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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.

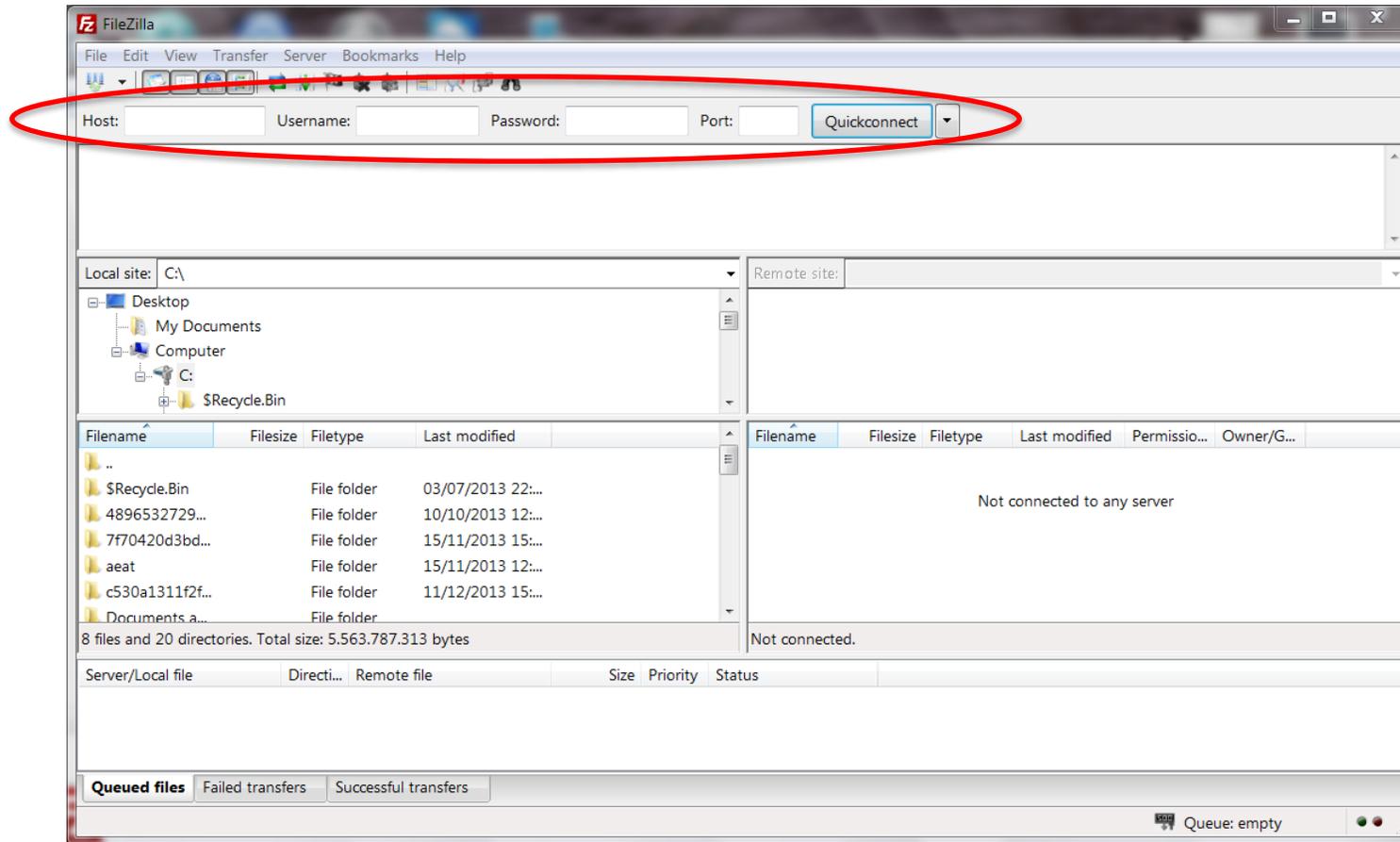
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FTP

- 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

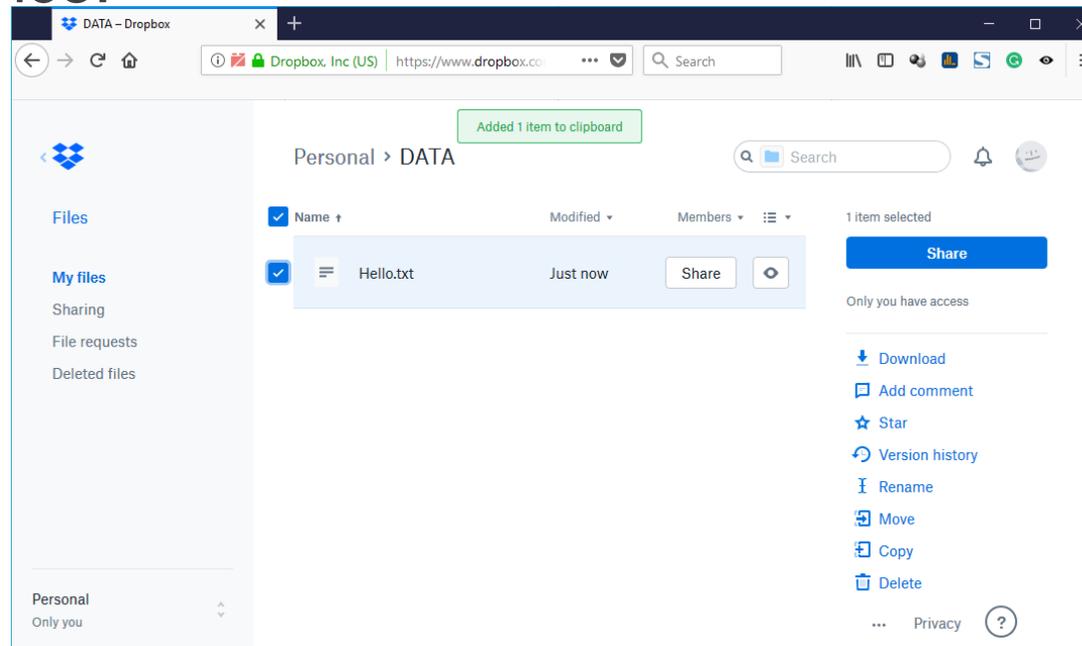
- “For free” cloud storage space?
 - Popular services: Dropbox, Box, Google Drive, Microsoft OneDrive or your local ISP provider’s.
- Not for free services may provide additional options (check the Terms & Conditions)
 - Space or data availability
 - Features (data deletion or portability)
 - Privacy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

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BTSF Cloud storage hosting & sharing

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

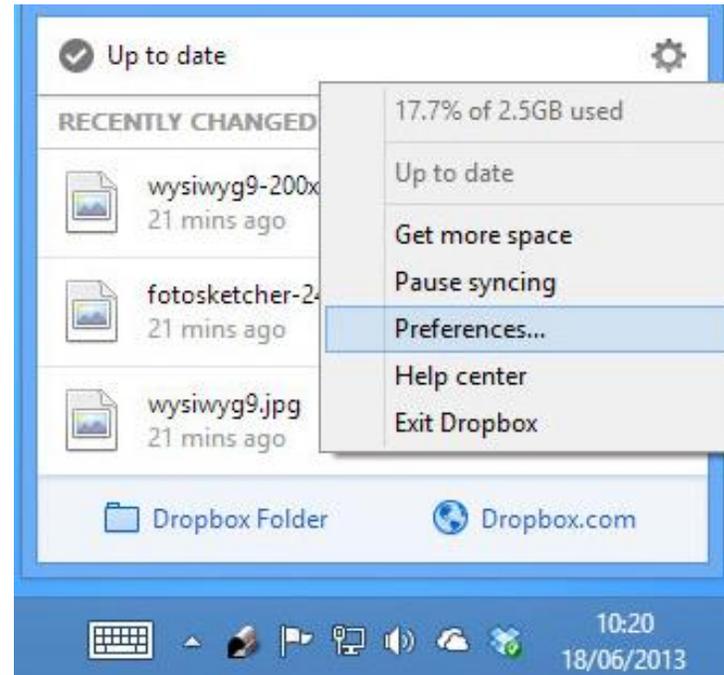
- Web-based interface accessible through a web-browser
- An application which use the web service application programming interface (API).



BTSF Cloud storage hosting & sharing

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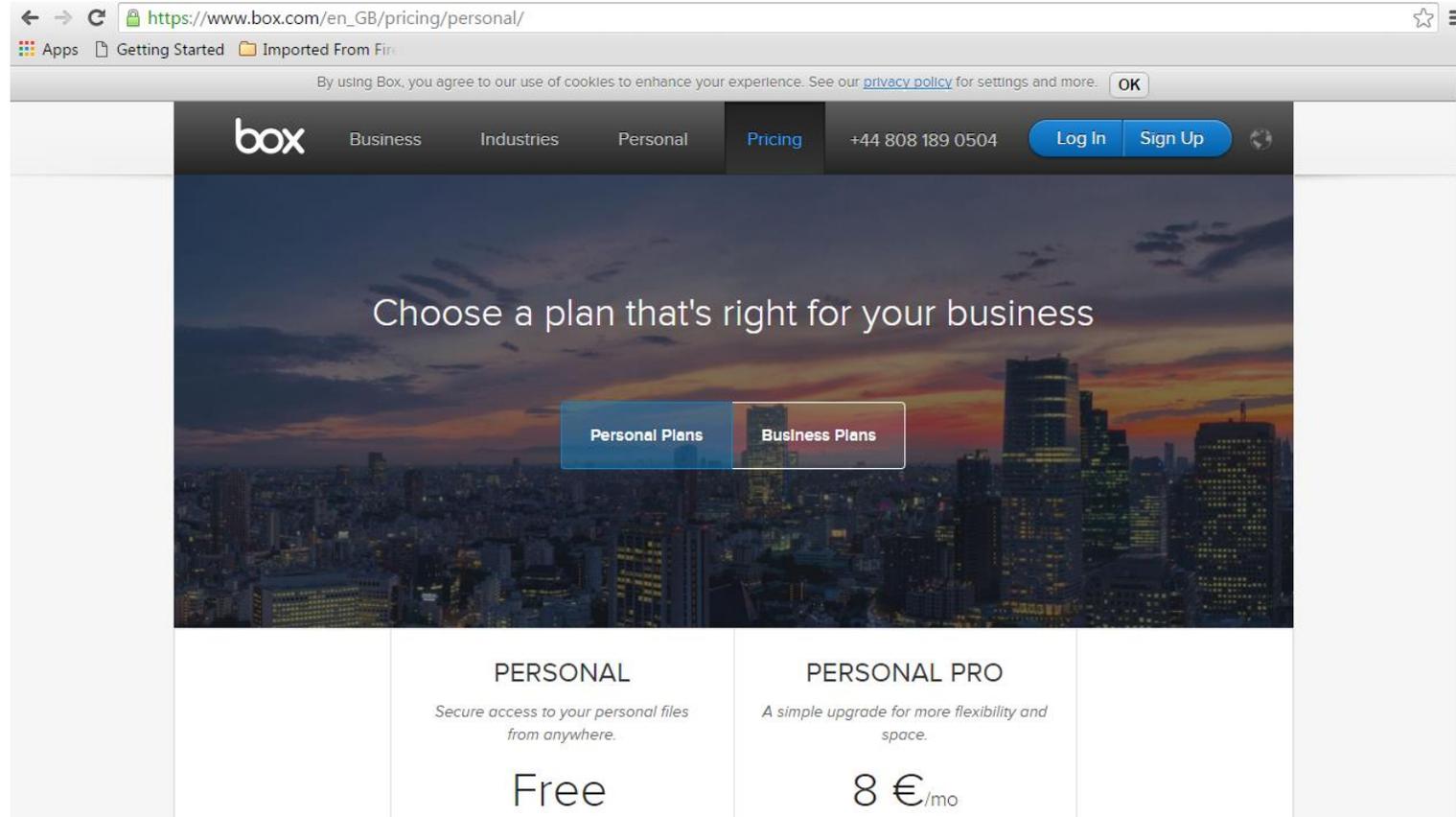
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Cloud storage hosting & sharing

- 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 users. The browser address bar displays https://www.box.com/en_GB/pricing/personal/. The navigation menu includes 'Business', 'Industries', 'Personal', and 'Pricing' (which is selected). There are also links for '+44 808 189 0504', 'Log In', and 'Sign Up'. A cookie consent banner is visible at the top. The main heading reads 'Choose a plan that's right for your business'. Below this, there are two tabs: 'Personal Plans' (selected) and 'Business Plans'. The 'Personal Plans' section features two options:

Plan Name	Description	Price
PERSONAL	Secure access to your personal files from anywhere.	Free
PERSONAL PRO	A simple upgrade for more flexibility and space.	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

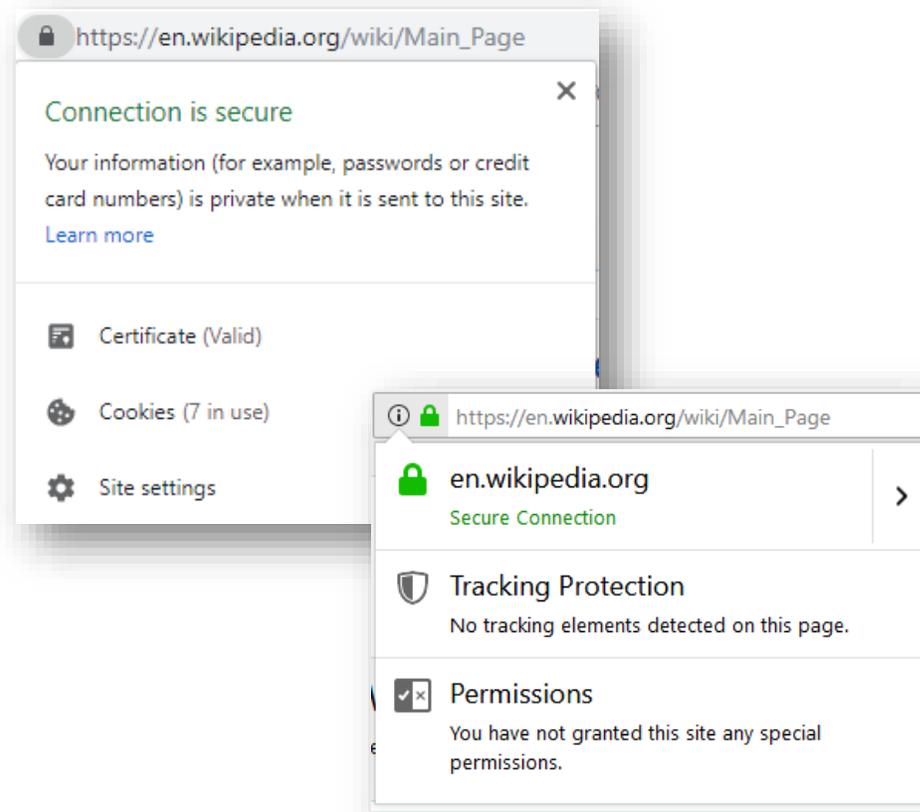
- Web browsers know how to trust HTTPS websites based on certificate authorities that come pre-installed in their software.
- Certificate authorities (such as Symantec, Comodo, GoDaddy and GlobalSign) are in this way being trusted by web browser creators to provide valid certificates.

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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.

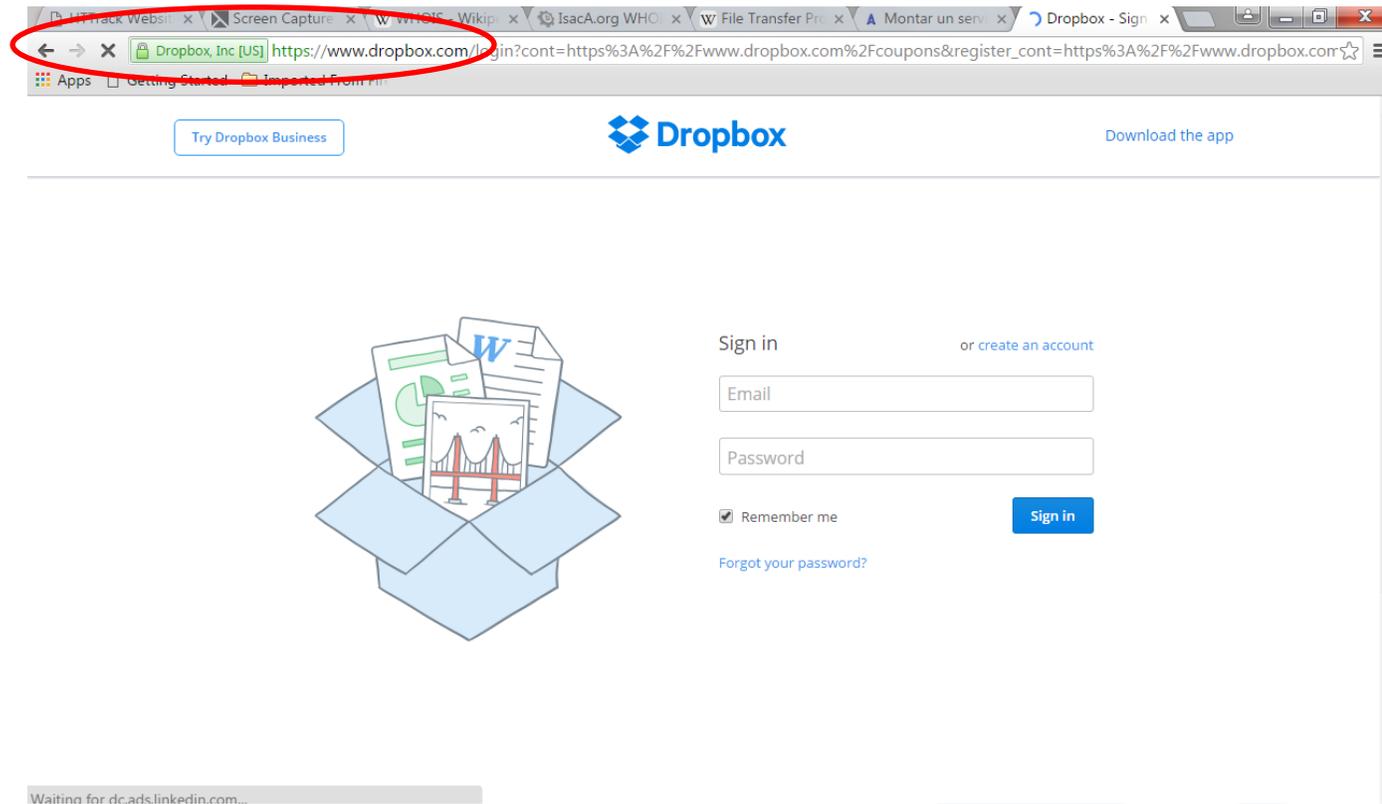


BTSF Example: certificates in web browser

The screenshot shows the Chrome settings page with the 'Certificates' dialog box open. The dialog box displays a list of certificates under the 'Personal' tab. A red circle highlights the list of certificates.

Issued To	Issued By	Expiration D...	Friendly Name
AC DNIE 001	AC RAIZ DNIE	27/02/2021	<None>
AC RAIZ DNIE	AC RAIZ DNIE	09/02/2036	<None>
COMODO High-Assurance ...	AddTrust External CA R...	30/05/2020	<None>
COMODO RSA Certificatio...	AddTrust External CA R...	30/05/2020	<None>
COMODO RSA Domain Vali...	COMODO RSA Certificat...	12/02/2029	<None>
DigiCert SHA2 Secure Ser...	DigiCert Global Root CA	08/03/2023	<None>
Entrust Certification Auth...	Entrust.net Certificatio...	12/11/2021	<None>
Entrust Certification Auth...	Entrust Root Certificati...	05/12/2030	<None>

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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