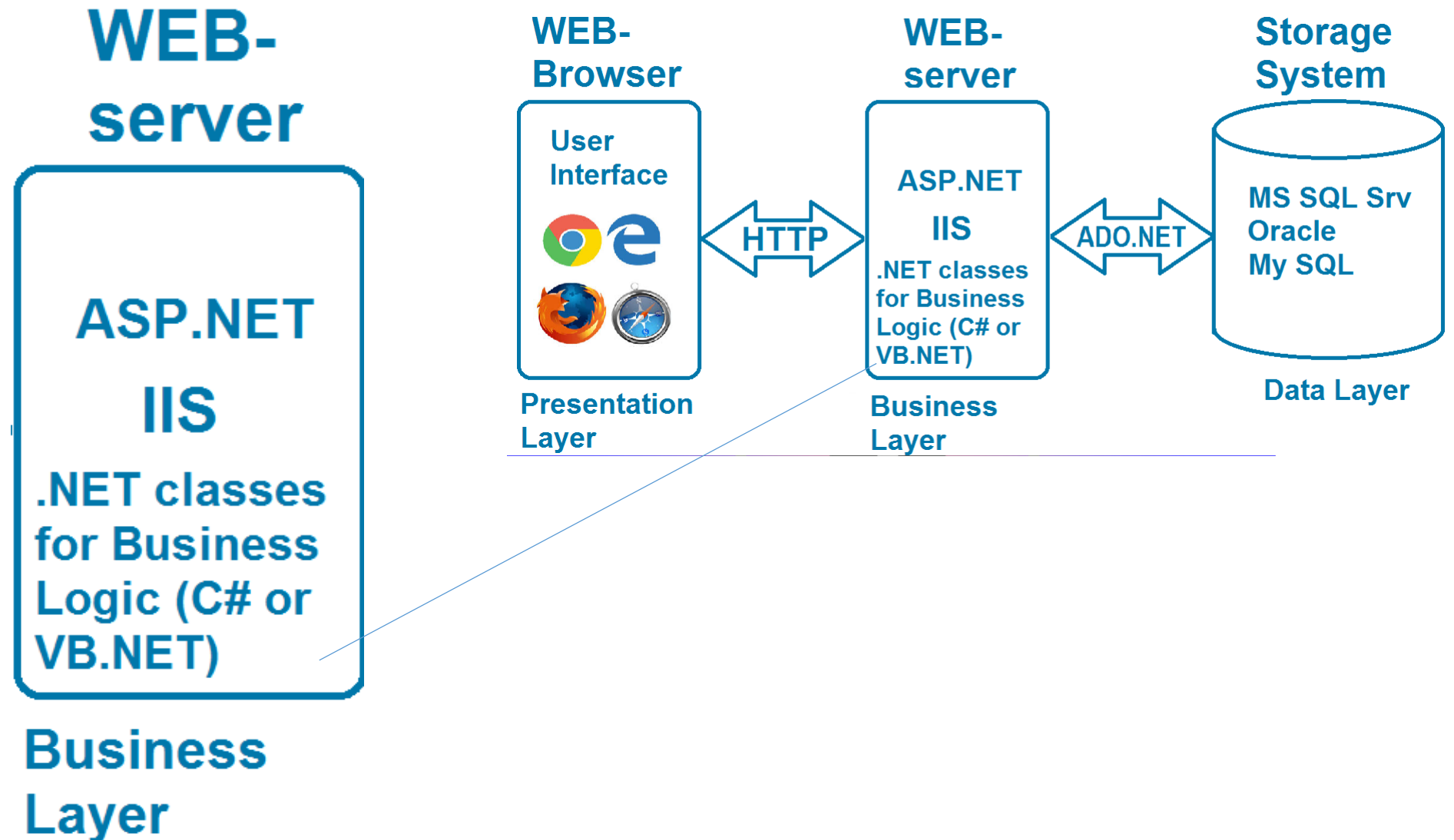
Business Layer

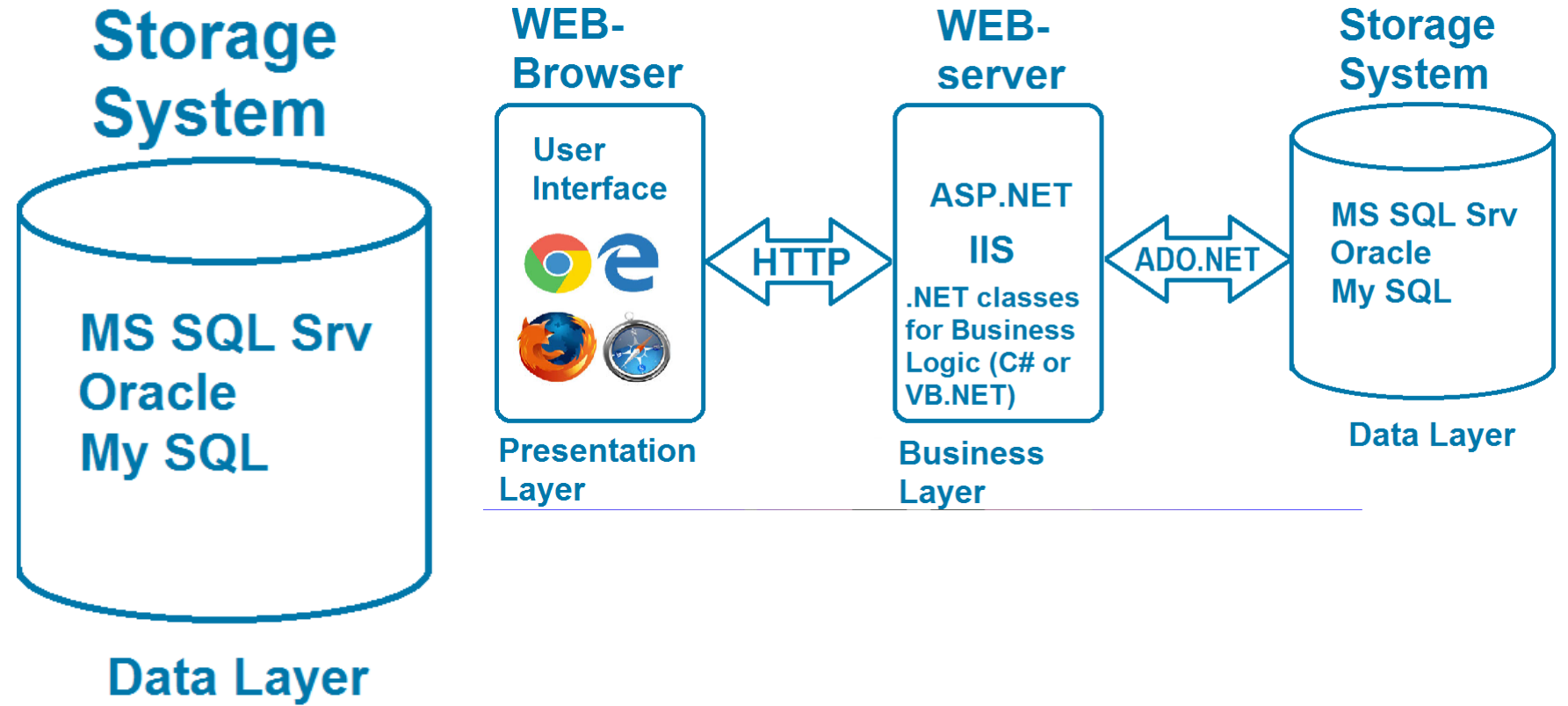
Storage System



Data Layer

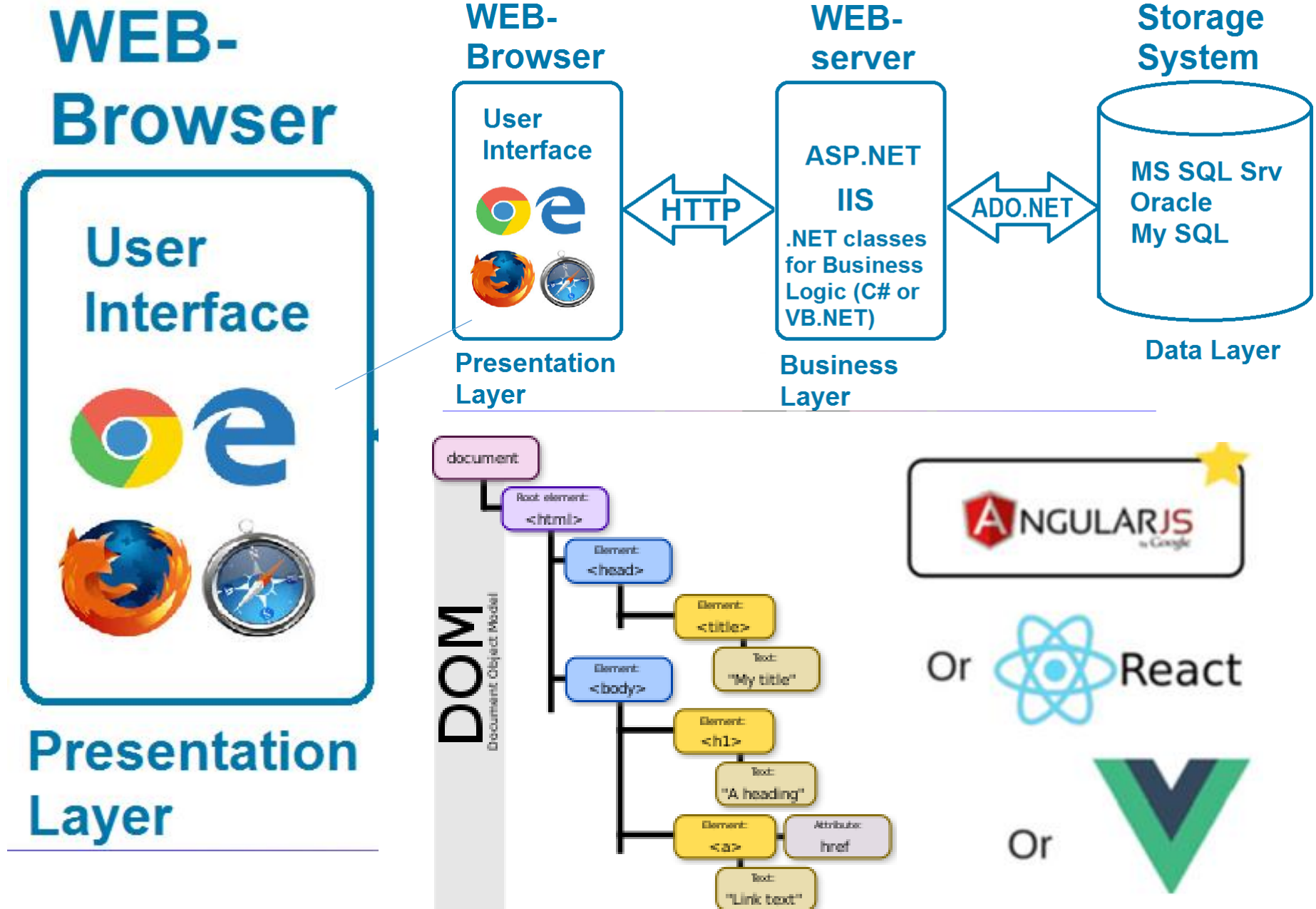






At the
interface level
are studied :

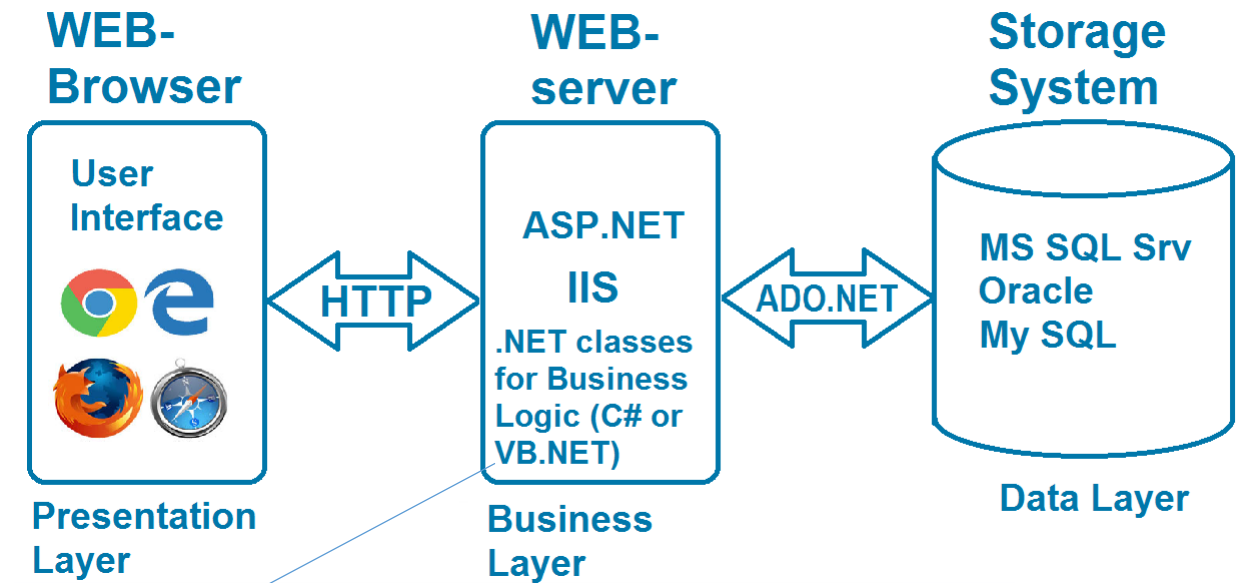
- HTML/CSS/
JavaScript
- Document
object Model
(DOM)
- Single page
applications
(**Angular JS**
and (or)
Vue.JS
frameworks)



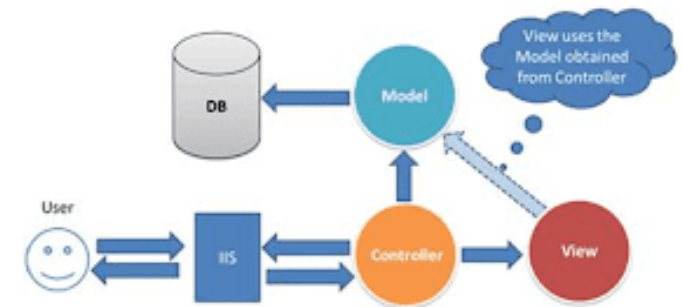
At the
server level
(Business
Layer)

is studied

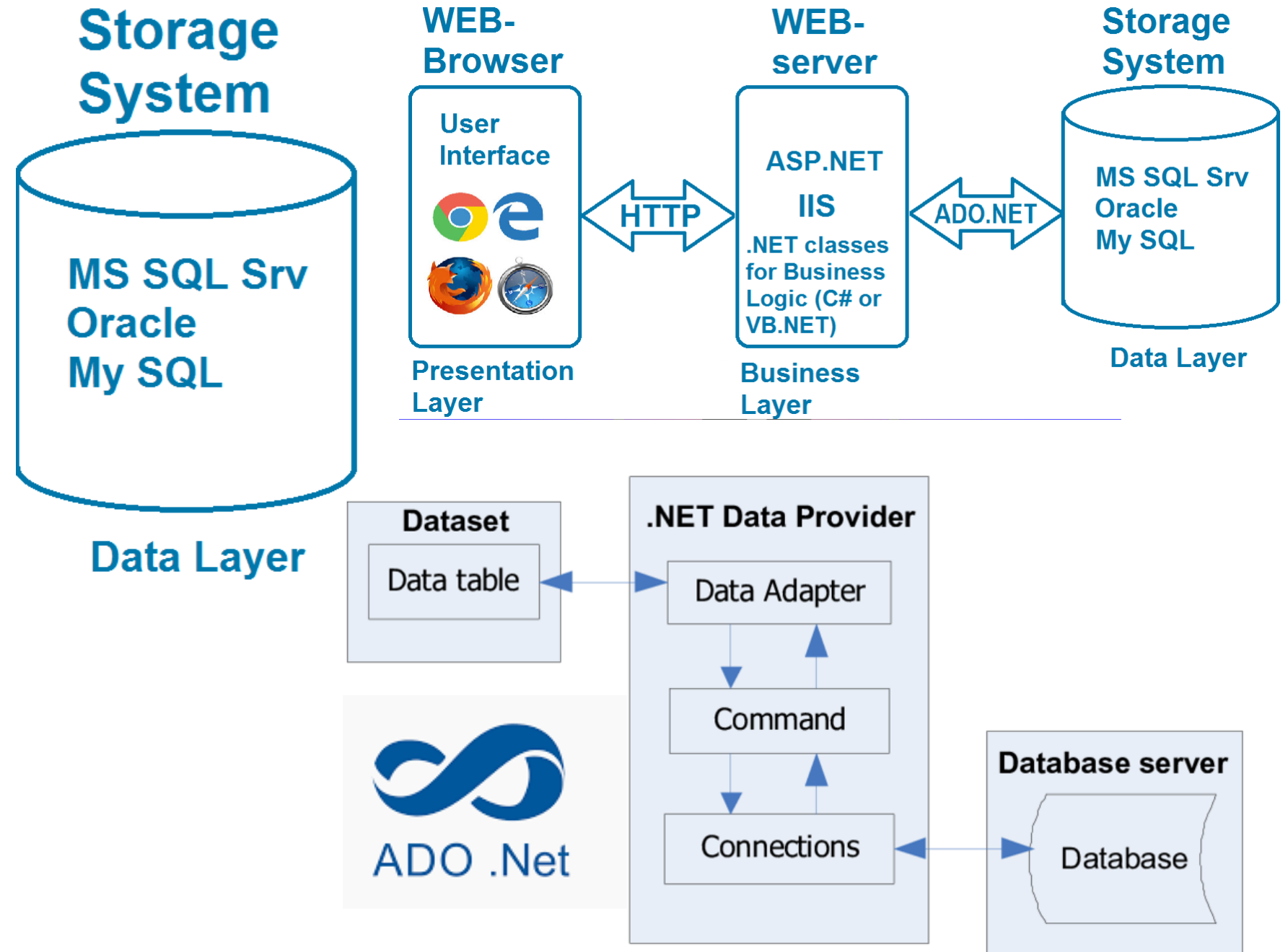
- The **ASP.NET** technology based on C# and VB.NET
- Model View Controller

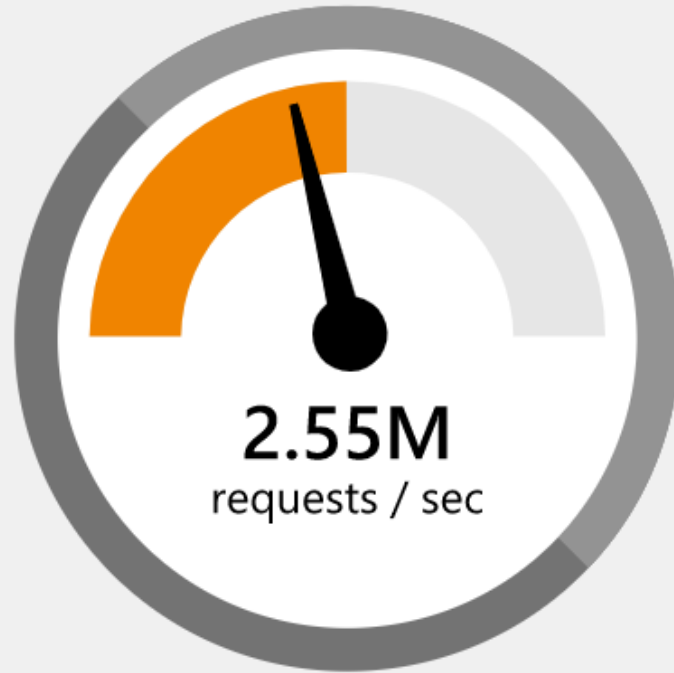


Model View Controller

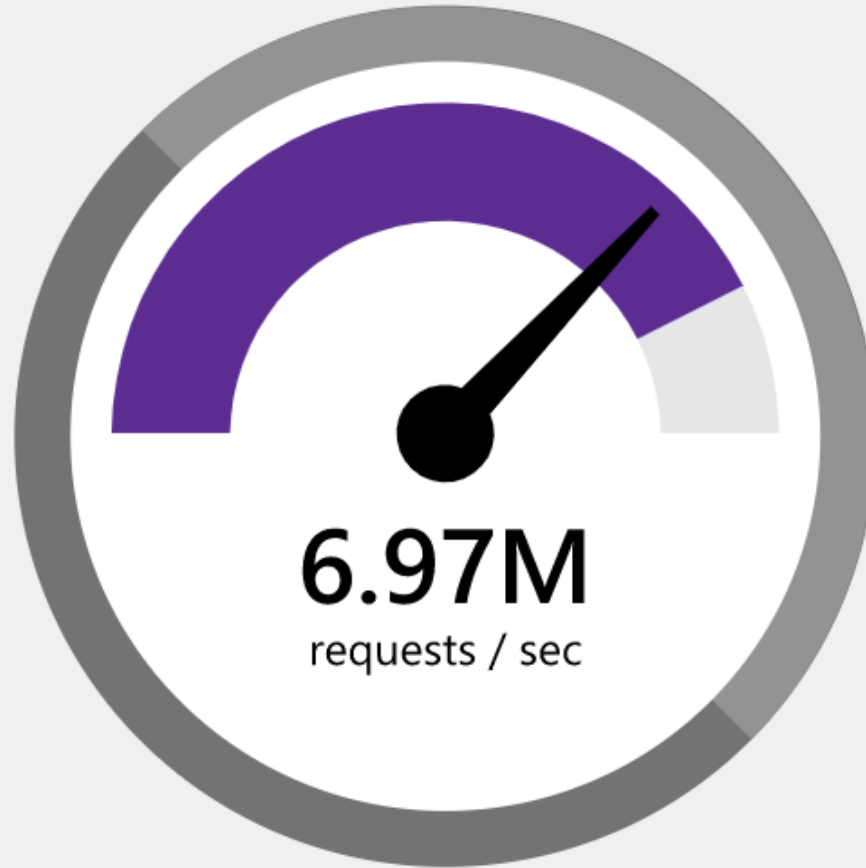


At the data level (Data Layer) is studied the ADO.NET technology for inter-operating with databases

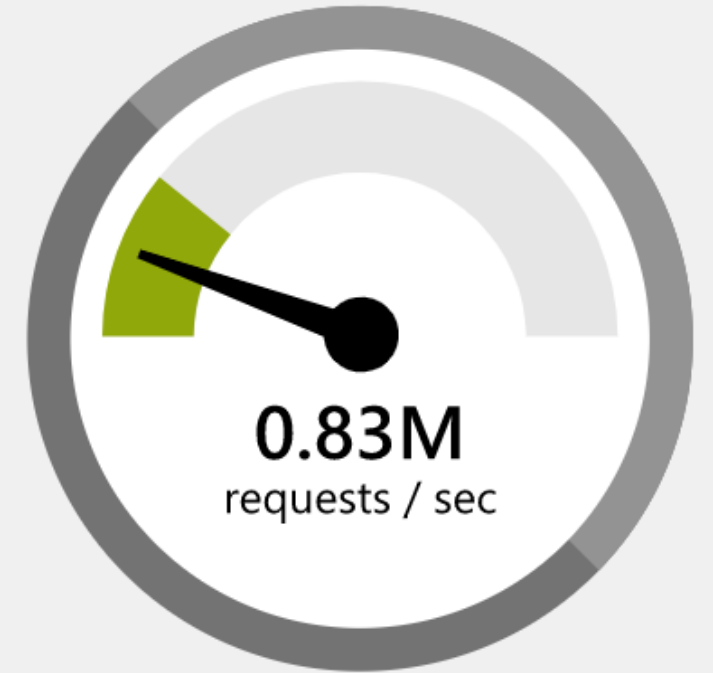




Java Servlet



.NET



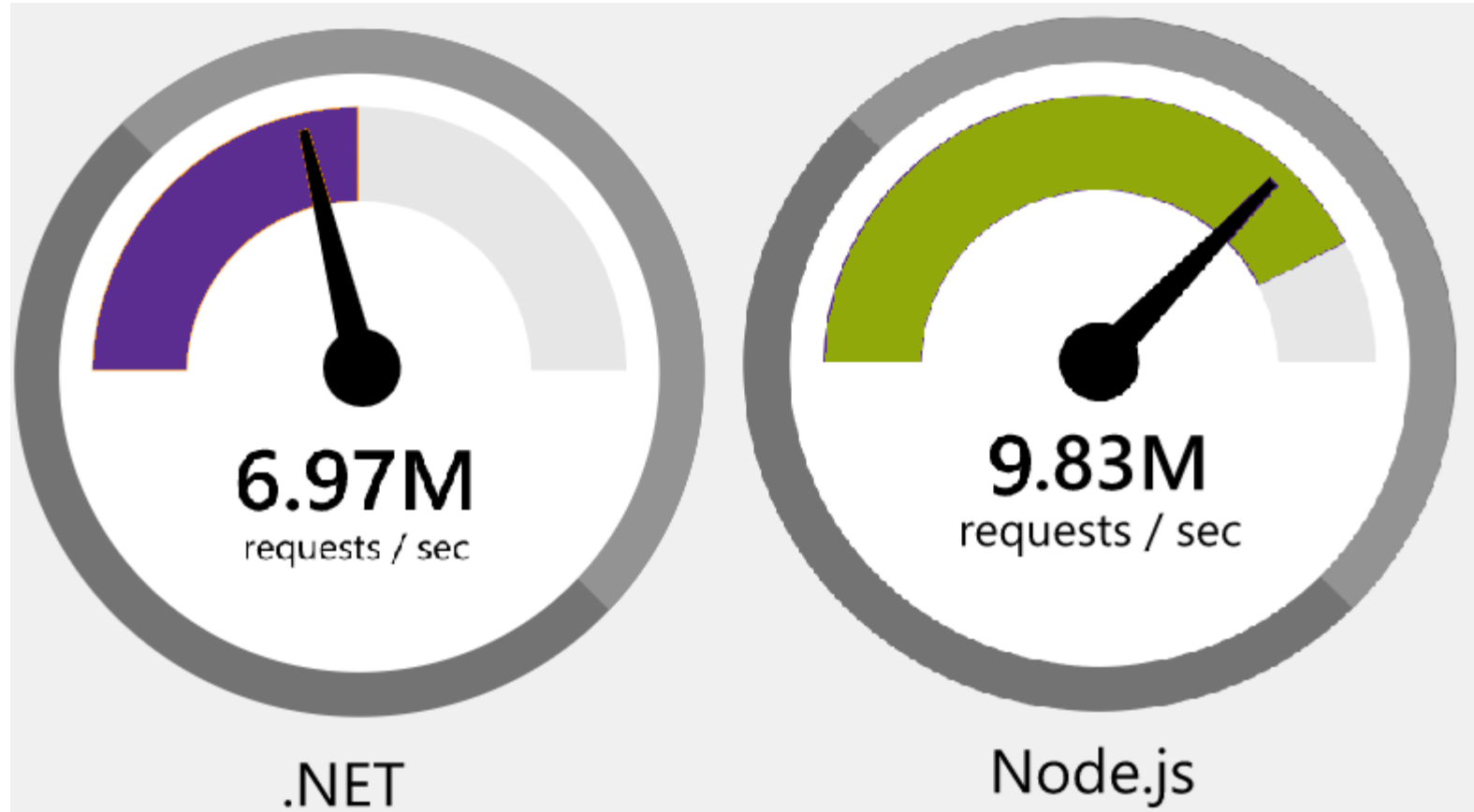
Node.js

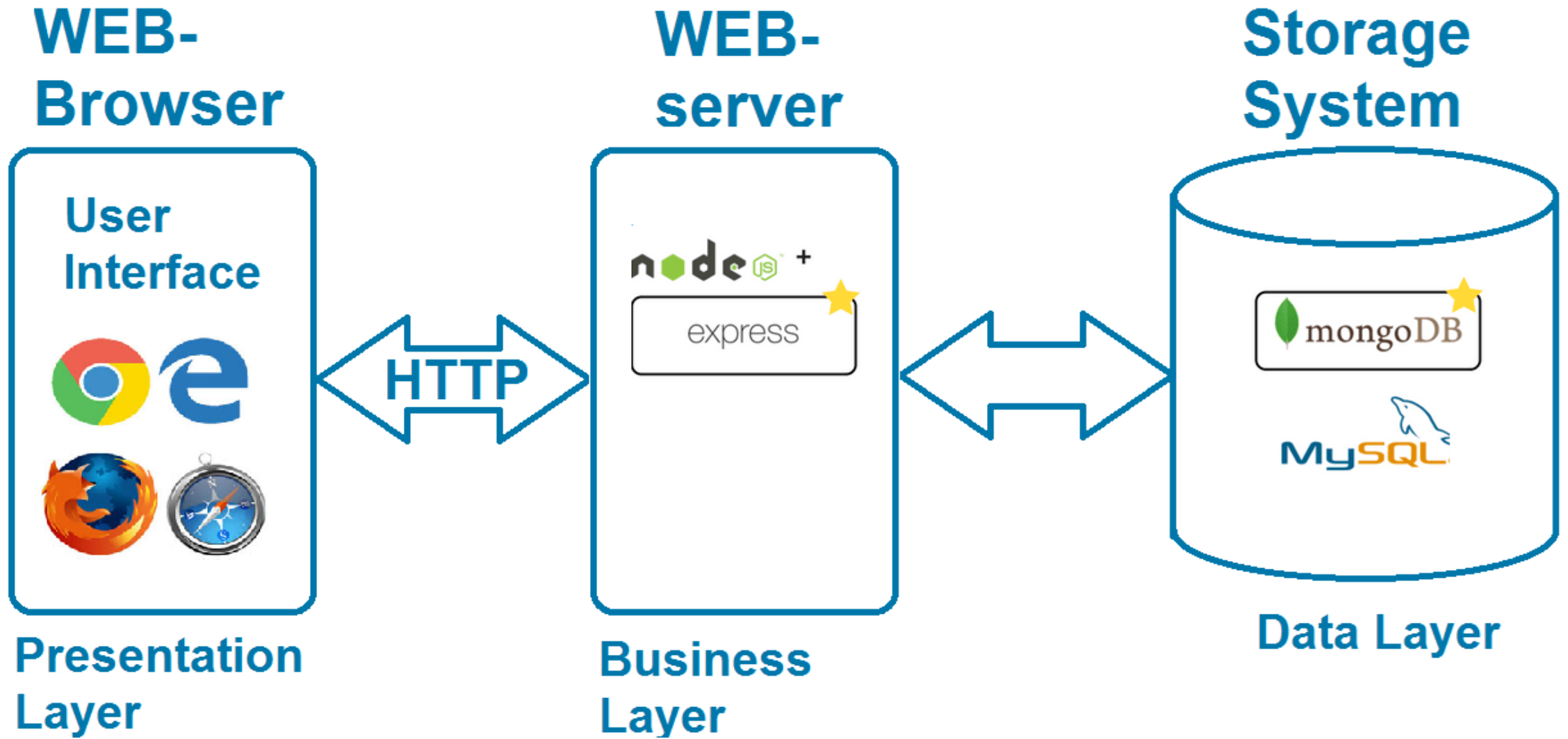
Such a selection is conditioned by the fact that today **ASP.NET** performs faster than any popular **WEB** framework.

If the situation
changes in a
year or two
and

Node.js
outperforms
ASP.NET

in speed or
popularity





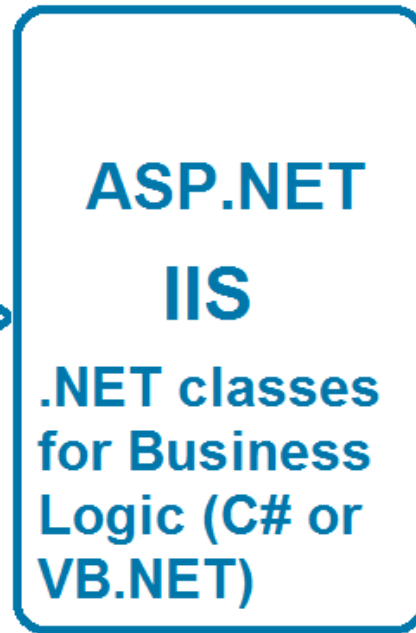
Then we will possibly learn **Node.js** at the server level.

WEB-Browser



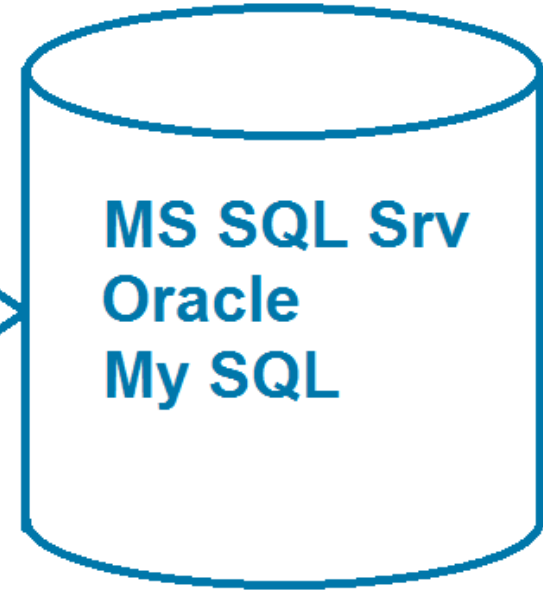
Presentation Layer

WEB-server



Business Layer

Storage System



Data Layer



**WEB-
server**

**ASP.NET
IIS**

.NET classes
for Business
Logic (C# or
VB.NET)

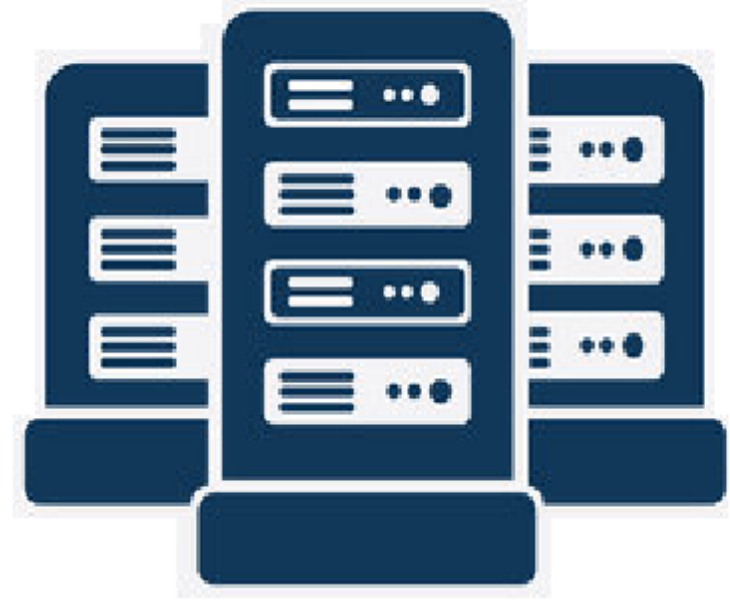
**Business
Layer**



**Storage
System**

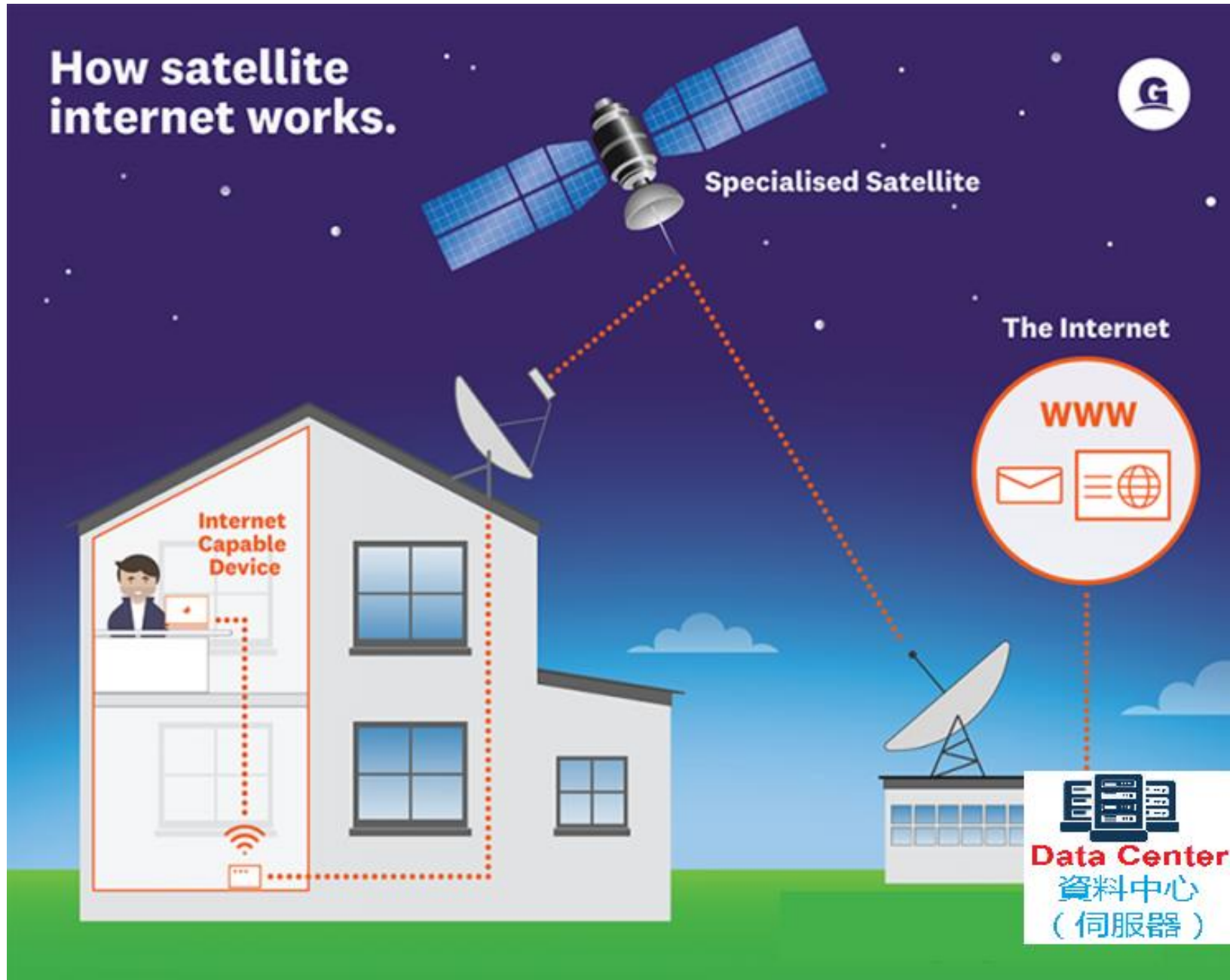
**MS SQL Srv
Oracle
My SQL**

Data Layer



Data Center

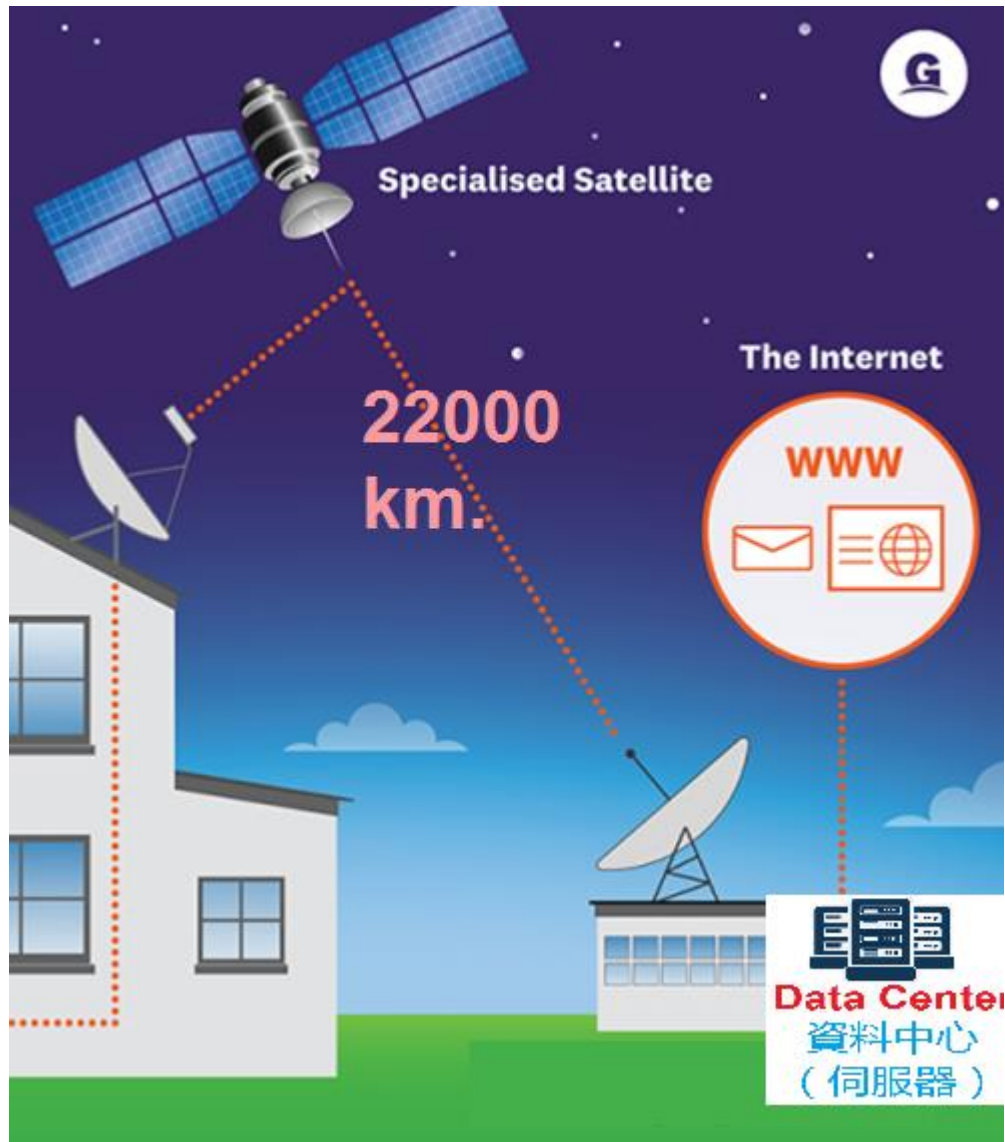
How satellite internet works.



Satellites. ○

From the data center, the signal can be sent through the antenna to the satellite ,

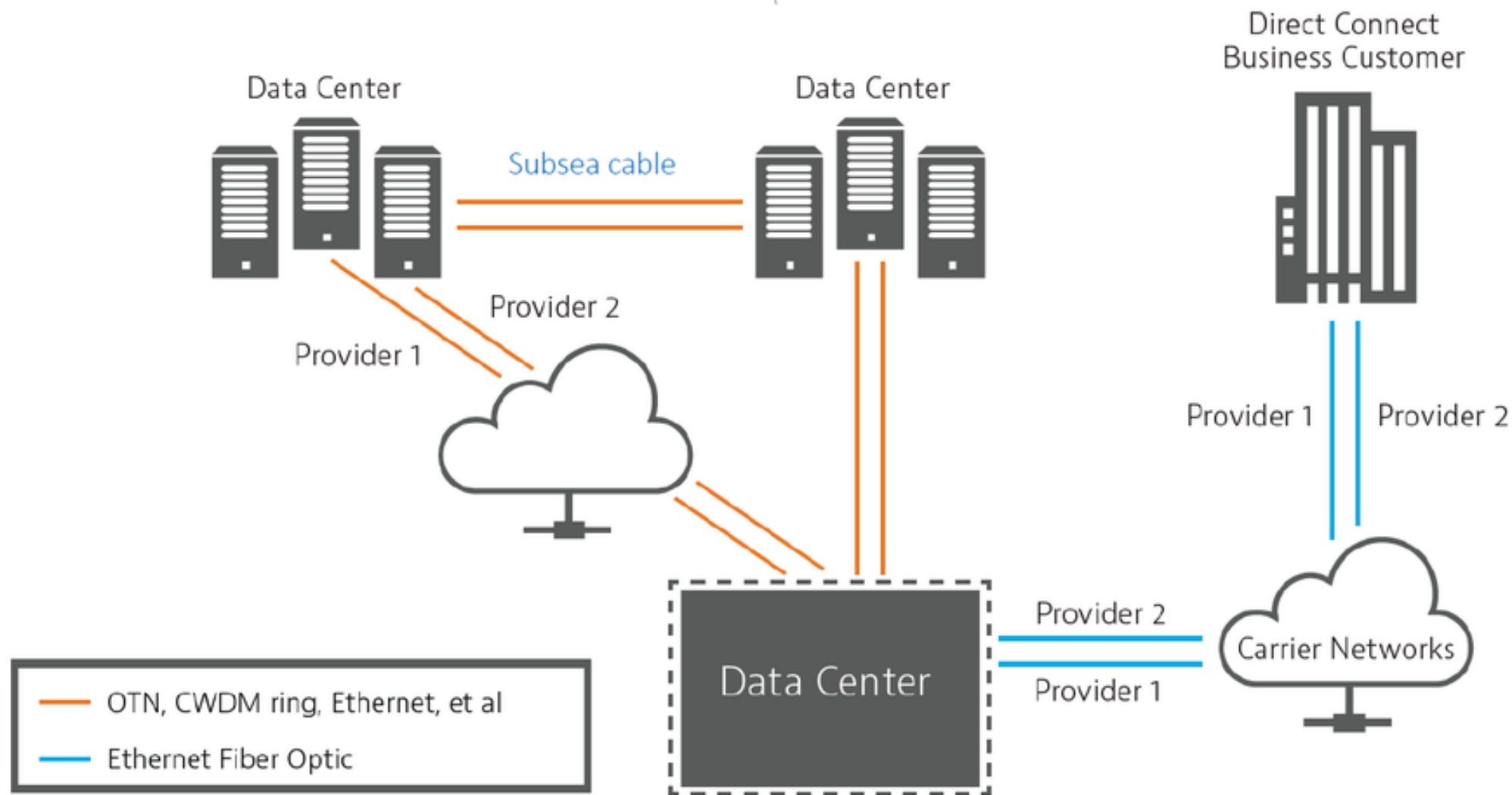
The satellite signal can then be sent to your phone via another antenna near you



The satellite is parked nearly 22,000 miles from Earth's equator, So in order for the data transfer to be successful, The data had to travel a total distance of 44,000 miles.

Such long travel distances can cause significant delays in receiving signals ◦

Data Center Interconnect

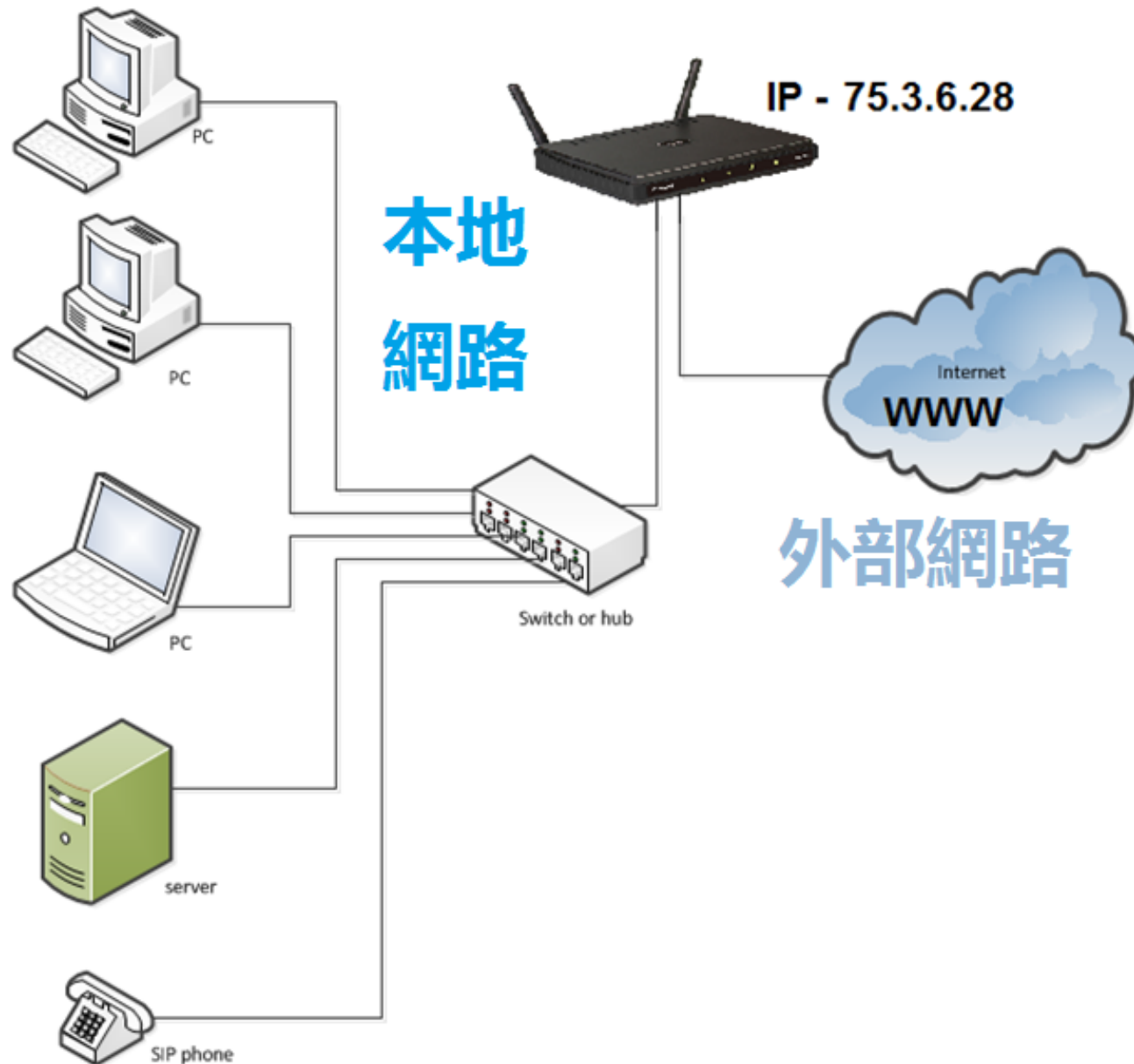




<https://www.youtube.com/watch?v=DKHZKTRyzeg>

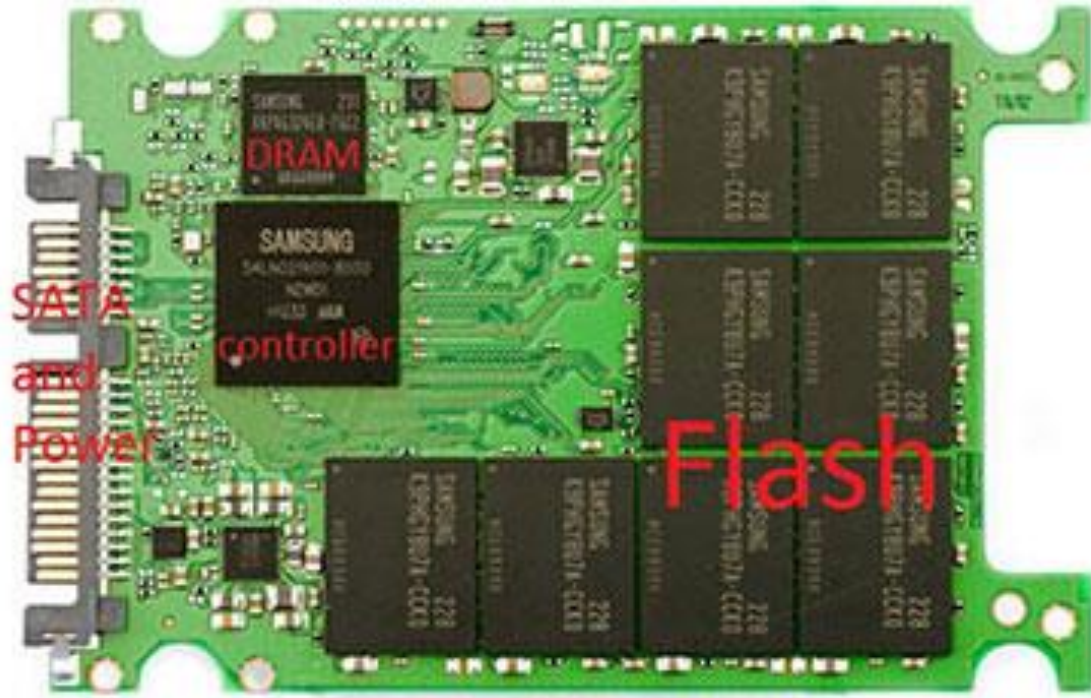
<https://www.youtube.com/watch?v=cAosCI51WWk>



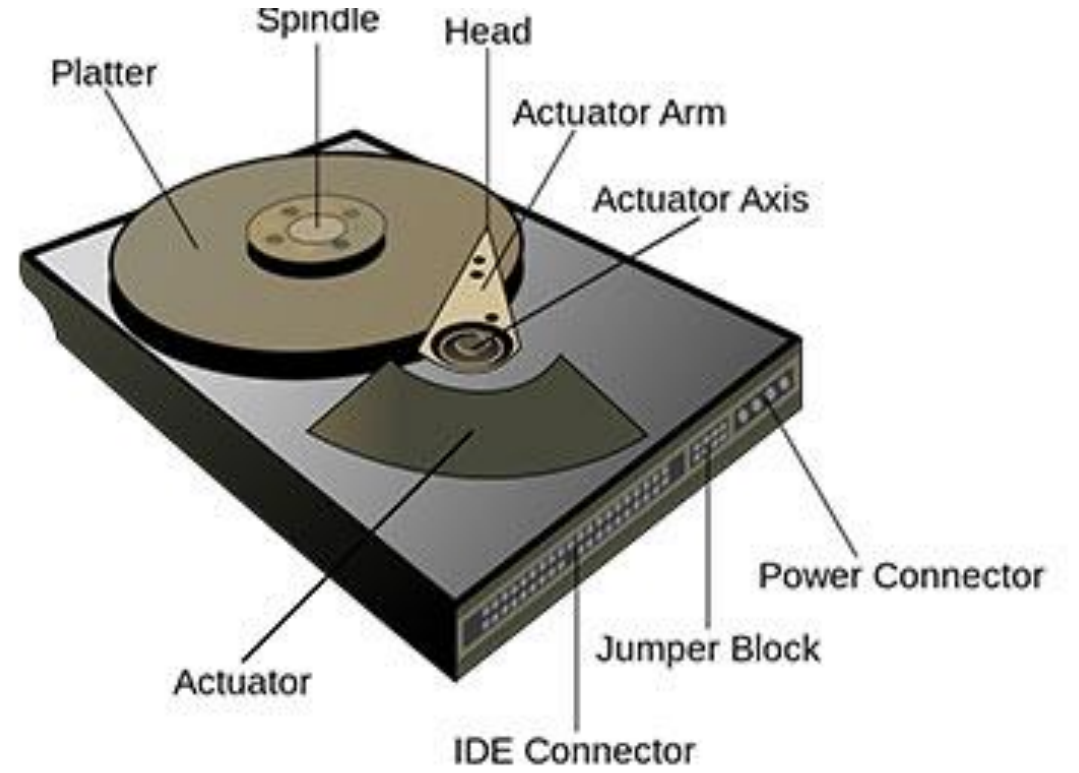


Your phone can connect to the Internet via cellular data or any Wi-Fi router.

But eventually at some point your phone will be connected to this fiber optic cable network



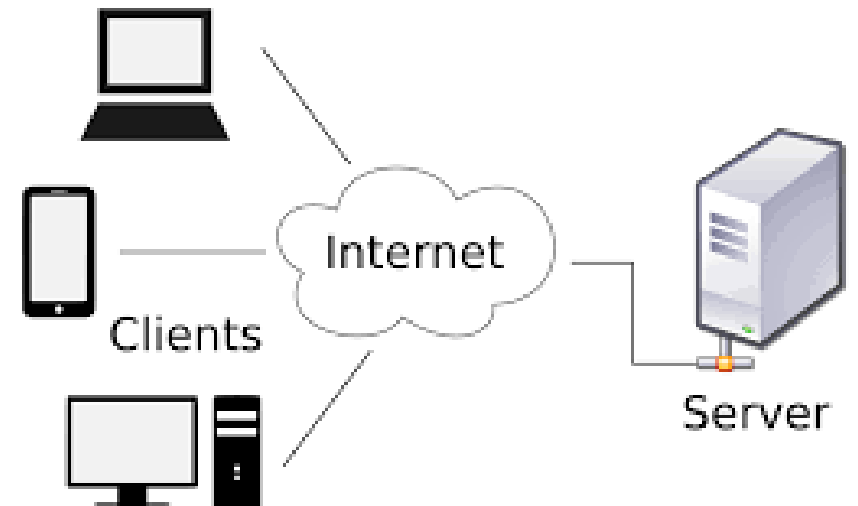
SSD

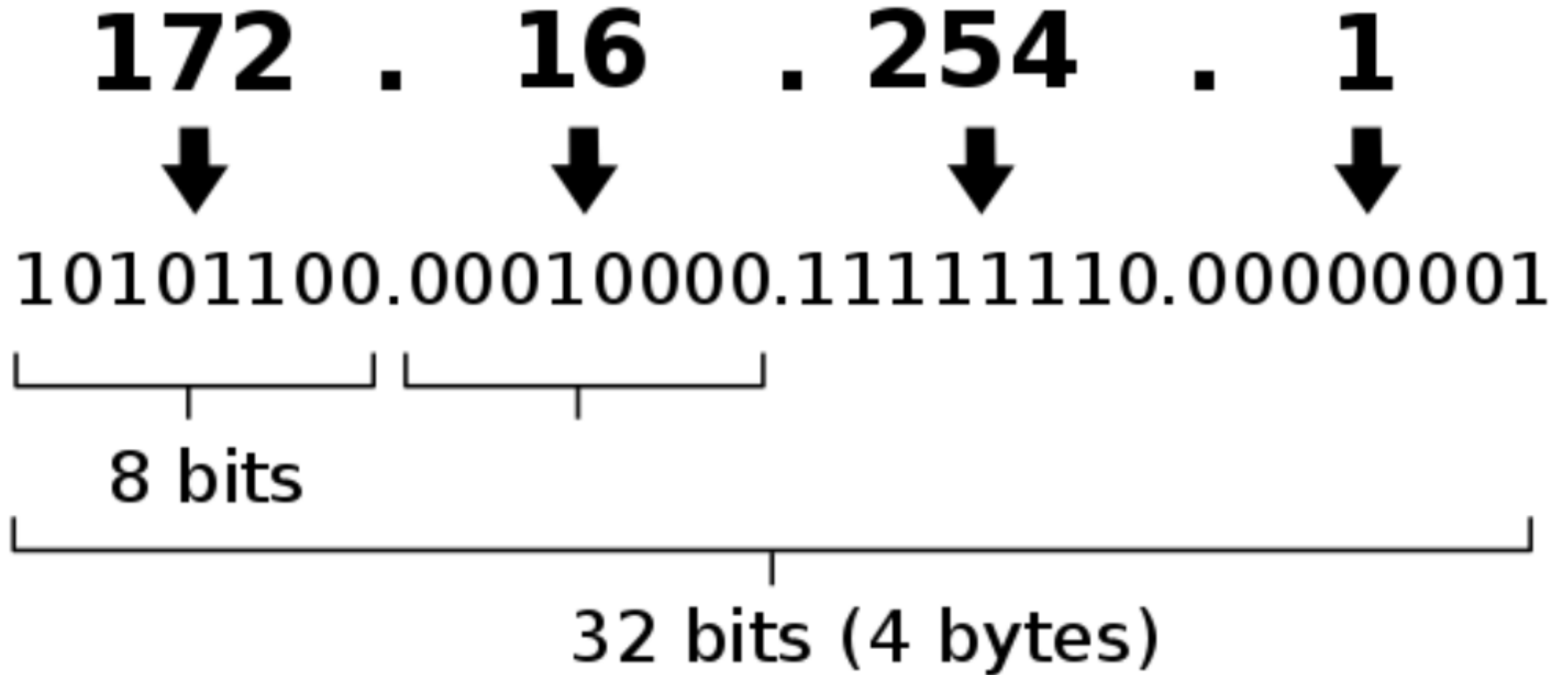


HDD



A server is
a powerful
computer





The concept of IP address

Where is error?

<https://www.youtube.com/watch?v=Il20rgzM6Oc>



GO window Help



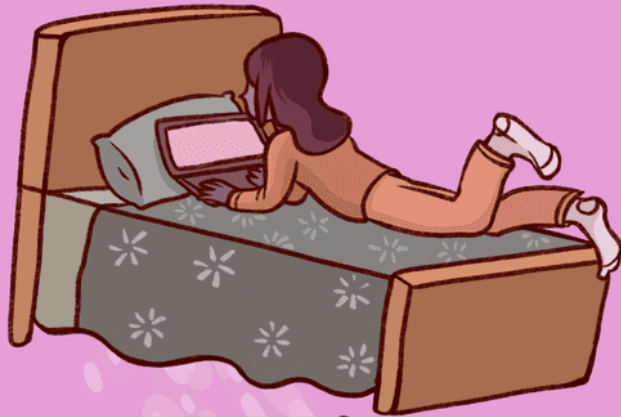
<http://275.3.6.28>

INTERNET

202.60.23.2
Public IP Address

192.168.0.2

192.168.0.3



PRIVATE
NETWORK



PRIVATE
NETWORK



192.168.0.100

Lifewire

cmd
ipconfig

```
DNS-суффикс подключения . . . . . :  
Локальный IPv6-адрес канала . . . : fe80::b9bd:341:e886:c980%3  
IPv4-адрес . . . . . : 192.168.100.13  
Маска подсети . . . . . : 255.255.255.0  
Основной шлюз . . . . . : 192.168.100.1
```

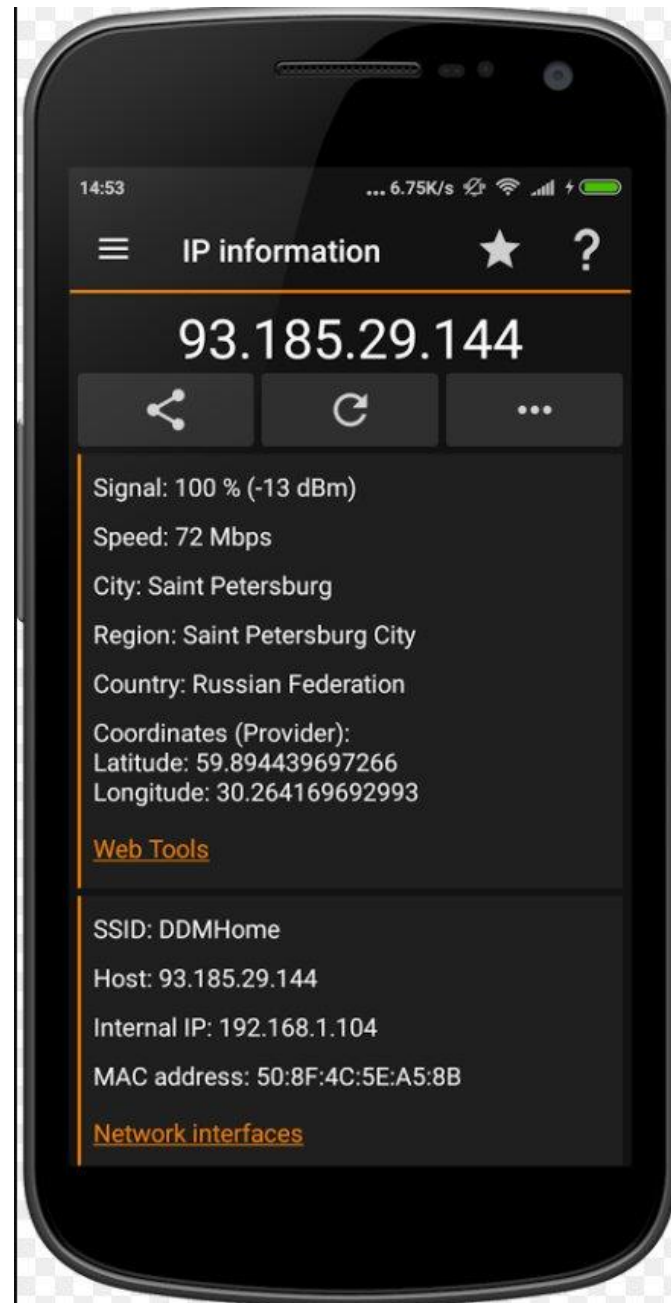
Google: How do I check the IP address of my phone?

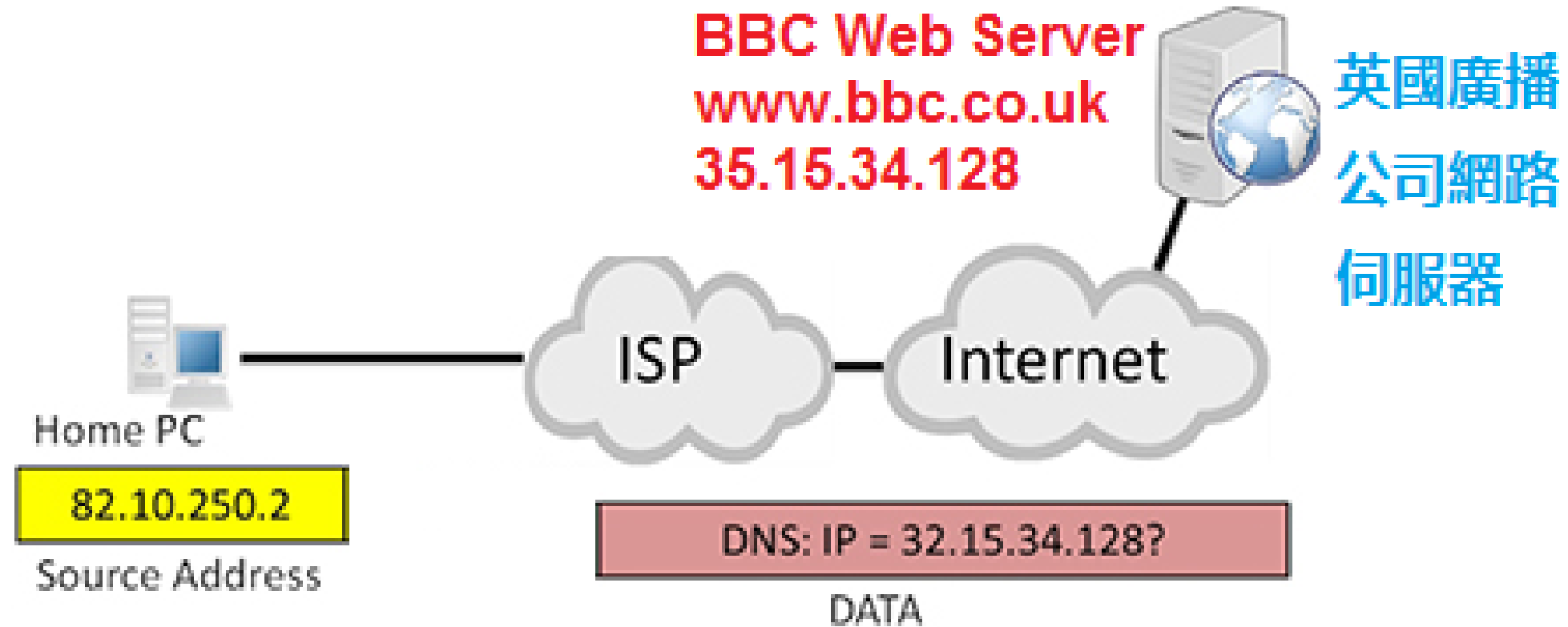


如何查看手機的 IP 位址？



百度一下



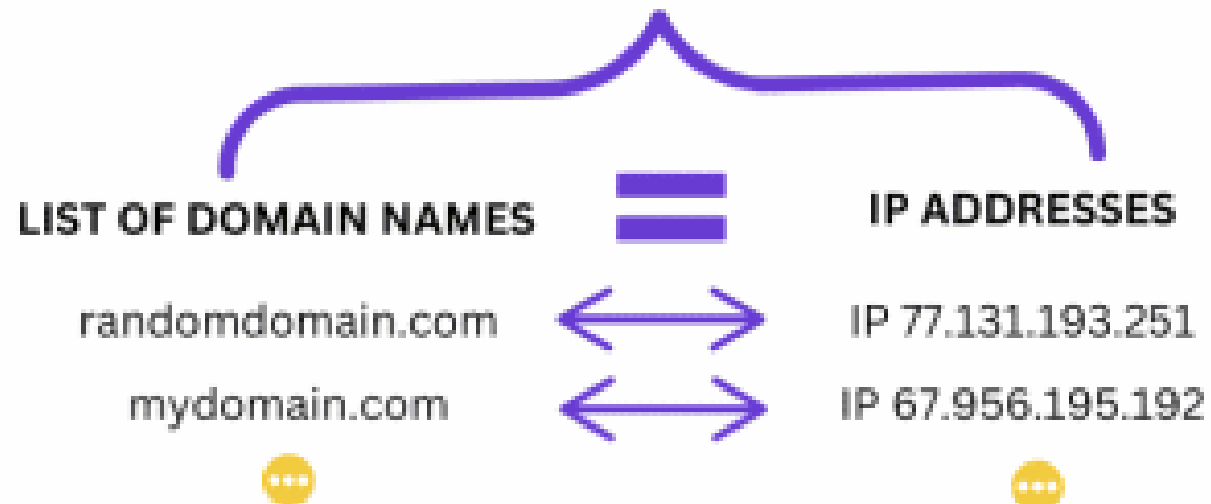


The domain name that corresponds to the IP address,
e.g. **bbc.co.uk** – **35.15.34.128**

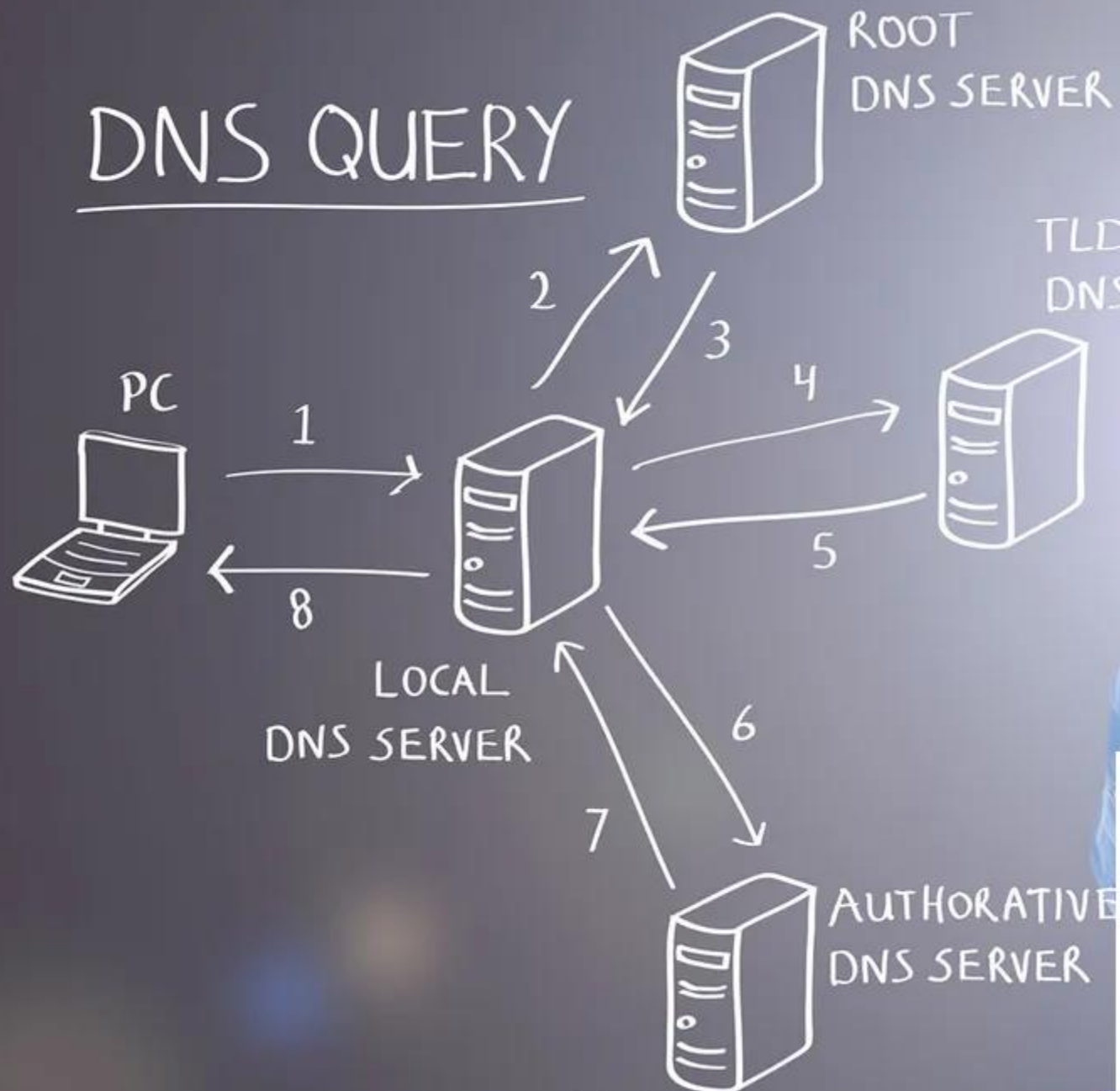
DNS (Domain Name System)

"The phonebook of the internet"

DOMAIN NAME SYSTEM



DNS QUERY



瀏覽器將請求發送到
DNS服務器

api.aws.amazon.com.

HOST

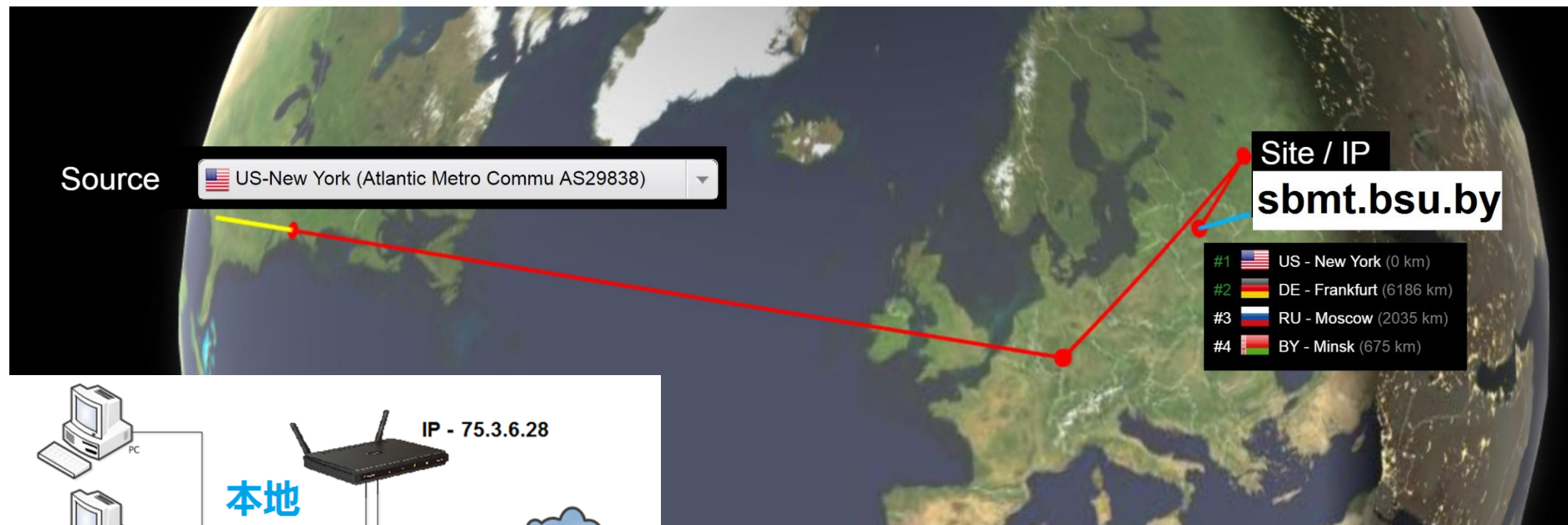
SLD

TLD

root

sub domain

Domain name

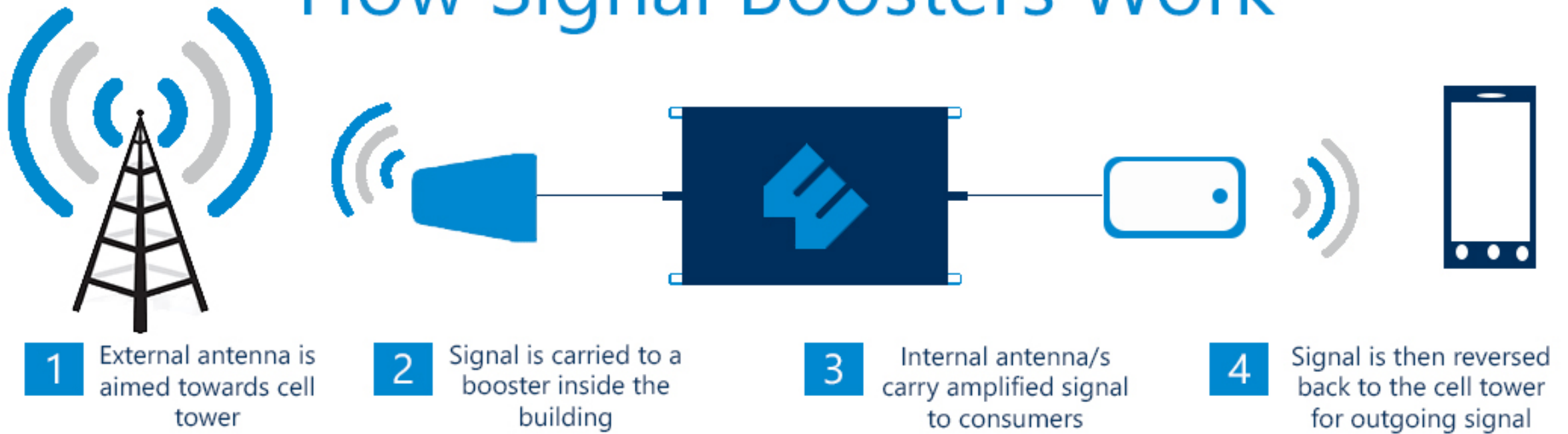




Cell towers
reach your
phone in the
form of
electro-
magnetic
waves

Sometimes a signal booster is used. The scheme then works as follows ◦

How Signal Boosters Work



How signal booster works

ICANN Around the World



Call one of our regional offices or submit a question online. Visit us at:

icann.org/contact

Regional Offices:

Los Angeles, U.S.A (Headquarters)

Brussels, Belgium

Istanbul, Turkey

Montevideo, Uruguay

Singapore

Engagement Centers:

Beijing, China

Geneva, Switzerland

Nairobi, Kenya

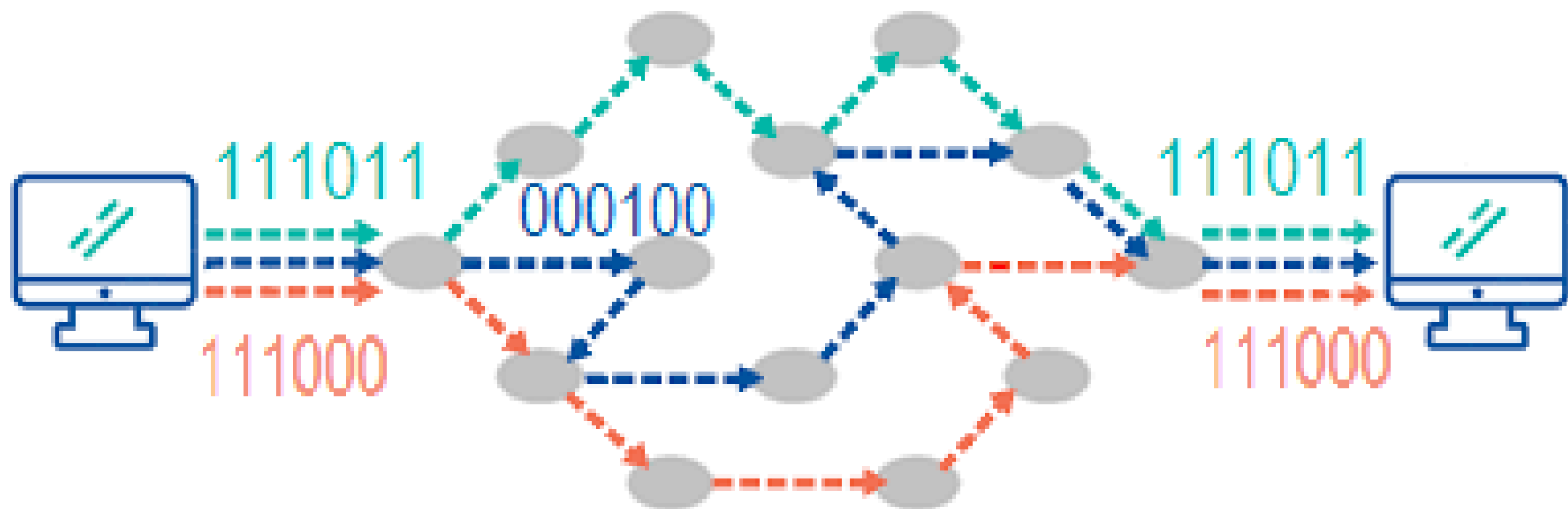
Washington, D.C., U.S.A.

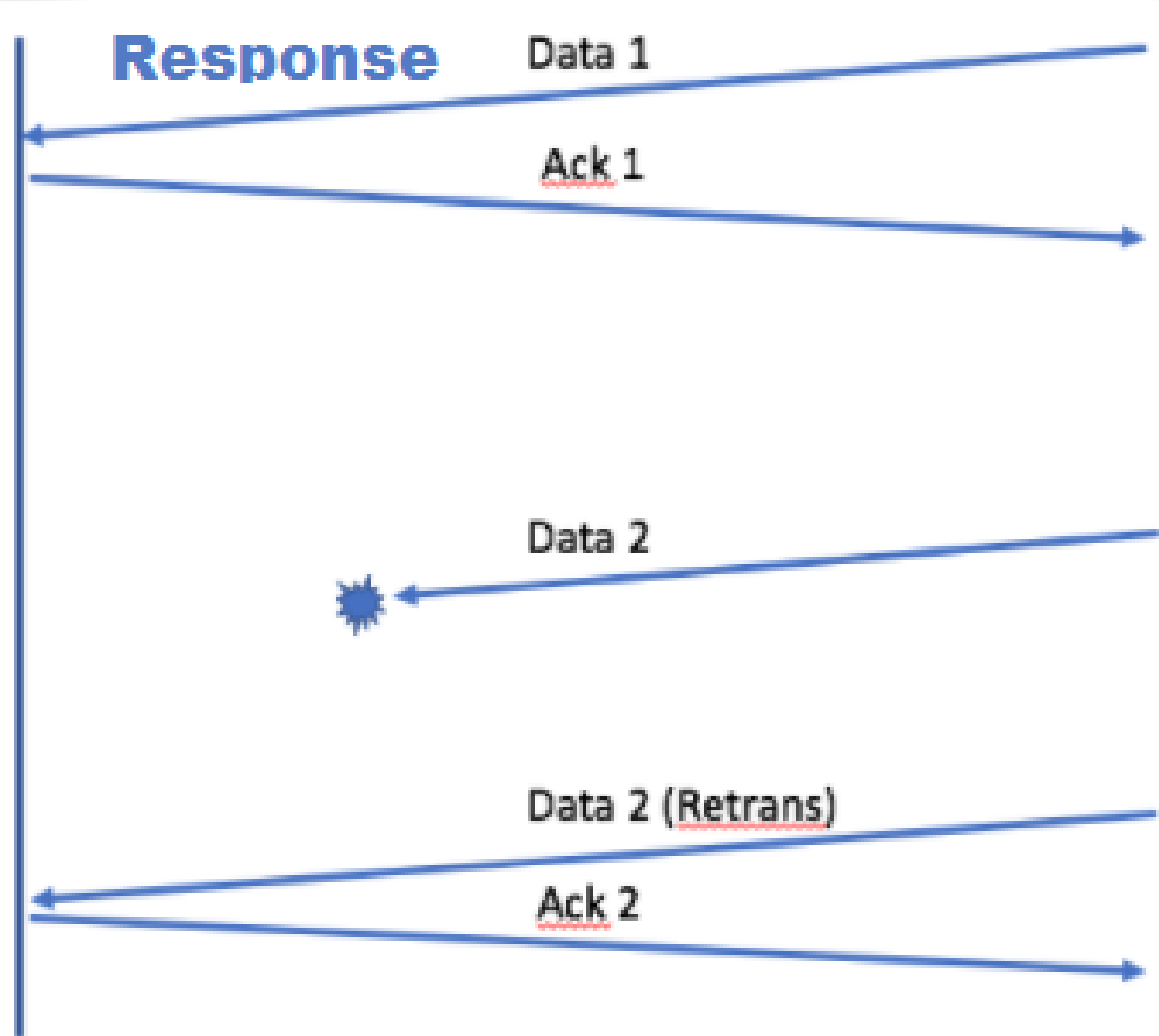
Partnership Centers:

Asunción, Paraguay

Cairo, Egypt

Seoul, Republic of Korea

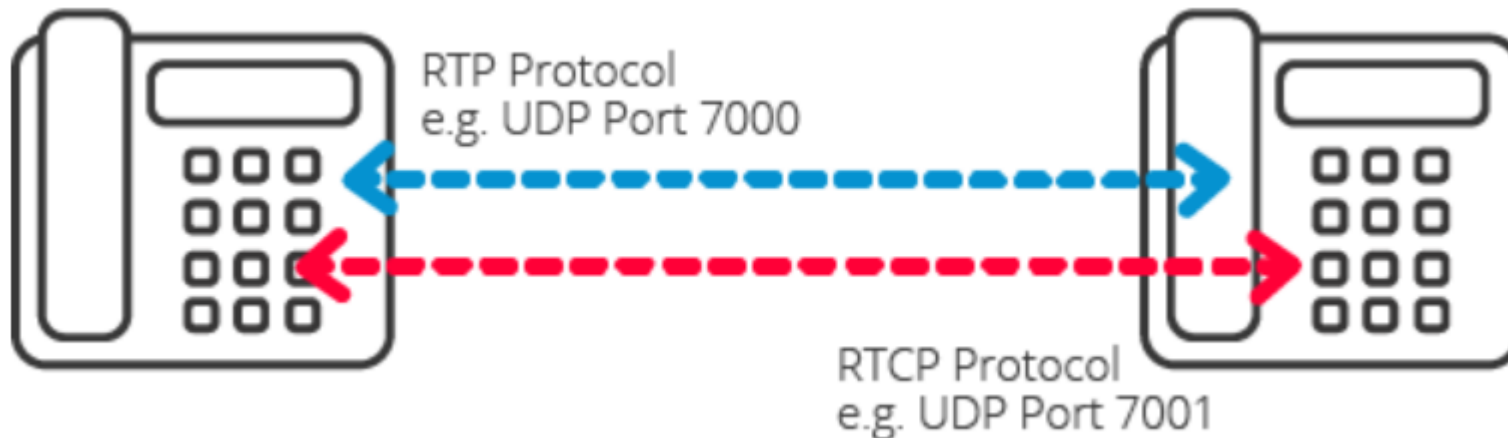
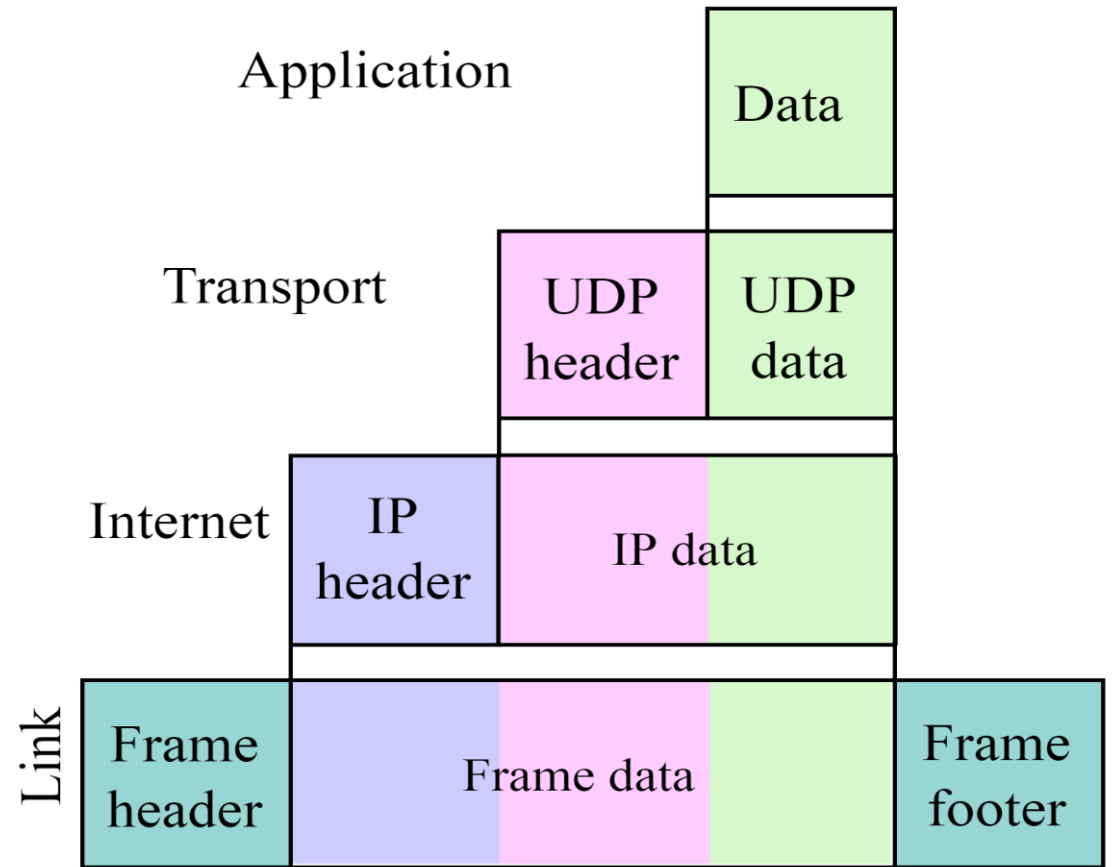
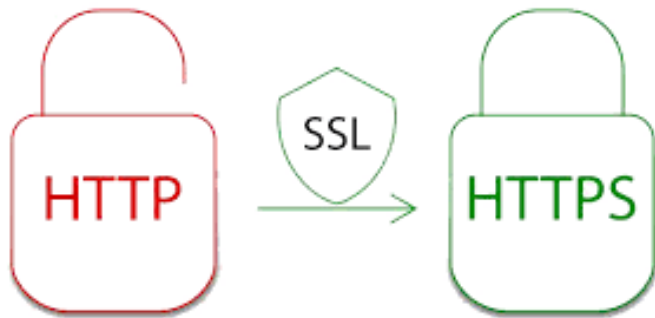




Resend
missing
packets

TCP/IP

TCP/IP - set of standards and rules defining how data is transmitted by network.



Real-Time Transport Protocol

RTP Control Protocol (RTCP)

File View Help

Connections

- Start Page
- WINDOWS2012R2 (WINDOWS)
- Application Pools
- Sites
 - contoso.test
 - test1

contoso.test Home

Filter: Go Show All Group by: Area

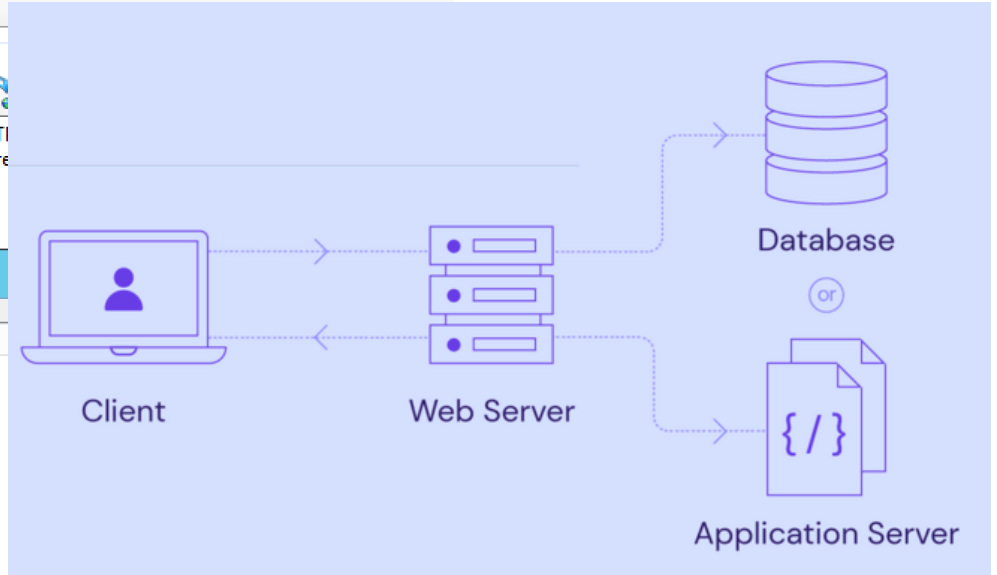
IIS

- Authentic...
- CGI
- Compression
- Default Document
- Directory Browsing
- Error Pages
- Failed Request Tra...
- Handler Mappings
- HTTP Redire
- Modules
- Output Caching
- Management
 - Configurat... Editor
 - Web Platfor...

Site Bindings

Type	Host Name	Port	IP Address	Binding Informa...
http	contoso.test	80	*	
http	dev.contoso.test	80	*	
https	secure.contoso.t...	443	*	

Close



***.b-site.net 5.161.102.56

```
C:\Windows\System32>ping confucius.b-site.net
```

```
Обмен пакетами с confucius.b-site.net [5.161.102.56] с 32 байтами данных:
```

```
Ответ от 5.161.102.56: число байт=32 время=140мс TTL=48
```

```
Ответ от 5.161.102.56: число байт=32 время=126мс TTL=48
```

```
Ответ от 5.161.102.56: число байт=32 время=126мс TTL=48
```

```
Ответ от 5.161.102.56: число байт=32 время=138мс TTL=48
```

```
Статистика Ping для 5.161.102.56:
```

```
Пакетов: отправлено = 4, получено = 4, потеряно = 0  
(0% потерь)
```

```
Приблизительное время приема-передачи в мс:
```

```
Минимальное = 126мсек, Максимальное = 140 мсек, Среднее = 132 мсек
```

```
C:\Windows\System32>ping esperanto.b-site.net
```

```
Обмен пакетами с esperanto.b-site.net [5.161.102.56] с 32 байтами данных:
```

```
Ответ от 5.161.102.56: число байт=32 время=126мс TTL=48
```

```
Ответ от 5.161.102.56: число байт=32 время=126мс TTL=48
```

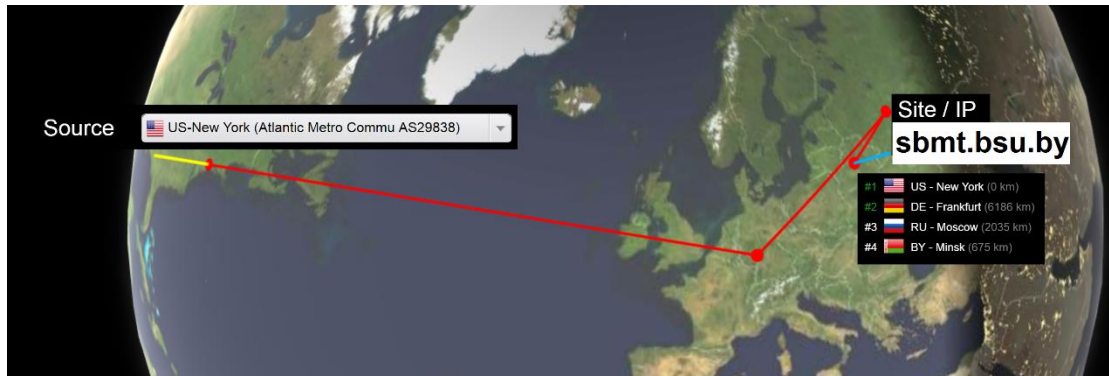
```
Ответ от 5.161.102.56: число байт=32 время=143мс TTL=48
```

```
Ответ от 5.161.102.56: число байт=32 время=130мс TTL=48
```

```
Статистика Ping для 5.161.102.56:
```

If we ping 2
websites :
confucius.b-site.net
esperanto.b-site.net
Then we will see
that they have
the same IP
address

geotraceroute.com

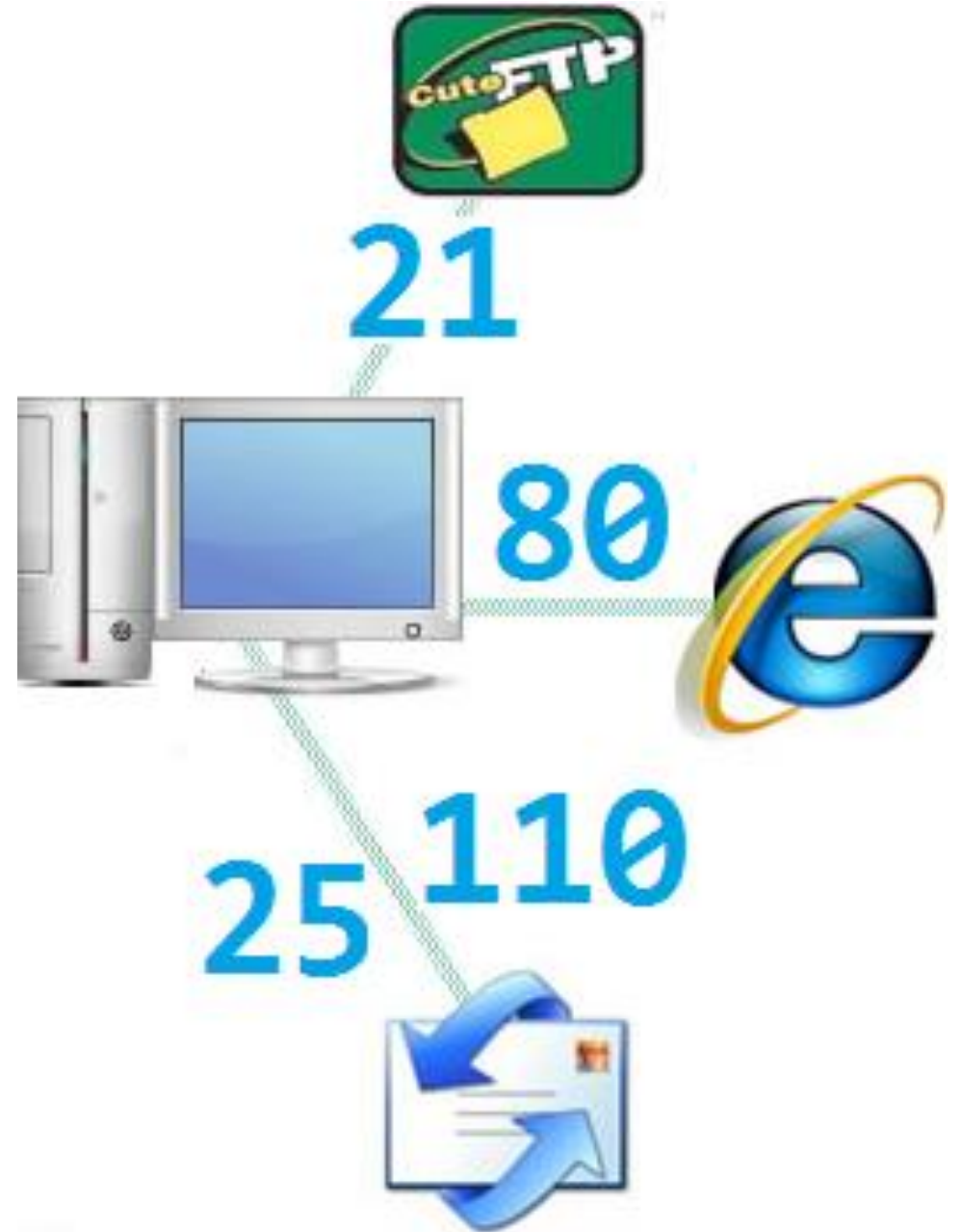


Who can use this site -
<https://geotraceroute.com/> -
determines where this site is
located ?

Port

Port - an identifier by which devices determine what type of data is contained in sent or received packets, eg,

<http://www.site.com:80/index.htm>



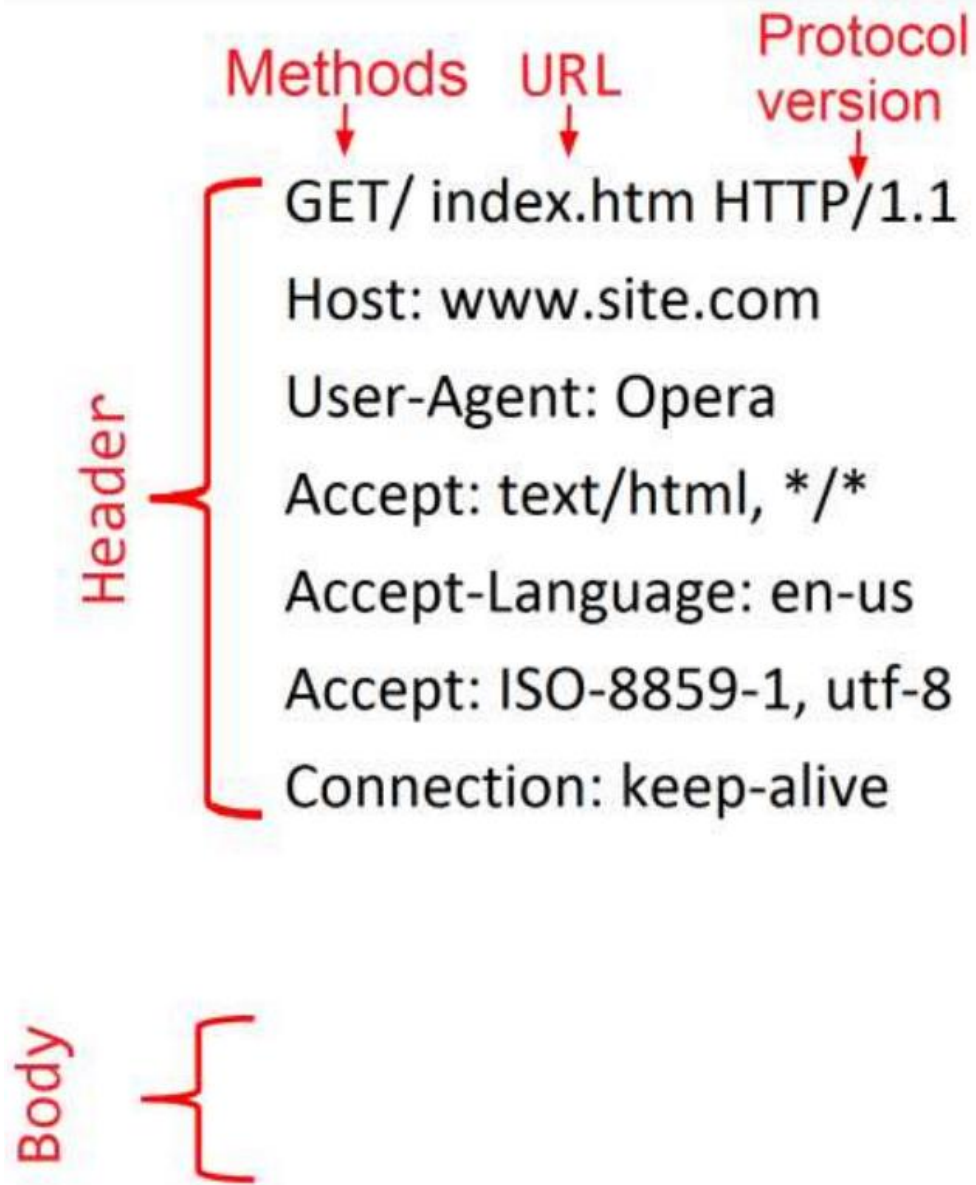


Request



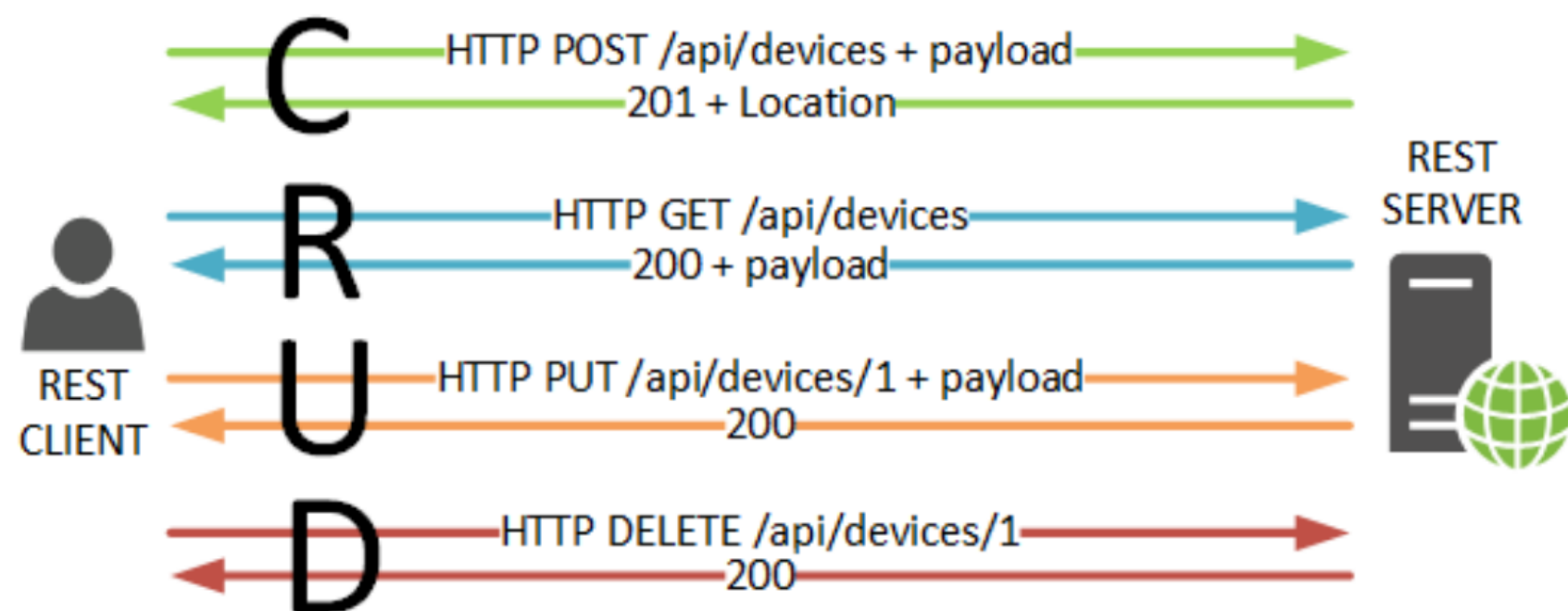
Response





- . GET — getting a resource
- . POST — resource creation
- . PUT — resource update
- . DELETE — resource deletion

Method		Request		Response	
		URL	Body	Status	Body
1	GET	Yes	No	Yes	Yes
2	PUT	Yes	Yes	Yes	No
3	POST	Yes	Yes	Yes	Yes
4	DELETE	Yes	No	Yes	No



Version Status Message
 status

Header { HTTP/1.1 200 OK
Date: Sun, 21 Jul 2019
23:17 GMT
Server: IIS /6.0
Content-Type: text/html;
charset=UTF-8
Content-Length: 7686

Blank line

Body { <html>
....
</html>

HTTP

1.1 200 OK

**Server,
Content-type,
Content-Length**

**IIS, text/html;
charset=UTF-8**

Status Codes

1xx: Informational Messages

100 continue, which means that the client is still sending the rest of the request.

2xx: Success Messages

200 OK

If the client received the code from the 2xx series, then the request was successful.

3xx: Redirection

301 Moved Permanently: The resource can now be found at a different URL.

4xx: Client Errors

404 Not Found. Resource not found on server.

401 Unauthorized: Authentication is required to complete a request. Information is passed through the Authorization header.

403 Forbidden: сервер не открыл доступ к ресурсу.

5xx: Server Errors

500 Internal Server Error.

503 Service Unavailable: this can happen if an error occurred on the server or it is overloaded.

freeasphosting.net

ASP.NET
Hosting .NET 7

FREE ASP.NET Hosting
FREE Domain Hosting
FREE MS SQL Database
INCLUDES .NET Core
Full Trust Permissions

SIGN UP FOR FREE

Create Your Free Site

 Confucius@studentweb.cc

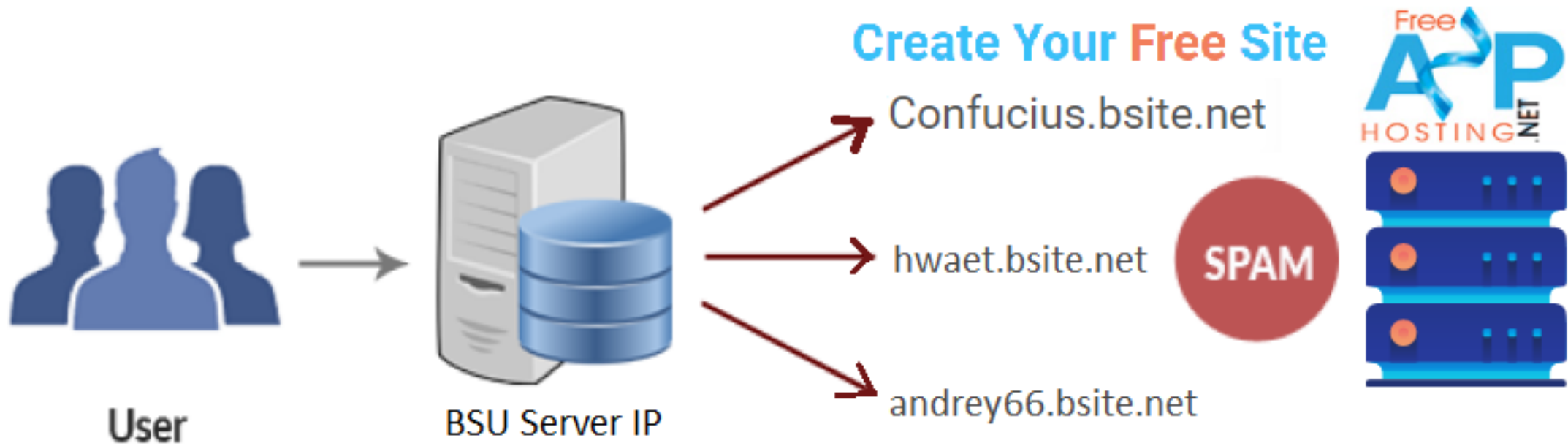
 https://Confucius.bsite.net



By signing up with our service you agree
to our [Terms & Conditions.](#)

Create Site

Sign up for free
hosting at
freeasphosting.net.
Somehow later.
From home 。

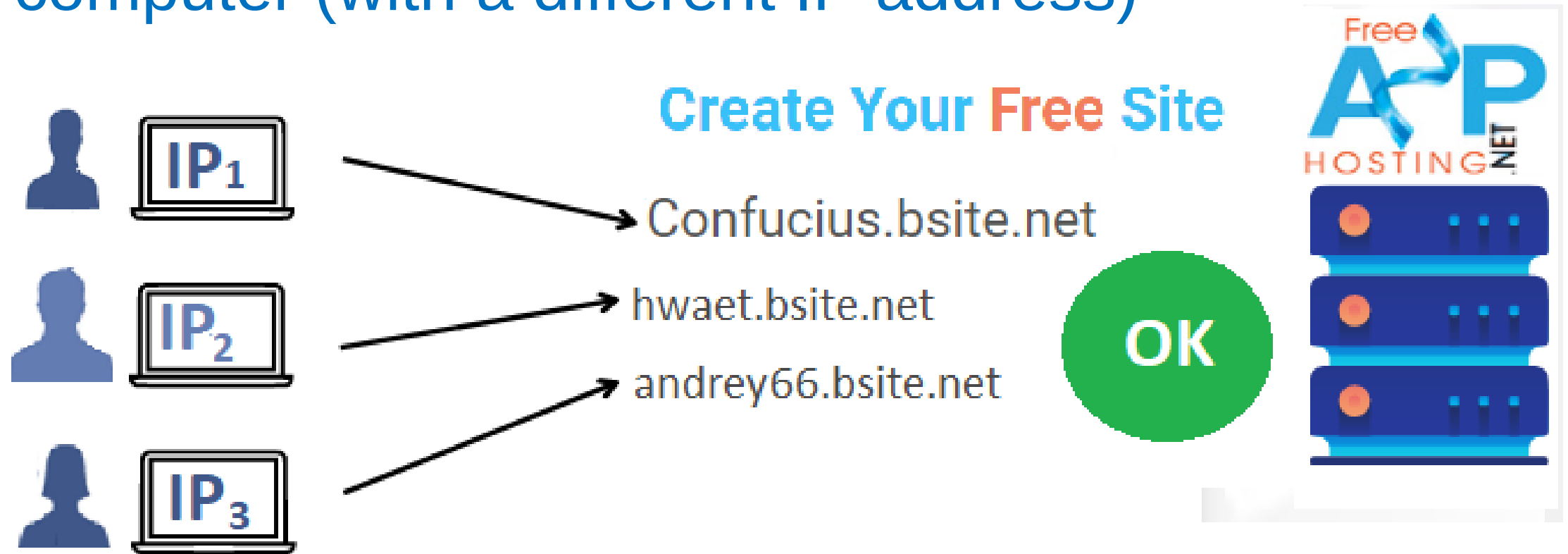


At home, because many hosting services are not registered from one IP address.

If dozens of hosts try to register from a single IP address,
freeaspohosting.net

The server may think this is a SPAM and block the IP (BSU IP) ◦

The freeasphosting.net server does not raise any suspicion if the registration is made from a different computer (with a different IP address)

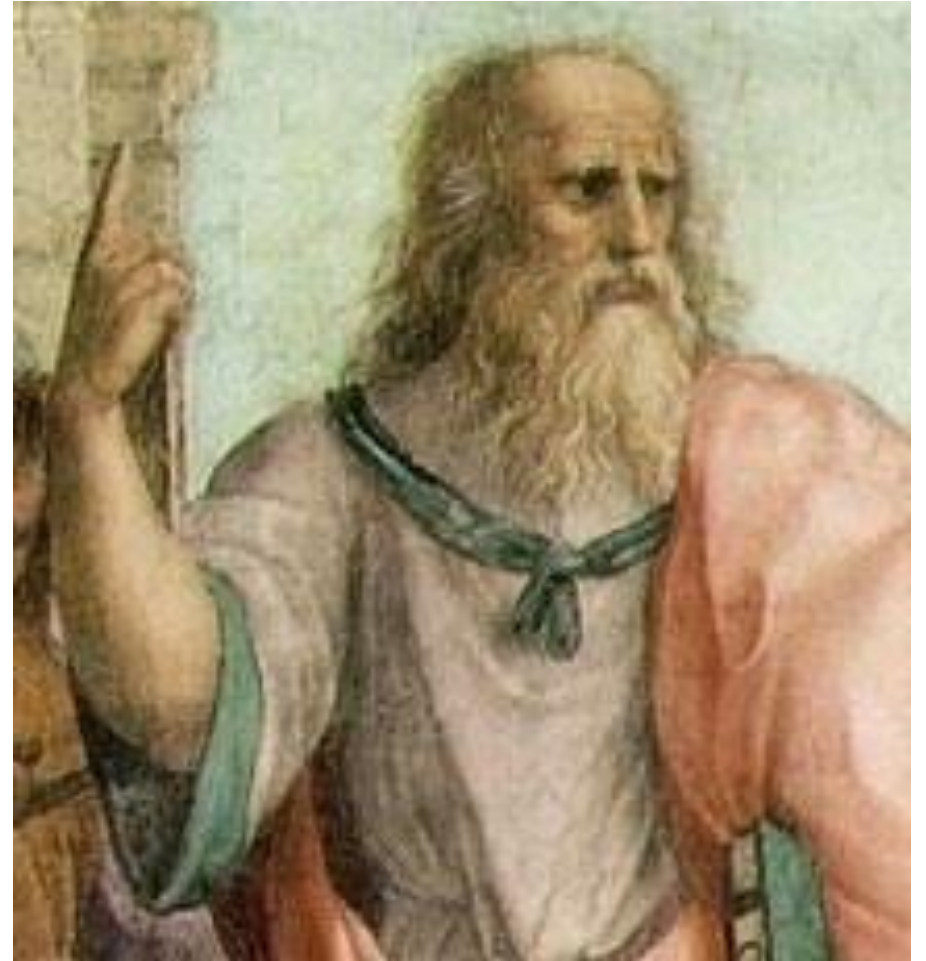


After registering on the server, please email your URL address (you received it during the registration process) Send it to me to **AO@asp.net.by**

Choose a good name for your website

I came up with a name for my website – Plato –
www.plato.bsite.net

(in my opinion, this is a good name)

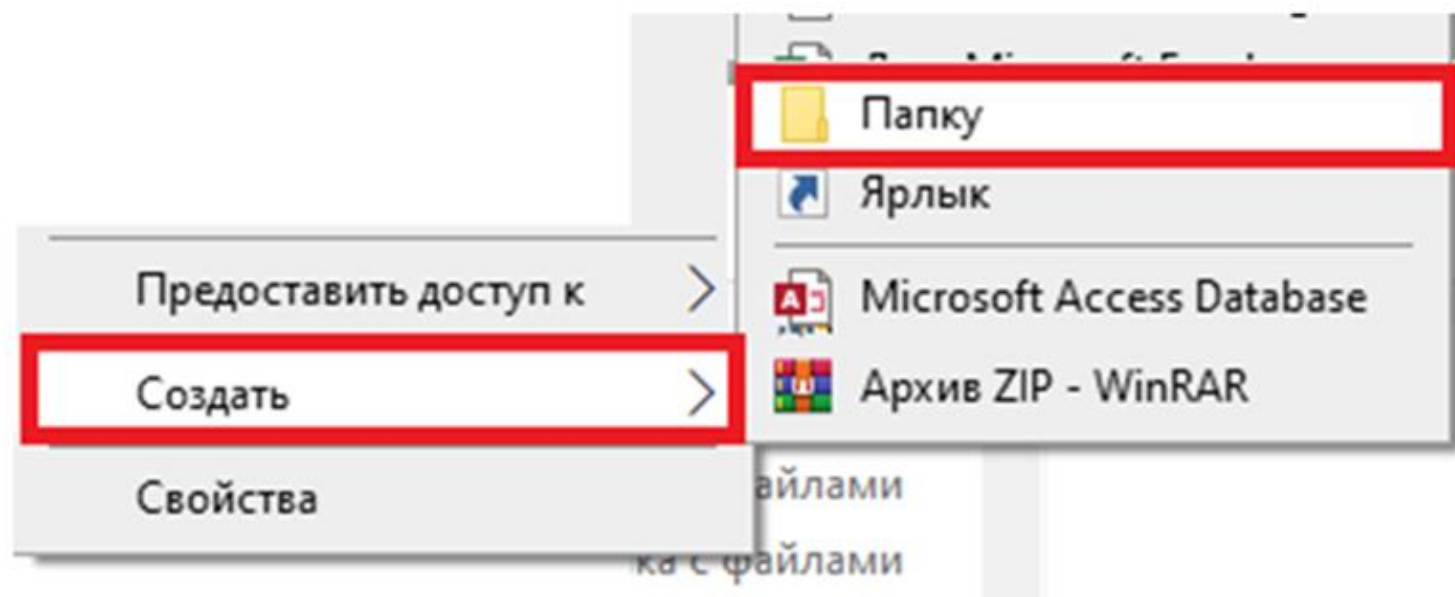


1. On a HDD-disk or on a flash drive, make a folder that matches the name of the site

www.plato.bsite.net

Новый том (D:) >

 **www.plato.bsite.net**



2. In a folder **D:\www.plato.bsite.net**
create a folder for Projects

D:\www.plato.bsite.net \Projects

3. In a folder **D:\www.plato.bsite.net \Projects**
create a folder for Projects

Number 0

D:\www.plato.bsite.net \Projects \0

4. In a folder

D:\www.confucius.bsite.net\Projects\0

create file *index.htm*

D:\www.confucius.bsite.net\Projects\0

index.htm

And when everything will ready (for everyone) - tell me:
send me e-mail to

AO@asp.net.by

Appendix. What Is DNS and How It Works



Pushkin "The Tale of the Dead Princess and the Seven Knights"

Prince Yelisei - was looking for his
bride,
asking about
her location
peoples,
Sun,
Moon
Wind.



The wind helped
Yelisei by showing him the way.



Pushkin "The Tale of the Dead Princess and the Seven Knights"

Meanwhile, Prince Yelisei is
galloping around the world after his
bride. No, of course not! He cries
bitterly, **And whoever he asks**,
His question is wise to everyone;
Whoever laughs in his face,
Whoever turns away sooner;



<https://youtu.be/f7vmkGD9qVU>

За невестою своею
Корольевич Елисей
Между тем по свету скачет.
Нет как нет! Он горько плачет,
И кого ни спросит он,
Всем вопрос его мудрен;
Кто в глаза ему смеется,
Кто скорее отвернется;

“Sun, dear Sun! The whole year
coursing
Through the sky, in springtime
thawing
From the chill earth winter snow!
You observe us all below.
Surely you’ll not grudge an
answer?
Tell me, did you ever chance to
See the Princess I revere?
I’m her fiancé.” “My dear,”
Said the Sun with some insistence,
“I have nowhere seen your
Princess,
So she’s dead, we must presume,
That is, if my friend, the Moon,
Has not met her on his travels
Or seen clues you may unravel.”



«Свет наш солнышко! Ты
ходишь
Круглый год по небу,водишь
Зиму с теплою весной,
Всех нас видишь под собой.
Аль откажешь мне в ответе?
Не видало ль где на свете
Ты царевны молодой?
Я жених ей». — «Свет ты мой,
—
Красно солнце отвечало, —
Я царевны не видало.
Знать ее в живых уж нет.
Разве месяц, мой сосед,
Где-нибудь ее да встретил
Или след ее заметил».

“Moon, O Moon, my friend!” he said,
“Gold of horn and round of head,
From the darkest shadows rising,
With your eye the world apprising,
You whom stars with love regard
As you mount your nightly guard!
Surely you’ll not grudge an answer?
Tell me, did you ever chance to
See the Princess I revere?
I’m her fiancé.” “O dear!”
Said the Moon in consternation,
“No, I have not seen the maiden.
On my round I only go
When it is my turn, you know.
It would seem that I was resting
When she passed.” “How very
vexing
Cried aloud Prince Yelisei.
But the Moon went on to say:
“Wait a minute! I suggest you
Have the Wind come to the resclie.
Call him now! It’s worth a try.
And cheer up a bit! Goodbye!”



«Месяц, месяц, мой дружок,
Позолоченный рожок!
Ты встаешь во тьме глубокой,
Круглолицый, светлоокий,
И, обычай твой любя,
Звезды смотрят на тебя.
Аль откажешь мне в ответе?
Не видал ли где на свете
Ты царевны молодой?
Я жених ей». — «Братец мой,
Отвечает месяц ясный, —
Не видал я девы красной.
На стороже я стою
Только в очередь мою.
Без меня царевна, видно,
Пробежала». — «Как обидно!» —
Королевич отвечал.
Ясный месяц продолжал:
«Погоди; об ней, быть может,
Ветер знает. Он поможет.
Ты к нему теперь ступай,
Не печалься же, прощай»

“Wind, O Wind! Lord of the sky,
Herding flocks of clouds on high,
Stirring up the dark-blue ocean,
Setting all the air in motion,
Unafraid of anyone
Saving God in heaven alone!
Surely you’ll not grudge an answer?
Tell me, did you ever chance to
See the Princess I revere?
I’m her fiancé.” “O hear!”
Said the Wind in turmoil blowing.
“Where a quiet stream is flowing
Stands a mountain high and steep
In it lies a cavern deep;
In this cave in shadows dismal
Sways a coffin made of crystal.
Hung by chains from pillars six.
Round it barren land in which
No man ever meets another.
In that tomb your bride discover!”



«Ветер, ветер! Ты могуч,
Ты гоняешь стаи туч,
Ты волнуешь сине море,
Всюду веешь на просторе,
Не боишься никого,
Кроме бога одного.
Аль откажешь мне в ответе?
Не видал ли где на свете
Ты царевны молодой?
Я жених ее». — «Постой, —
Отвечает ветер буйный, —
Там за речкой тихоструйной
Есть высокая гора,
В ней глубокая нора;
В той норе, во тьме печальной,
Гроб качается хрустальный
На цепях между столбов.
Не видать ничьих следов
Вкруг того пустого места;
В том гробу твоя невеста».



Mam
Do you know
where the
Princess is?

Lady
Local

Sorry, I don't
know

If local Lady doesn't know:

Hey guys, help
Princess

Arrange
immediately

Guys

Please search
Princess

You can ask
the Moon

Sun

4

Please check
the PRINCESS
for me.

The Wind,
you can ask
him

Moon

5

Please check
the Princess
for me.

Its IP address is
coffin.cavern
.mountain

Wind

6

Prince Yelisei was looking for his Princess bride, asking about her location: peoples, Sun, Moon Wind. The wind helped Elisha by showing him the way

Search

google.com



You type "example.com" in
to a web browser

1

Do you know
"google.com"?

Sorry, I don't
know



Local DNS Cache

2

If local DNS doesn't know:

Hey guys, help
me search
"google.com"

Arrange
immediately

Recursive DNS server

3



"google.com"'s IP address
is "142.251.46.238"
I will remember it for future
use

7

Please search
"google.com"

All the domains
under ".com"

are stored in the
TLD name server
You can ask him

Root Server

4

Please check
"google.com"
for me.

"google.com"
is stored

in the
Authoritative DNS
server, you can ask
him

TLD DNS Server

5

Please check
"google.com"
for me.

Its IP address
is
"142.251.46.238"

Authoritative
DNS Server

6



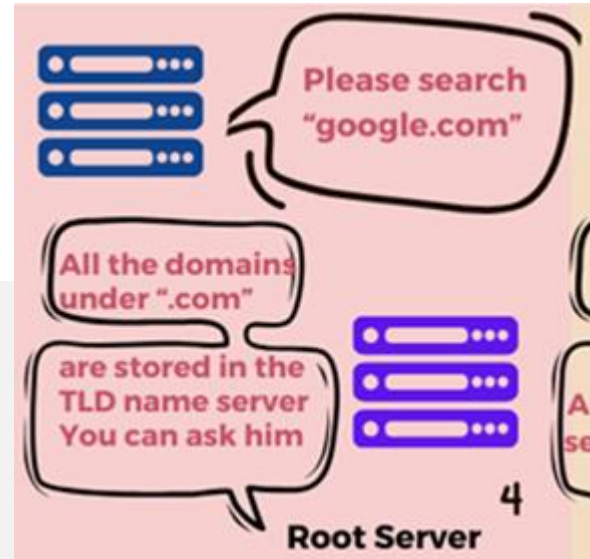
Its IP address
is
"142.251.46.238"

So smart!
Thank you!

Search

google.com

8

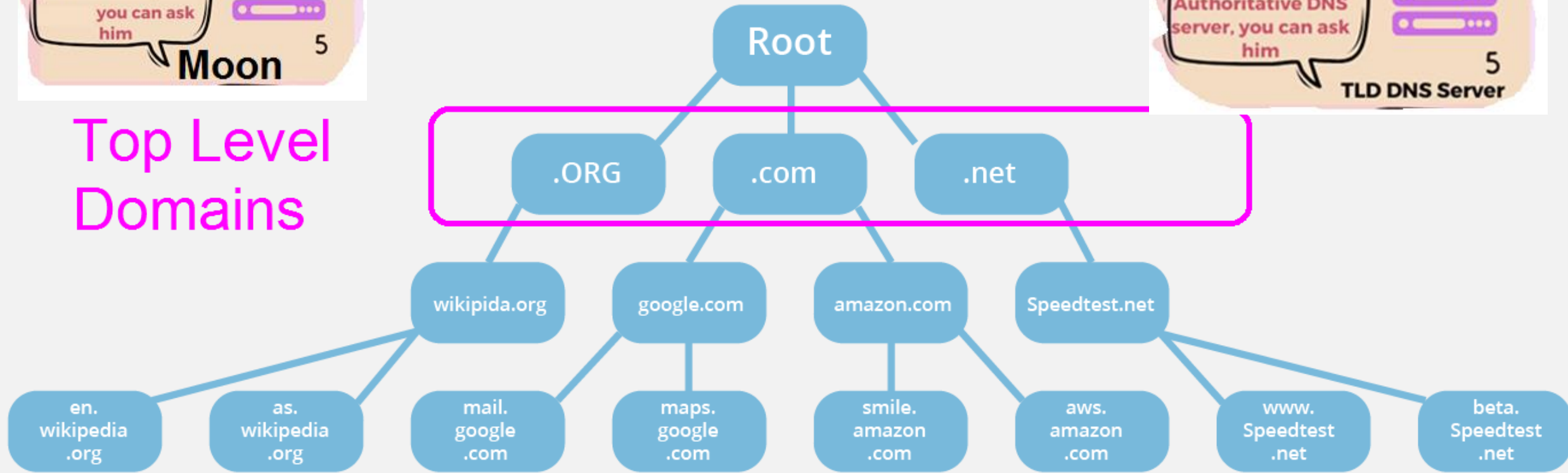




TLD DNS servers



Top Level Domains



Authoritative DNS servers

