

Out of character: Are the Chinese building a second Internet?

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What happened?



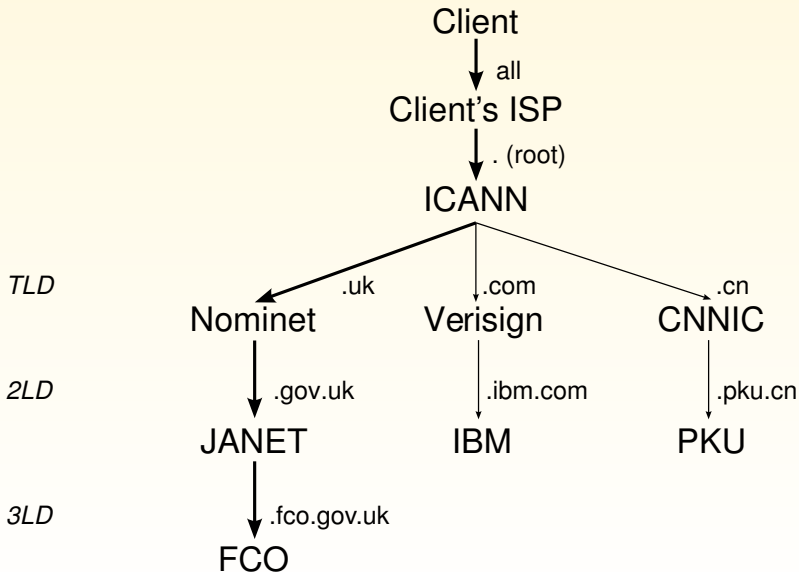
Domain names and the DNS

- Internet Protocol (IP) addresses
 - e.g. 131.111.8.46
- Domain names:
 - <http://www.cam.ac.uk/index.html> (web pages)
 - sjm217@cam.ac.uk (email)
- The *Domain Name System (DNS)* translates domain names to IP addresses
- Top level domains:
 - www.cam.ac.uk (Country code)
 - www.un.org (Generic)

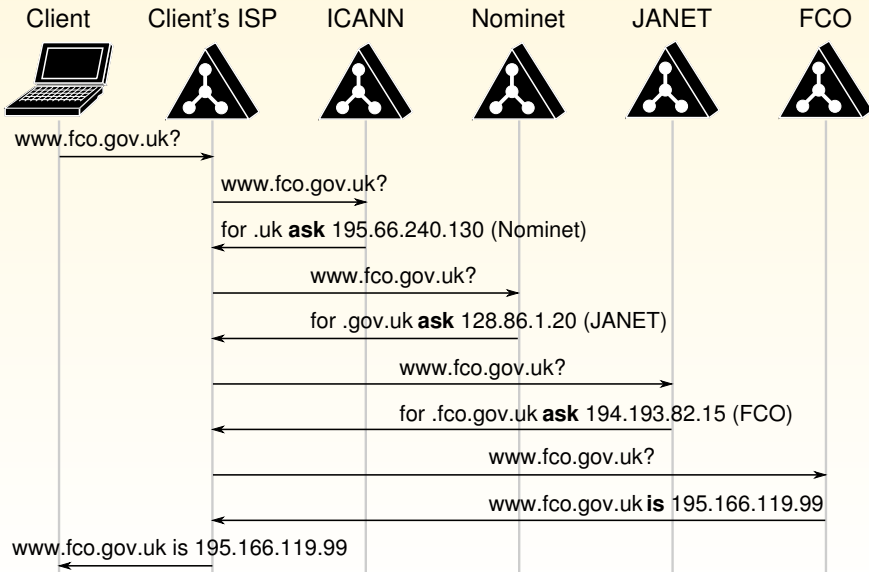
New top level domains

- Three new Chinese script TLDs
 - .中国 (China)
 - .公司 (Company)
 - .网络 (Network)
- Alternative DNS roots
 - Organisation specific e.g. *something.private.cam.ac.uk*
 - Global commercial e.g. .llc, .per, .job
 - Activism e.g. .love, .fur, .5wc

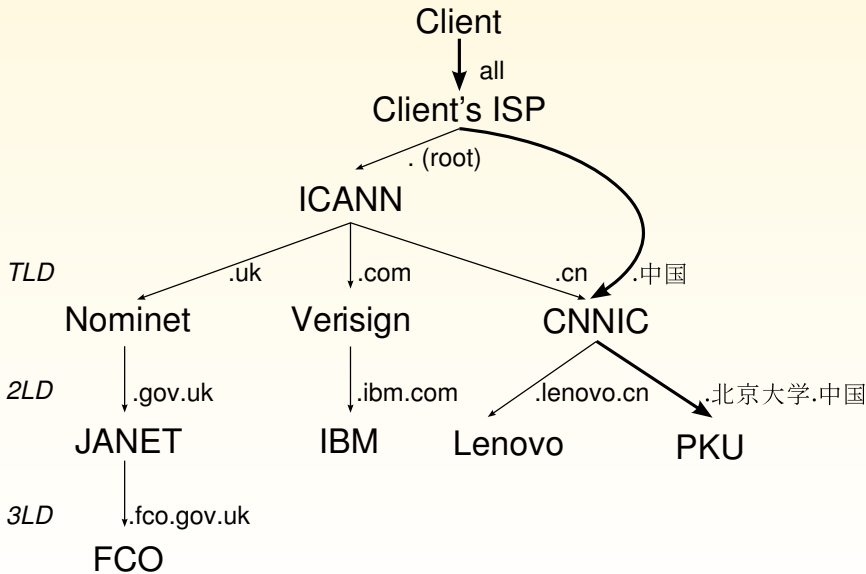
DNS Hierarchy (before)



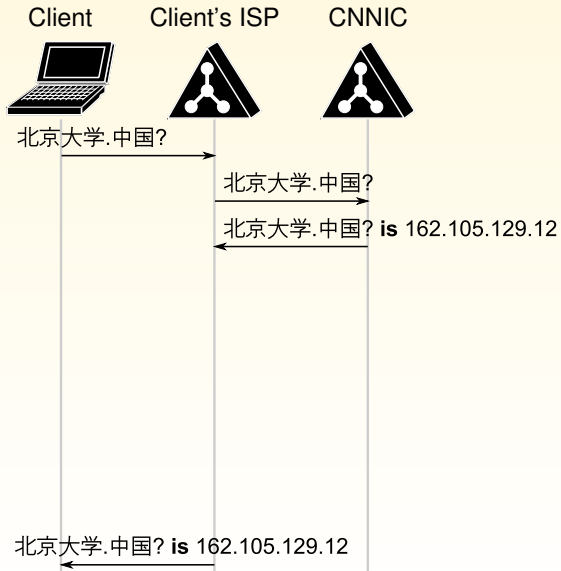
How DNS works



Modified hierarchy



How DNS now works in China



Keyword blocking in QQ Instant Messenger

新疆独立 (Independence of XinJiang)	freedom
宋祖英 (Song Zuying: Celebrity rumoured to be mistress of Jiang Zemin)	voa
法轮 (Falun)	falun
大中华论坛 (Great China Forum: Banned website)	UltraSurf
操你 (An expletive)	playboy

What next?

