

# BTSF

## Sharing files— 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 Sharing files

- Web hosting and FTP
  - FTP client
  - Other ways for hosting
- Safety protocols
- Website structure



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## Sharing files

- Users need to store data and share it.
- Store in hard drive or server. This last option requires communication through the network:
  - **File Transfer Protocol (FTP)**
    - Designed specifically to move files over IP networks
    - FTP extended but not commonly used by users
  - **Web-based (HTTP)**
    - Interface like a webpage, accessible like other webpages
  - **Client/app**
    - Piece of software which connects, accessible like other webpages through a web-browser

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## Local/external storage

- Ideally for digital evidence storage:
  - In a physical media format that cannot be changed
  - WORM (Write once read many) CDs/DVDs are useful for storage and sharing (read only, one use, easy to store and transport).
  - Stored in a “isolated” location only accesible by authorised people
  - Not network connected or high security to access
- However, nowadays the use of CDs/DVDs has declined and not likely that every organisation have isolated lab locations.

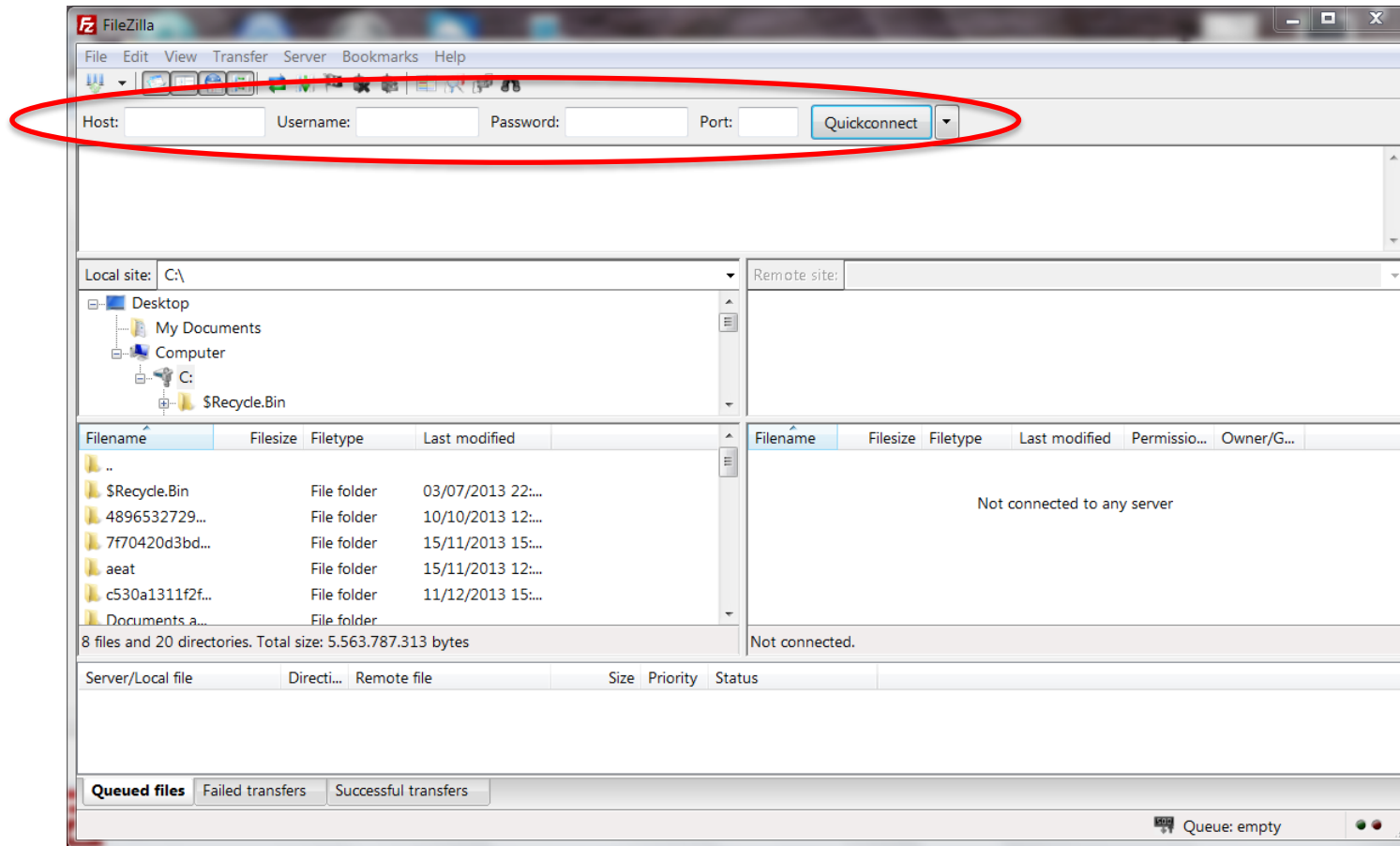
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## FTP

- It is possible to configure a PC connected to the network to be a FTP server (Windows Administrative tools)
- Most people use specific software FTP tools
- For example: Filezilla

Lets take a look...

# BTSF Exercise: Accessing a host via FTP



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## Cloud storage hosting & sharing

- Popularity of the Cloud: many vendors offer limited space in their servers for individual users or companies.
  - Cloud storage is a model of computer data storage in which the digital data is stored in “logical pools” (logical storage space commonly distributed in multiple servers (sometimes in multiple locations)).
  - The infrastructure is commonly owned and managed by a hosting company which provides access and is responsible of the security and availability of the data.

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## Cloud storage hosting & sharing

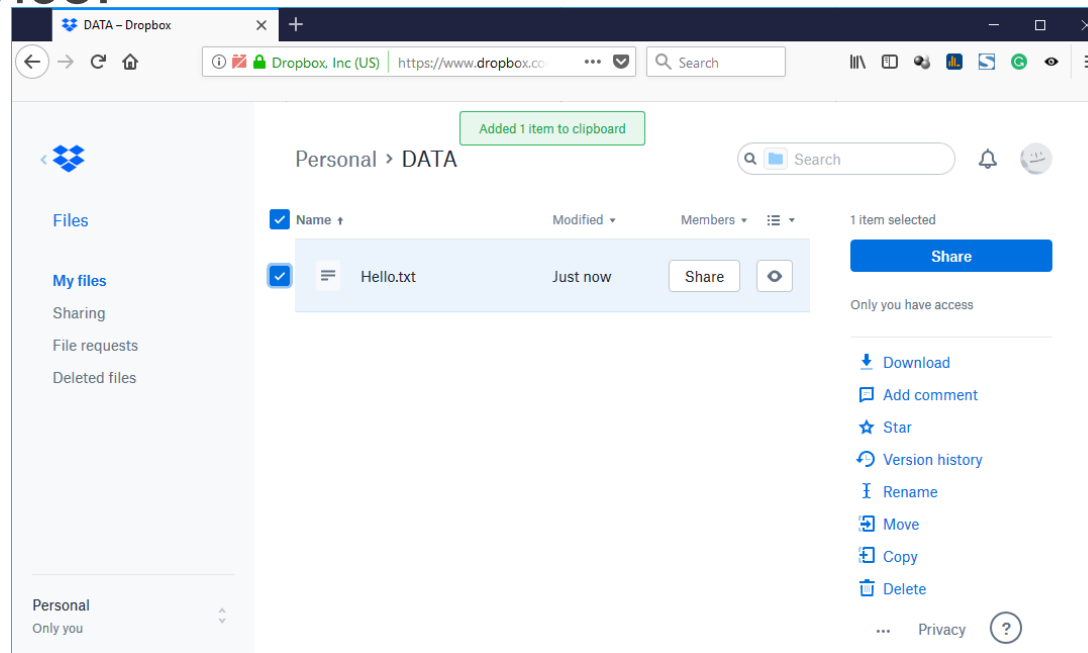
- “For free” cloud storage space?
  - Popular services: Dropbox, Box, Google Drive, Microsoft OneDrive or your local ISP provider's.
- Not for free services may provide additional options (check the Terms & Conditions)
  - Space or data availability
  - Features (data deletion or portability)
  - Privacy or data security



# BTSF Cloud storage hosting & sharing

Cloud storage services may be accessed through a cloud computing service:

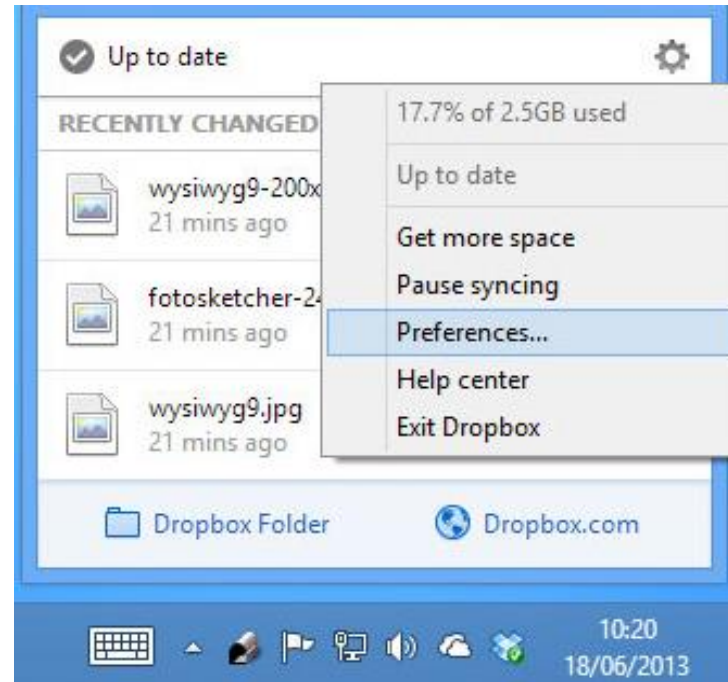
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- An application which use the web service application programming interface (API).



# BTSF Cloud storage hosting & sharing

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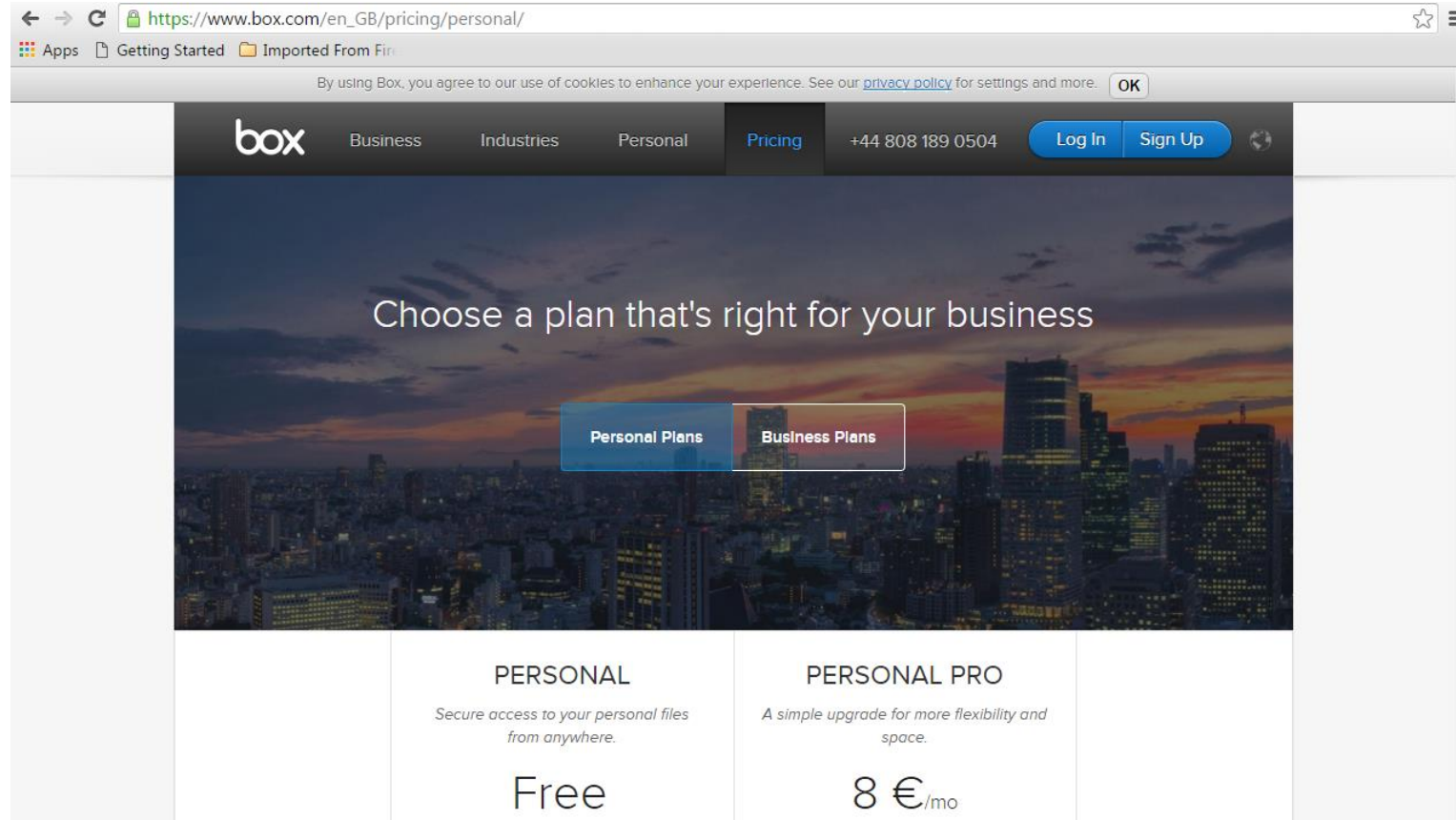
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## Cloud storage hosting & sharing

- Some things to take into account:
  - Privacy protection
  - Data security and integrity
  - Payment models
  - Back-up
  - Data deletion & portability
  - Data location
  - Cloud access

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# BTSF Examples: Cloud storage



The screenshot shows the Box.com website's pricing page for personal plans. The browser address bar displays [https://www.box.com/en\\_GB/pricing/personal/](https://www.box.com/en_GB/pricing/personal/). The navigation bar includes the Box logo, links for Business, Industries, Personal, and Pricing (which is highlighted), a phone number (+44 808 189 0504), and buttons for Log In and Sign Up. A cookie consent banner is visible at the top. The main content area features a cityscape background with the text "Choose a plan that's right for your business" and two tabs: "Personal Plans" (selected) and "Business Plans". Below the tabs, two plan options are presented:

PERSONAL	PERSONAL PRO
Secure access to your personal files from anywhere.	A simple upgrade for more flexibility and space.
Free	8 €/mo

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## Secure protocols

https, ftps

- They use encryption functionalities in an effort to provide more secure and trusted connections.
- Historically, HTTPS connections were primarily used for payment transactions on the www, e-mail and for sensitive transactions in corporate information systems.

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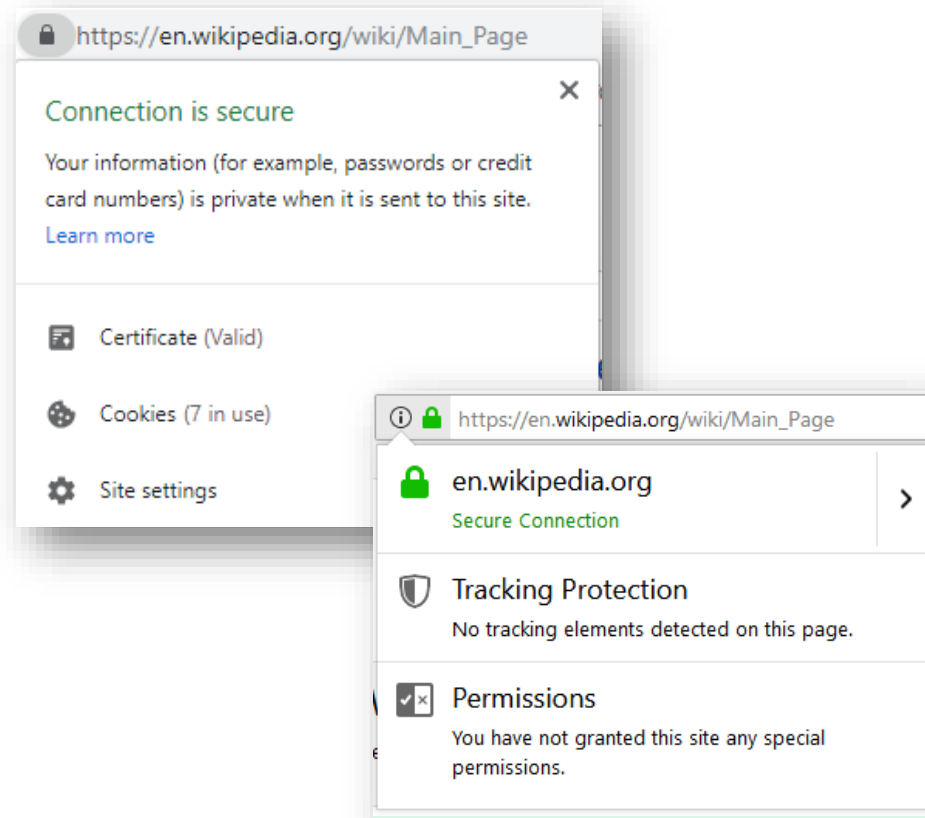
## Secure protocols

- Web browsers know how to trust HTTPS websites based on certificate authorities that come pre-installed in their software.
- Certificate authorities (such as Symantec, Comodo, GoDaddy and GlobalSign) are in this way being trusted by web browser creators to provide valid certificates.

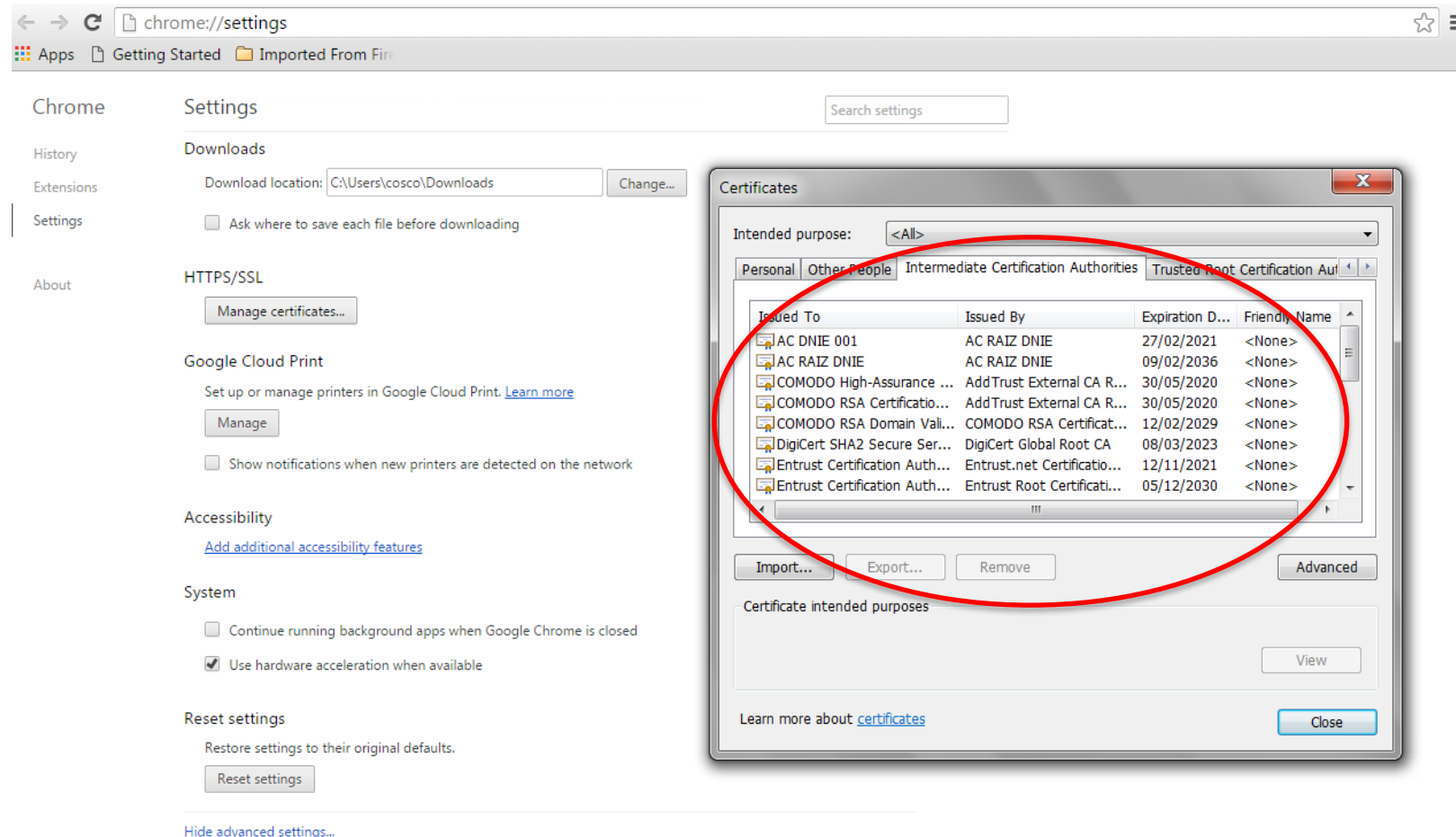
# BTSF Secure protocols

Things to take into account to trust the connection:

- The browser software correctly implements HTTPS with correctly pre-installed certificate authorities.
- The certificate authority vouch only for legitimate websites.
- The website provides a valid certificate, which means it was signed by a trusted authority.

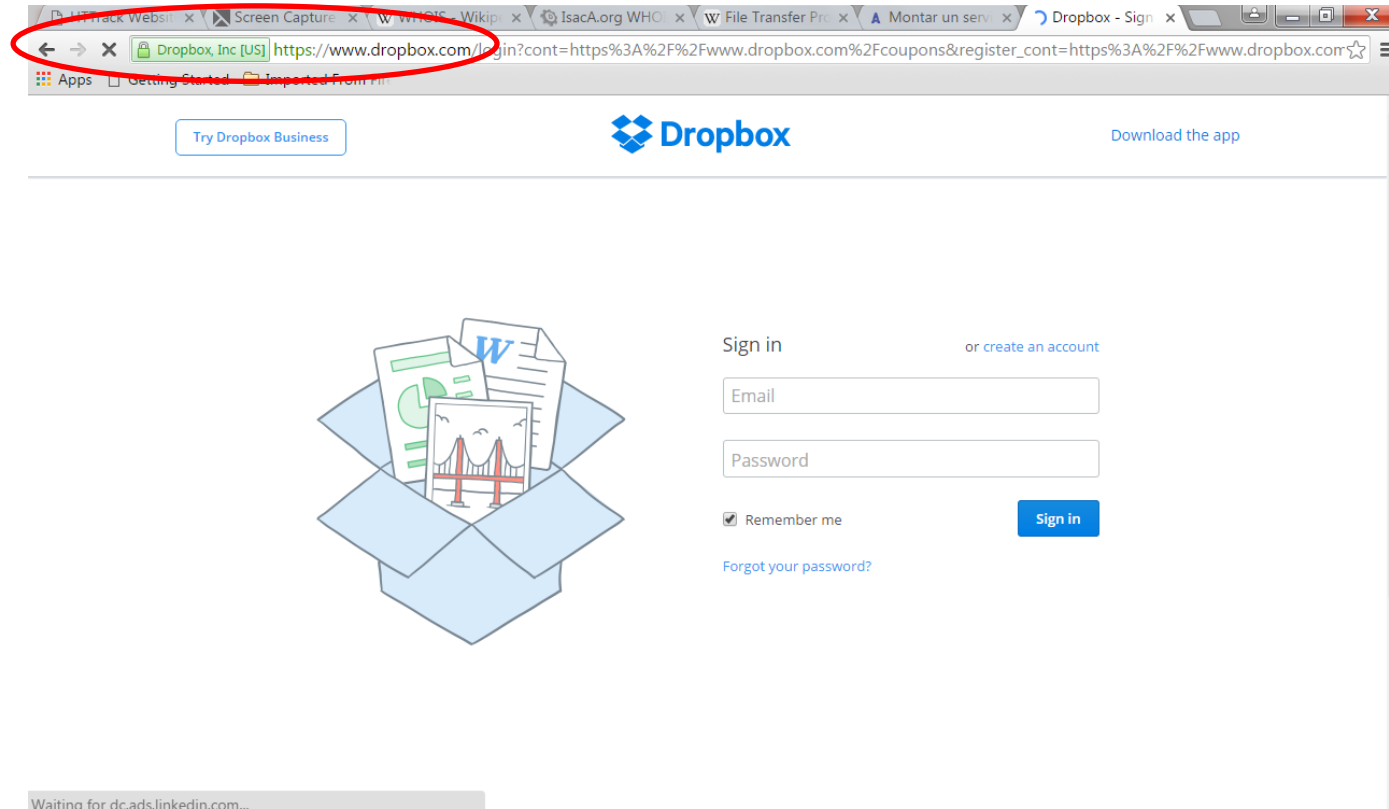


# BTSF Example: certificates in web browser





# BTSF Example: safety protocols in web browser



See some examples in <https://badssl.com>

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## Things to remember



### ✓ Ways of hosting data on servers:

- ✓ Using local FTP servers. Accessible using ftp protocol. Using for exchanging data.
- ✓ Using cloud/web hosting. Be careful when saving data on these kind of services because we loose the control.

### ✓ Use safety protocols (ftps, https) when moving data on the Internet. You don't know who is listening to...

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# Thank you

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