External documentation

• Apache HTTP Server Version 2.4 Documentation

Tip

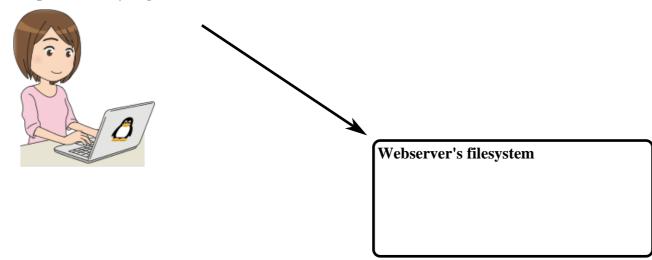
Whenever searching for Apache related documentation *always* include "2.4" in your query: Configuration file syntax changed considerably with respect to Apache version 2.2.



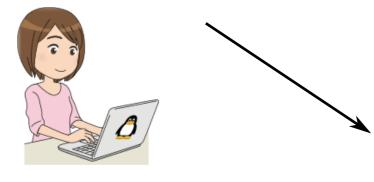
https://www.my.org/sub/foo.html



https://www.my.org/sub/foo.html



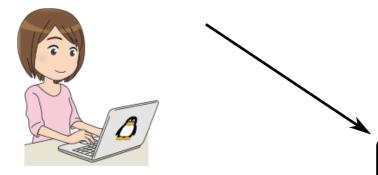
https://www.my.org/sub/foo.html



Webserver's filesystem

DocumentRoot /var/www/html

https://www.my.org/sub/foo.html



Webserver's filesystem

DocumentRoot /var/www/html

/var/www/html

/sub/foo.html

Virtual hosting

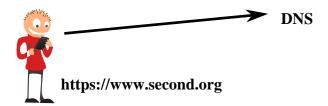
- One physical host system
- Serving multiple sites e.g.:
 - https://www.foo.org
 - \bullet https://www.second.org

Implementing virtual hosting

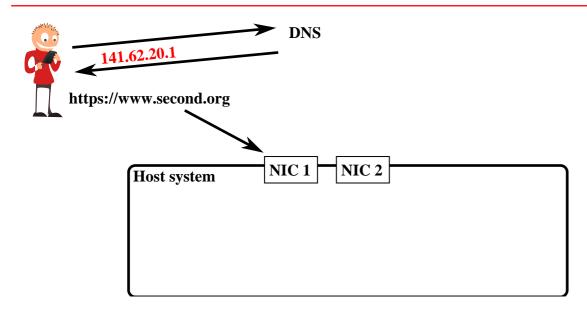
- 1. Port based virtual hosting
- 2. IP based virtual hosting
- 3. Name based virtual hosting

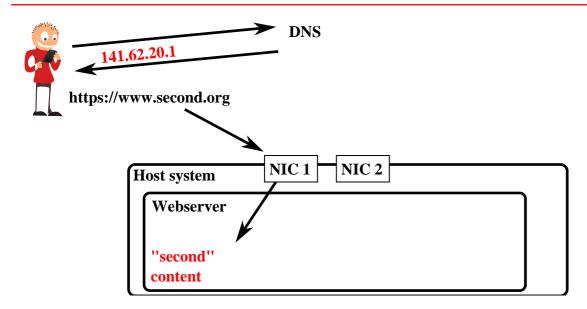
Typically using Server Name Indication (SNI)

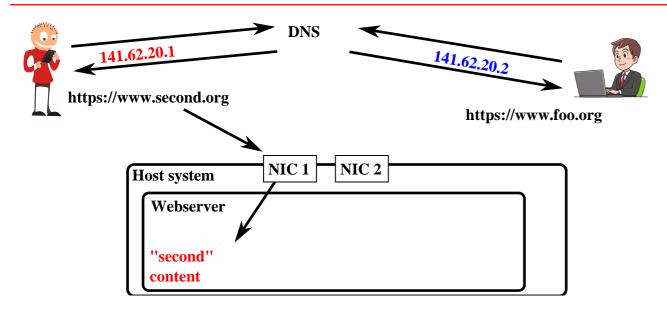


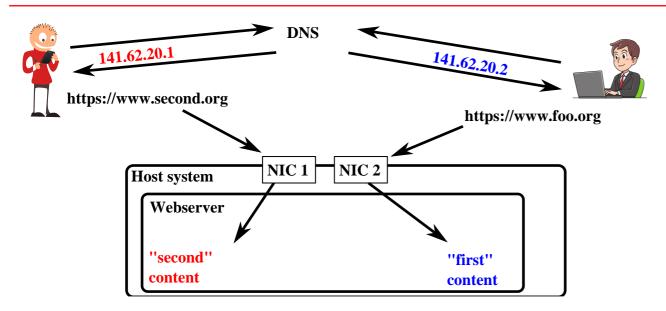


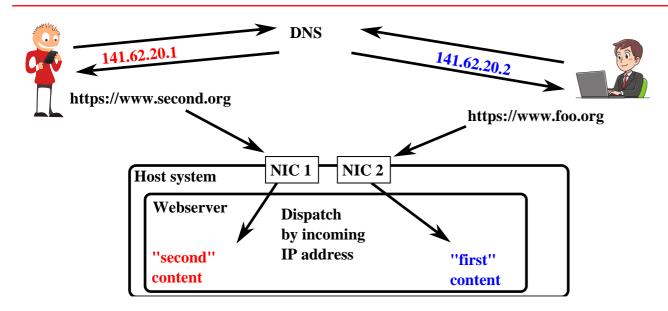












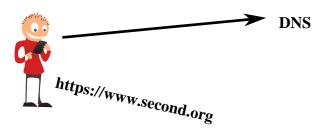
IP based, pros / cons

- Host system: One IP per site to serve
- Pro: TLS handshake without SNI.

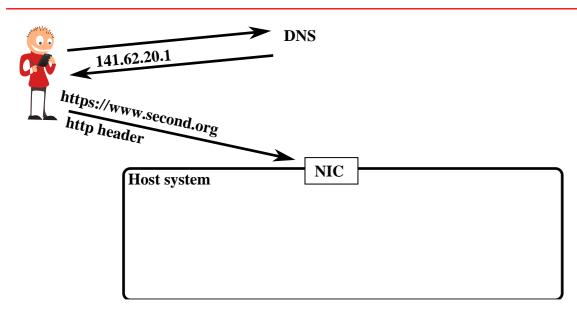
Supporting older clients.

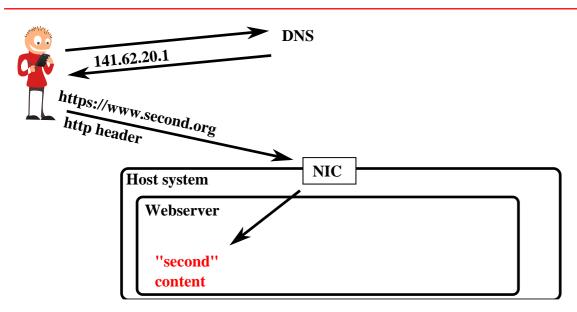
- Downside:
 - IP address waste
 - Host system NIC configuration required

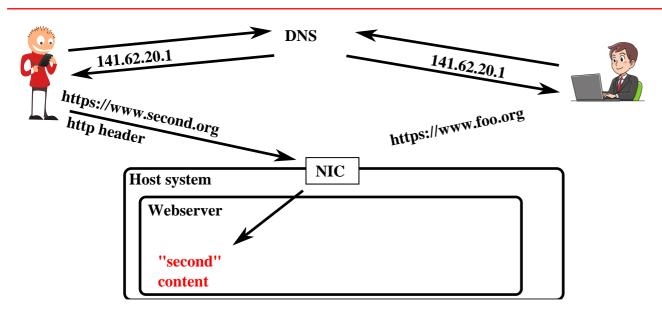


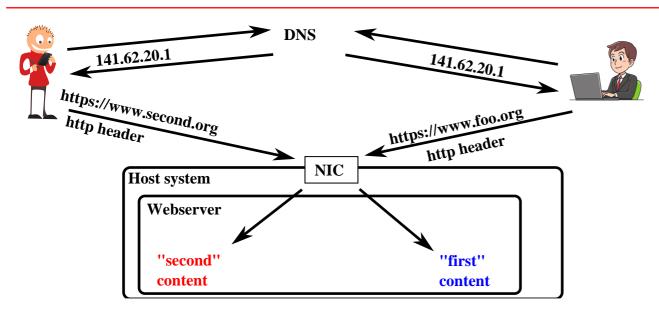


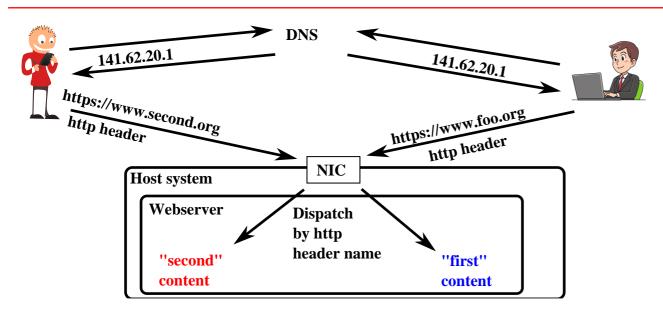












Name based, pros / cons

- Host system: Common IP address
- Pro
 - No IP address waste
 - No Host system NIC configuration required
- Cons: Excluding older non SNI supporting clients.

(Internet Explorer on Windows XP, Android below V. 2.3)

• SNI allows for eavesdropping requested site's name.

