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Identifying servers & site registration information— Diego RIVERO

Contract number 2017 96 05 – New Food Investigation Techniques –
Phase II - *Course 2a: E-Commerce of food standard*

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BTSF Identifying servers & operators

- What are servers?
- Registration of Internet domains
- WHOIS searches



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More on servers: A virtual landlord

- Servers are just large computers
- Always on, always accessible and anywhere in the World
- Website owners rent virtual space to store their data
- The server that stores the website is called the host/web server
- The host will have an IP address

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More on servers: A virtual landlord

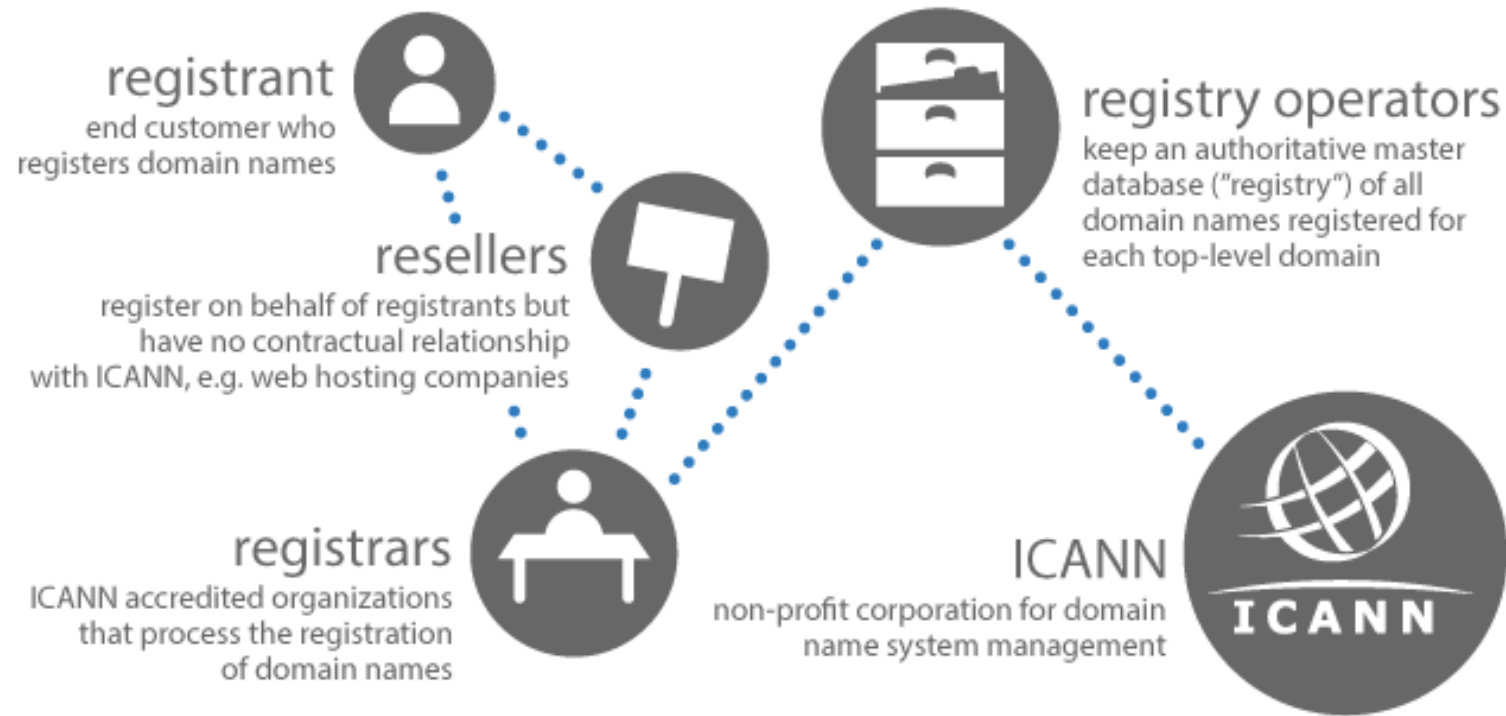
- Virtual servers – one physical machine tens of logical servers
- Sharing resources we can get access to high computational machines at reasonable cost
- Hosting is very cheap (more since Cloud is here)
- The Cloud – a new era in servers configuration, access and maintenance

BTSF Registration information (domains)

- [ICANN](https://www.icann.org/) (<https://www.icann.org/>) coordinates the assignment of unique identifiers for use on the Internet ([domain names](#), Internet Protocol (IP) addresses, application port numbers in the transport protocols, and many other parameters).
- This role distinguishes it as perhaps the only central coordinating body for the global Internet.
- **ICANN resources** (<https://www.icann.org/resources>) such as:
 - [Registry operators information](#)
 - [Information to Domain Name registrants](#)
 - Rights and responsibilities
 - Whois
 - [Complaints office](#)
 - [Glossary](#)

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BTSF Registration information (domains)

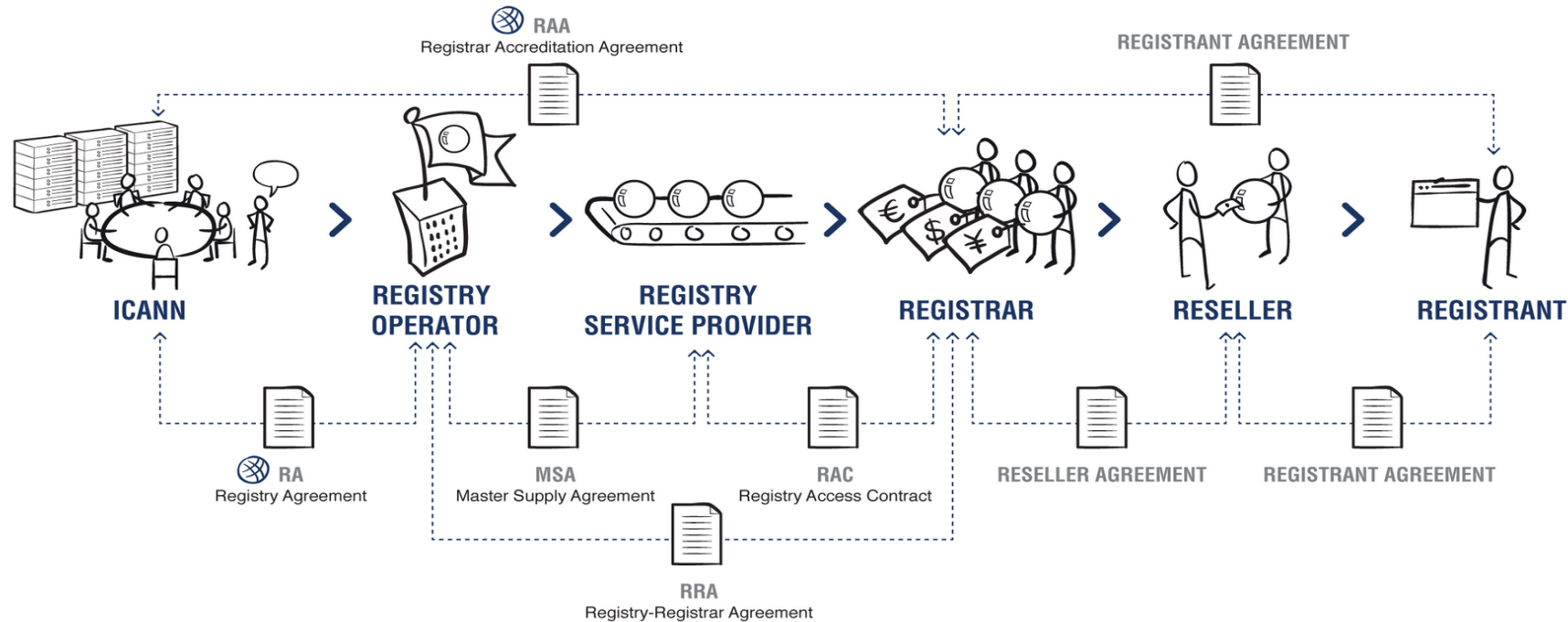


domain registry process

SF

BTSF Registration of Internet domains

THE DOMAIN NAME INDUSTRY RESPONSIBILITIES



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Registering Internet domains

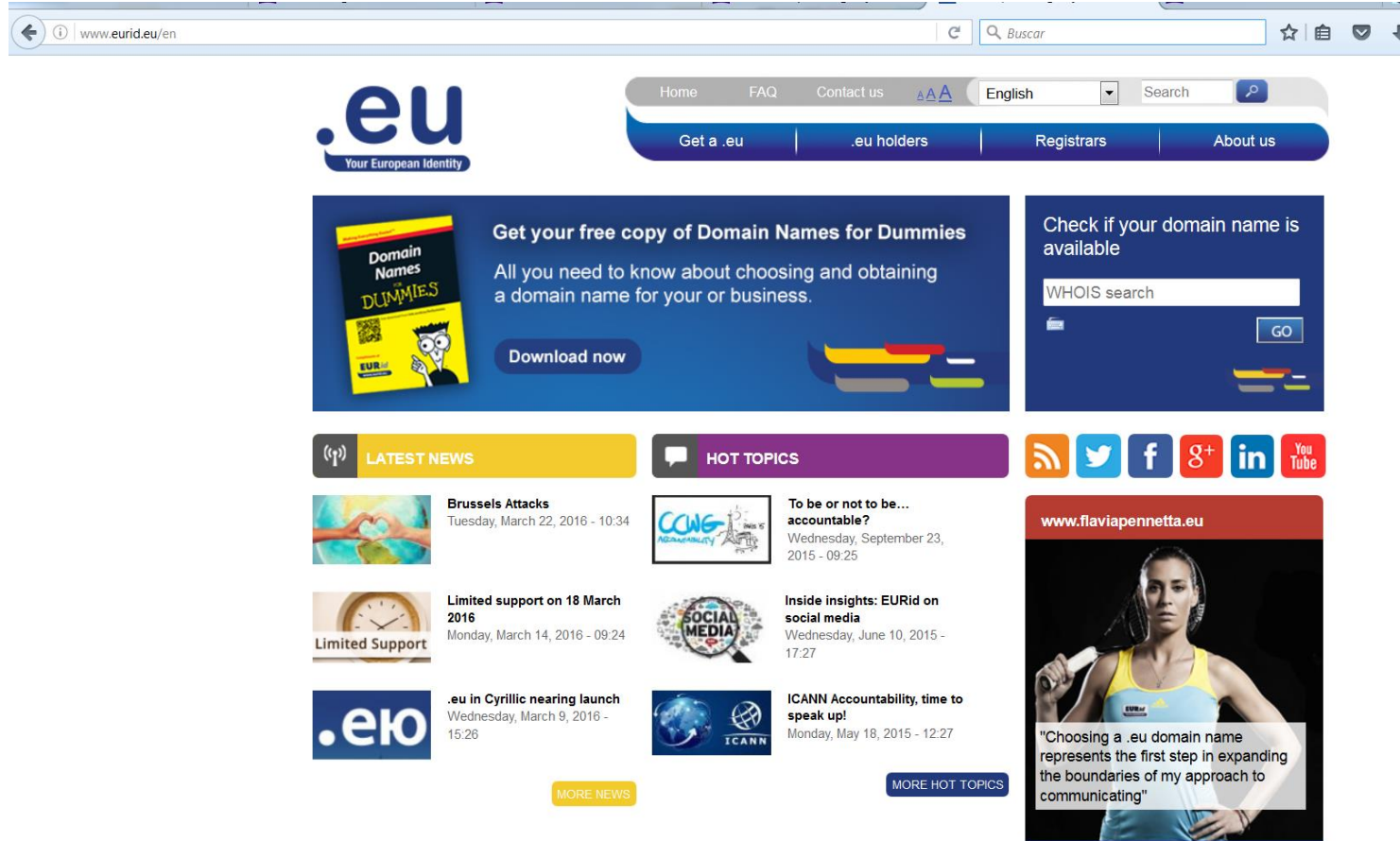
- IANA: affiliate of ICANN responsible of allocation of globally unique names and numbers that are used in Internet protocols.
- Regional/national bodies administers domain names, normally supported by agents (private companies that offer the domain registry service)

<https://www.iana.org/>

(let's go there)

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Exercise: how to register an Internet domain



The screenshot shows the homepage of the eurid.eu website. The browser address bar displays "www.eurid.eu/en". The website features a blue header with the ".eu" logo and the tagline "Your European Identity". Navigation links include "Home", "FAQ", "Contact us", "English", "Search", "Get a .eu", ".eu holders", "Registrars", and "About us".

Below the header, there are two main promotional banners:

- Get your free copy of Domain Names for Dummies**: A banner featuring the book cover and the text "All you need to know about choosing and obtaining a domain name for your or business." with a "Download now" button.
- Check if your domain name is available**: A banner with a "WHOIS search" input field and a "GO" button.

The main content area is divided into two columns:

- LATEST NEWS**: A yellow header with a list of news items:
 - Brussels Attacks**: Tuesday, March 22, 2016 - 10:34
 - Limited support on 18 March 2016**: Monday, March 14, 2016 - 09:24
 - .eu in Cyrillic nearing launch**: Wednesday, March 9, 2016 - 15:26
- HOT TOPICS**: A purple header with a list of topics:
 - To be or not to be... accountable?**: Wednesday, September 23, 2015 - 09:25
 - Inside insights: EURid on social media**: Wednesday, June 10, 2015 - 17:27
 - ICANN Accountability, time to speak up!**: Monday, May 18, 2015 - 12:27

At the bottom of the news sections are buttons for "MORE NEWS" and "MORE HOT TOPICS". To the right of the news sections is a sidebar with social media icons (RSS, Twitter, Facebook, Google+, LinkedIn, YouTube) and a featured article from "www.flaviapennetta.eu" with a photo of a woman and the text: "Choosing a .eu domain name represents the first step in expanding the boundaries of my approach to communicating".

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WHOIS Searches

- WHOIS is a query and response [protocol](#) widely used for querying [databases](#) that store the registered users or assignees of an Internet resource, such as a [domain name](#), an [IP address](#) block, or an [autonomous system](#)
- The protocol stores and delivers database content in a human-readable format.

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WHOIS Searches – Live practice

There are many websites that offer the WHOIS service.

Web browsers have also add-ons, plug-ins or extensions that provide whois searches.

Let's take a look at <http://whois.domaintools.com>

** Domaintools and other whois services have limits on the number of queries from the same IP*

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WHOIS Searches – Live practice

There are different online whois services:

- <https://www.whois.net/>
- <https://www.whois.com/>
- <https://who.is/>

And more complete services which also provide whois information:

- <https://centralops.net/co/>
- <https://mxtoolbox.com/Whois.aspx>

WHOIS Searches – Note - GDPR

A key piece of information on the WHOIS platform is the [REGISTRANT](#) - the person or organisation that owns a domain. However, since the introduction of the EU [General Data Protection Regulation](#) in May 2018, details of the REGISTRANT on WHOIS services are now in most cases **NOT** available. These details are deemed to be private data under GDPR.

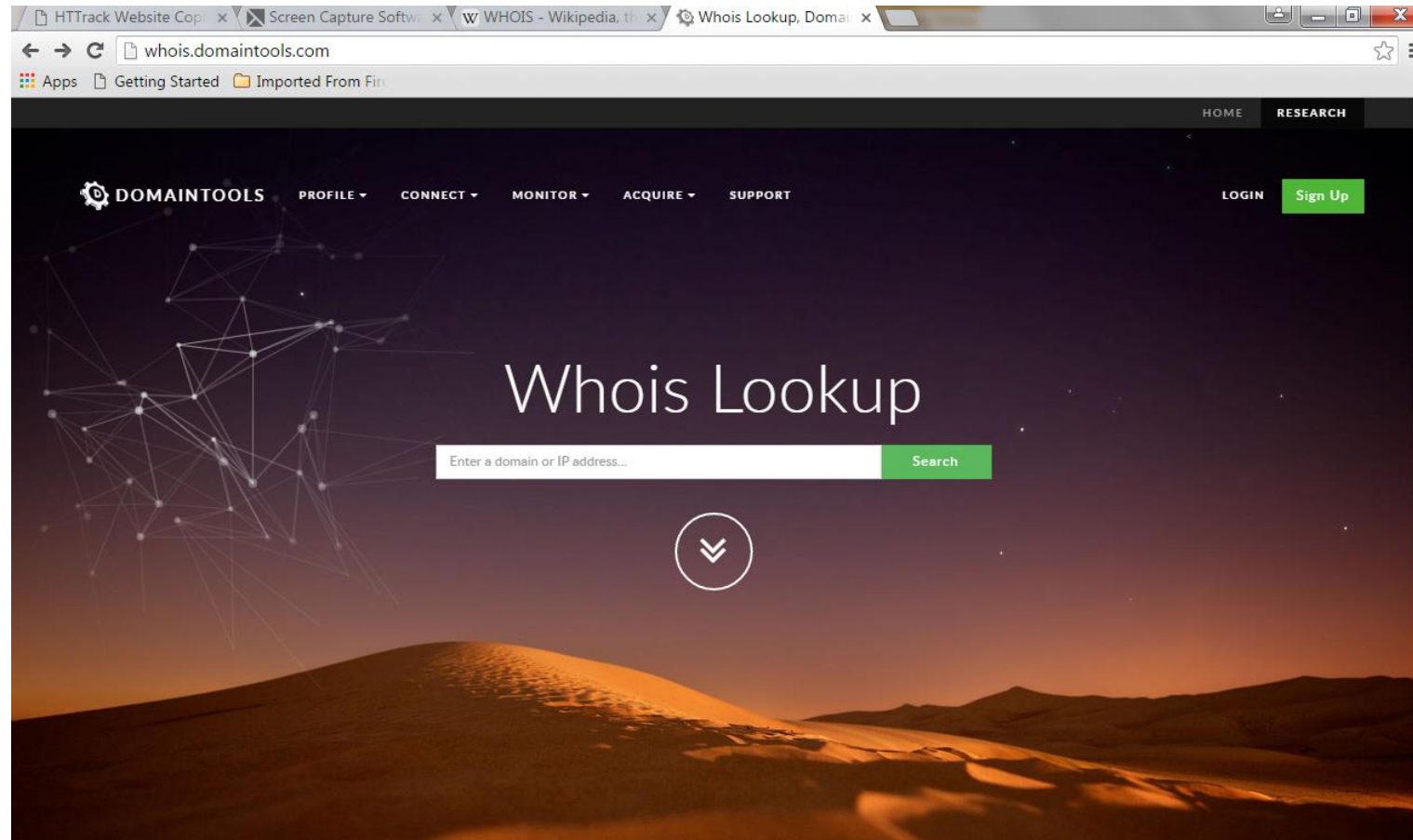
ICANN and the EU remain in [discussions](#) over the impact of the new rules.

It is likely to take some time to develop protocols that will allow Registrant information to be disclosed (for legitimate reasons) to consumer protection authorities.

EU consumer protection authorities may have to contact registrars for that information in the meantime and the outcome of such a request will depend on the particular registrar's policies. Some member state REGISTRIES have already made provision for law enforcers to accessing ccTLD registration details.

See more at [ICANN: Whois compliance with GDPR](#)

BTSF WHOIS Searches



BTSF WHOIS Searches

HTTrack Website Cop... x Screen Capture Softw... x WHOIS - Wikipedia, th... x Isaca.org WHOIS, DNE... x

whois.domaintools.com/isaca.org

Apps Getting Started Imported From Fir...

DOMAINTOOLS PROFILE CONNECT MONITOR ACQUIRE SUPPORT Whois Lookup LOGIN 1 Sign Up

+ Whois & Quick Stats

+ Website

Whois Record (last updated on 2016-04-14)

```
Domain Name: ISACA.ORG
Domain ID: D327778-LROR
WHOIS Server:
Referral URL: http://www.networksolutions.com
Updated Date: 2014-05-02T20:29:12Z
Creation Date: 1995-05-08T04:00:00Z
Registry Expiry Date: 2018-05-09T04:00:00Z
Sponsoring Registrar: Network Solutions, LLC
Sponsoring Registrar IANA ID: 2
Domain Status: clientTransferProhibited https://www.icann.org/epp#clientTransferProhibited
Registrant ID: 6073105-NSI
Registrant Name: Inf.Sys.Audit and Control Association
Registrant Organization: Inf.Sys.Audit and Control Association
Registrant Street: 3701 Algonquin Rd, Suite 1010
Registrant Street: **
Registrant City: Rolling Meadows
Registrant State/Province: IL
Registrant Postal Code: 60008
Registrant Country: US
Registrant Phone: +1.8475907461
Registrant Phone Ext:
Registrant Fax: +1.8472531443
Registrant Fax Ext:
Registrant Email: mba@isaca.org
Admin ID: 6073105-NSI
Admin Name: Inf.Sys.Audit and Control Association
Admin Organization: Inf.Sys.Audit and Control Association
Admin Street: 3701 Algonquin Rd, Suite 1010
```

Buy This Domain Visit Website

ISACA

"I'M RECOGNIZED FOR MY CERTIFICATION. I'M VALUED FOR WHAT I DO WITH IT."

SAVE US \$75

ISACA Training Week

View Screenshot History

Available TLDs

General TLDs Country TLDs

The following domains are available through our preferred partners. Select domains below for more information. (3rd party site)

■ Taken domain.
■ Available domain.
■ Deleted previously owned domain.

Isaca.com View Whois

BTSF WHOIS Searches

HTTrack Website Cop x Screen Capture Softw x WHOIS - Wikipedia, ti x Isaca.org WHOIS, DN x Isaca.org WHOIS, DN x

research.domaintools.com/research/screenshot-history/isaca.org/

Apps Getting Started Imported From Fir

HOME RESEARCH

DOMAINTOOLS PROFILE CONNECT MONITOR ACQUIRE SUPPORT Whois Lookup LOGIN 1 Sign Up

Isaca.org Screenshot History

isaca.org LOOKUP

Example: amazon.com, spacex.com, facebook.com

Whois Lookup
Whois History

isaca.org 2015-07-13

isaca.org 2013-12-29

isaca.org 2013-12-28

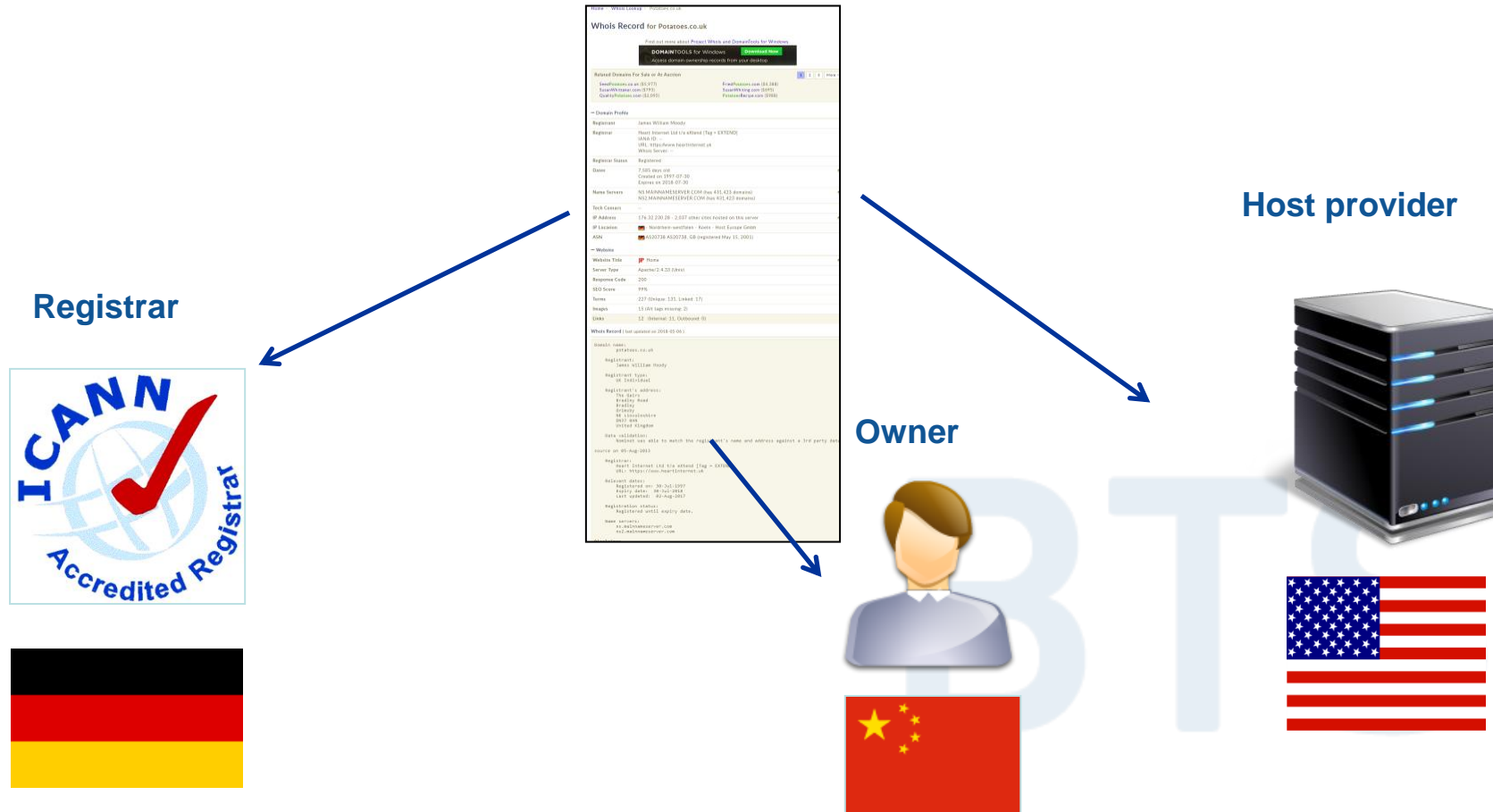
isaca.org 2013-12-28

isaca.org 2013-08-15

isaca.org 2012-08-27

isaca.org 2012-03-24

BTSF However... it is not always that easy



BTSF WHOIS extension program for Chrome

The screenshot shows a Chrome browser window with the eBay homepage. The address bar shows 'www.ebay.com'. The page features the eBay logo, a search bar, and a promotional banner for 'eBay Valet' with the text 'LEAVE THE SELLING TO EBAY VALET LET AN EXPERT SELL FOR YOU' and a 'Try eBay Valet now' button. A trumpet is also visible in the banner. The TCPIPUTILS.com extension is open, displaying IP information for 23.79.115.25. The extension has tabs for IPv4, IPv6, ISP, Domain, My IP, Premium, Options, and About. The IP information section shows the IP address, location (Amsterdam, North Holland, Netherlands (NL)), and registry (arin). The network information section shows the IP address, reverse DNS (PTR record), and DNS server (NS record).

TCPIPUTILS.com

IPv4 IPv6 ISP Domain My IP Premium Options About

IPv4 root -> 23/8 -> 23.79.112.0/20 -> 23.79.115.25

type domain, IPv4/IPv6 or provider Search

IP information 23.79.115.25

IP address	23.79.115.25
Location	Amsterdam, North Holland, Netherlands (NL)
Registry	arin

Network information

IP address	23.79.115.25
Reverse DNS (PTR record)	a23-79-115-25.deploy.static.akamaitechnologies.com
DNS server (NS record)	ns7.reverse.deploy.akamaitechnologies.com (184.26.161.32) ns1.reverse.deploy.akamaitechnologies.com (96.7.50.32) ns4.reverse.deploy.akamaitechnologies.com (95.100.168.32)

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Whois additional features

- Whois History
 - Historical data (especially relevant after GDPR)
- Reverse whois
 - Find other domains registered by the same person/organisation
 - Workaround (sometimes work): Use advanced search in search engine:
 - “*PHONE_NUMBER*” site:whois.domaintools.com
 - “*STREET_ADDRESS*” site:whois.domaintools.com

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Practice Case

- Collect as much information as you can from websites registration: bio4you.eu / mynutrition.com.mt
 - Date site registered
 - Date site last updated
 - Date site MAY expire
 - Registrant name & contact details
 - Registrar and contact details
 - Top-level/Country domain registry for the TLD
 - URL for WHOIS of top-level/country domain registry
 - Abuse contact
- Indicate the tools used and collect some evidence

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Other sources of information

- Reverse lookup:
 - Domain name/IP server → other sites
 - Whois Database
 - Spyonweb
- Company registration (BRIS/VIES/national registries)
- Companies directories/databases
- Social media
- ...

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Things to remember



- 
- A large, 3D-rendered target with concentric red and white rings. A hand is visible, with a finger pointing at the center bullseye.
- 
- A small, blue, dome-shaped icon with a thin, curved line extending from its top.
- ✓ Servers are just large computers connected to the Internet which commonly provide a service to other connected devices (storage, web hosting, mail service, etc.)
 - ✓ Virtual servers – one physical machine tens of logical servers
 - ✓ Sharing resources we can get access to high computational machines at reasonable cost
 - ✓ The Cloud – a new era in servers configuration, access and maintenance

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Things to remember



- ✓ Before publishing a website with a domain on the Internet, it has to be officially registered.
- ✓ The registry information of the property of a web page or Internet domain, is collected in the WHOIS database.
- ✓ Whois information is good starting point but it can be out of date... moreover the GDPR have reduced the available data
- ✓ Use other tools that can give you other technical info of the server hosting the site.

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Thank you

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