Networks

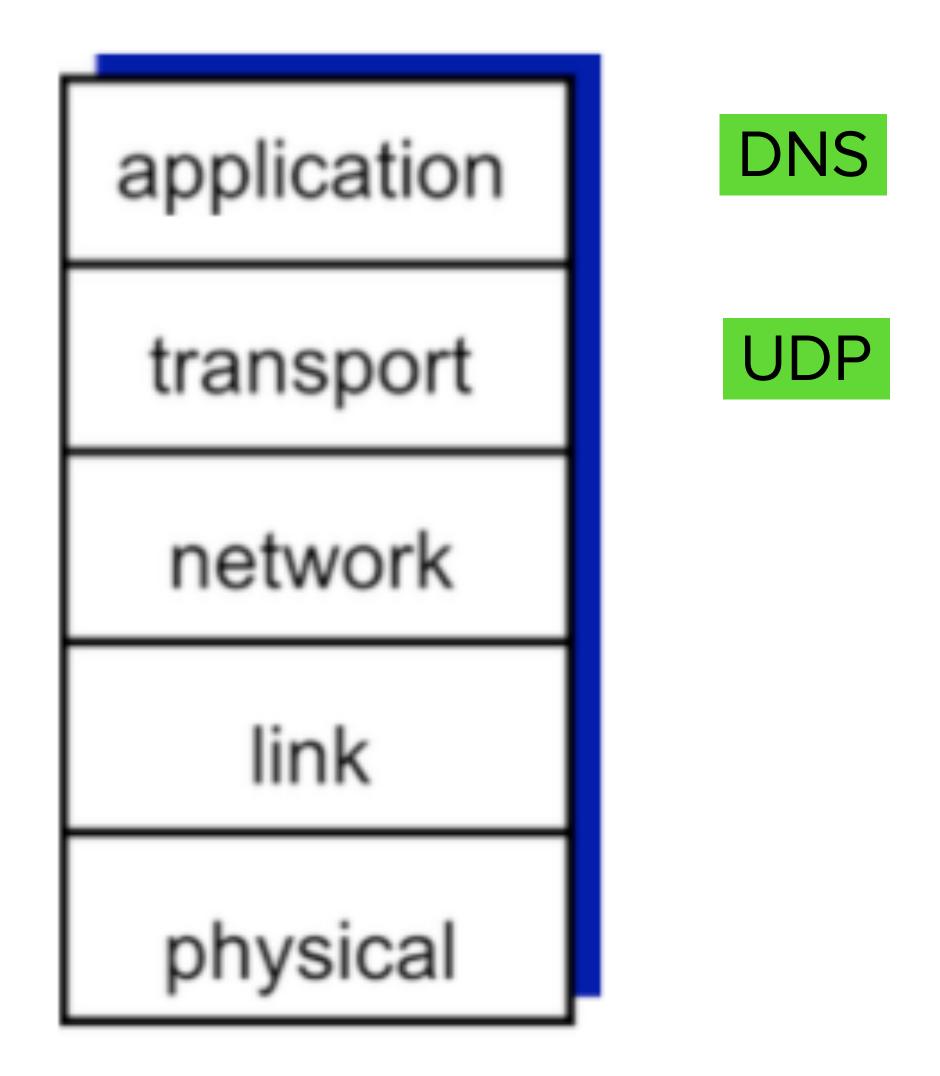
Lab4 - DNS protocol

Lab goal:

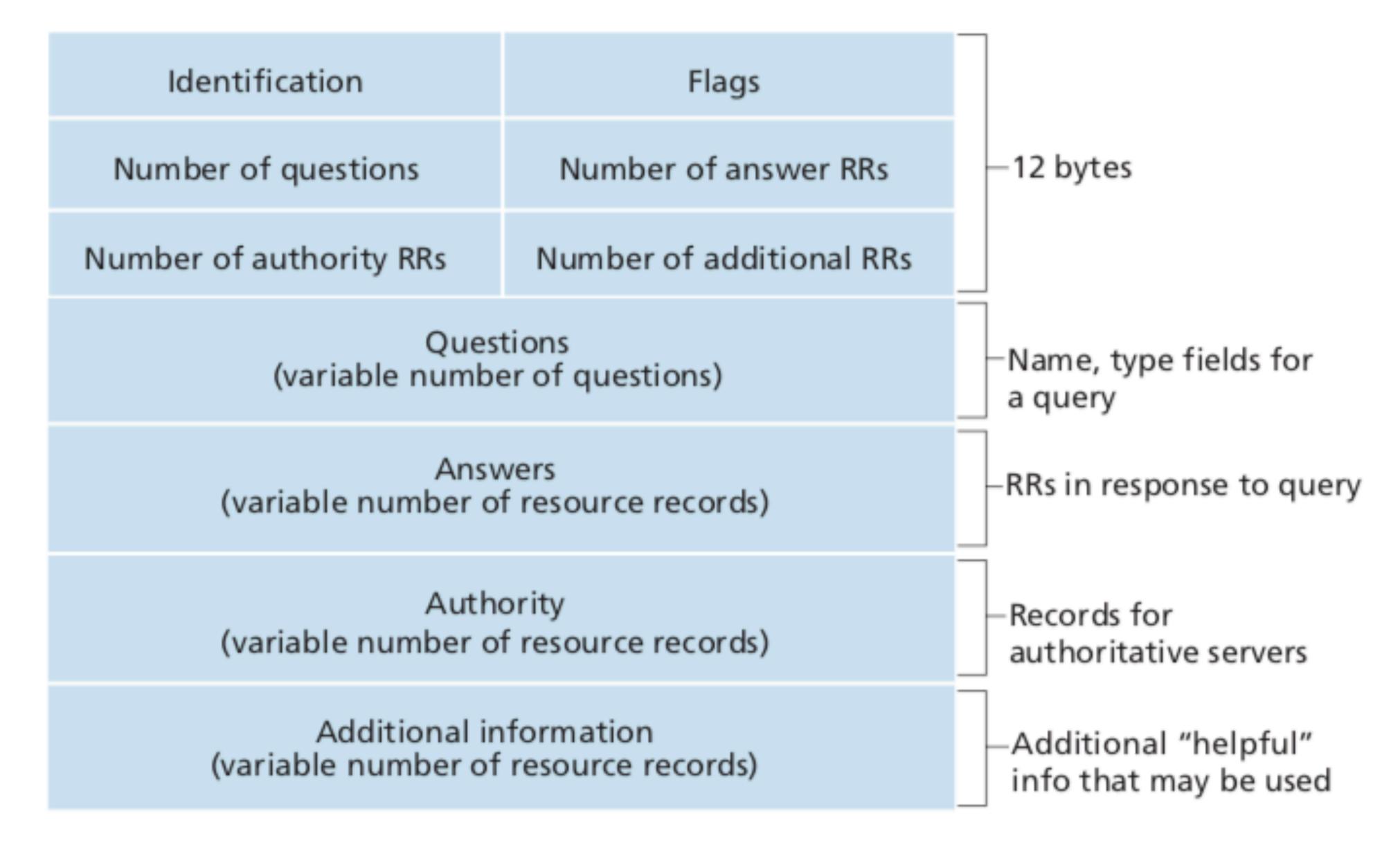
1 - Explore DNS protocol

2 - Compare DNS recursive and iterative approaches

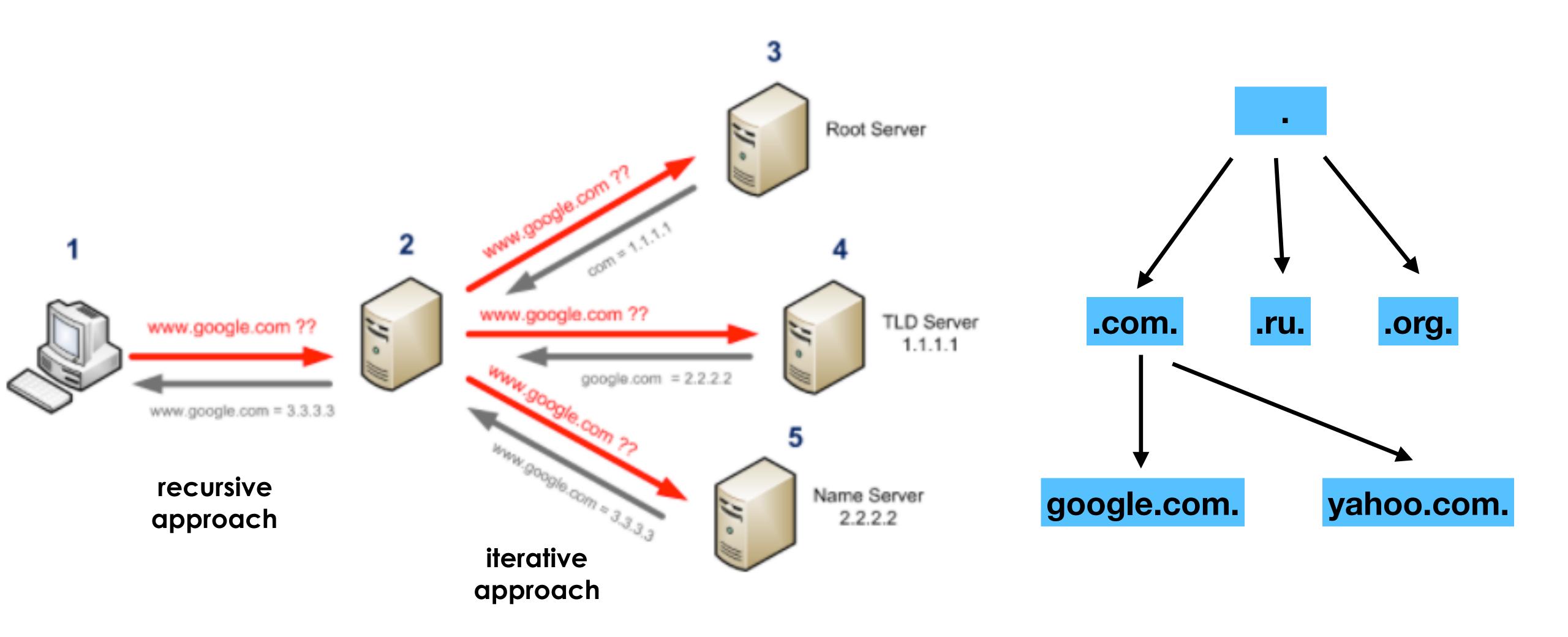
TCP/IP stack



DNS message format

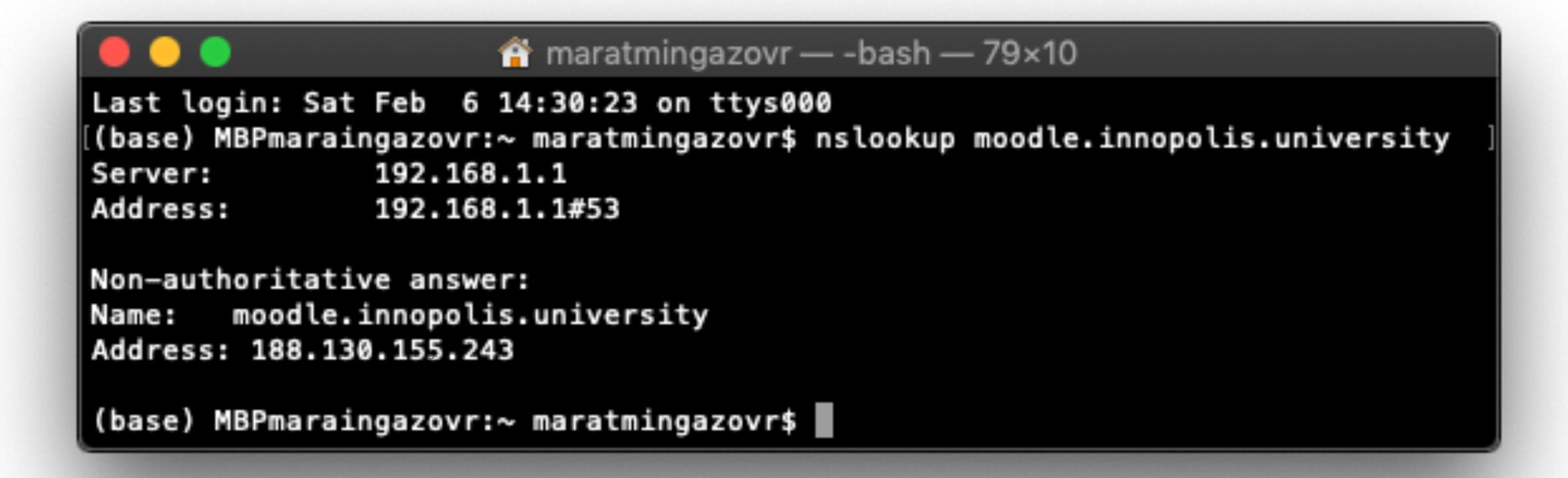


DNS - Domain Name System



NSLOOKUP

nslookup (from *name server lookup*) is a network administration commandline tool for querying the Domain Name System (DNS) to obtain domain name or IP address mapping, or other DNS records.



Task. Find moodle.innopolis.university ip address using dns iterative approach

- 1) Find the root DNS servers
- 2) Find the ip address of root DNS server
- 3) Ask root DNS server to provide us ip address of moodle.innopolis.university
- 4) Find the ip address of .university DNS server
- 5) Ask .university DNS server to provide us ip address of moodle.innopolis.university
- 6) Find the ip address of innopolis.university DNS server
- 7) Ask innopolis.university DNS server to provide us ip address of moodle.innopolis.university

Links:

https://www.cloudns.net/blog/10-most-used-nslookup-commands/ https://www.fir3net.com/Networking/Protocols/dns-nslookup-how-to-find-the-root-servers.html