Exercise: Networks, Internet and Protocols

Problems for exercises and homework for the "Software Technologies" course @ Software University.

1. Trace the route to a certain IP address

1. Use the ping command to test connectivity to an external website of your choosing /Example: wikipedia.com/
2. Add a screenshot of the result here:
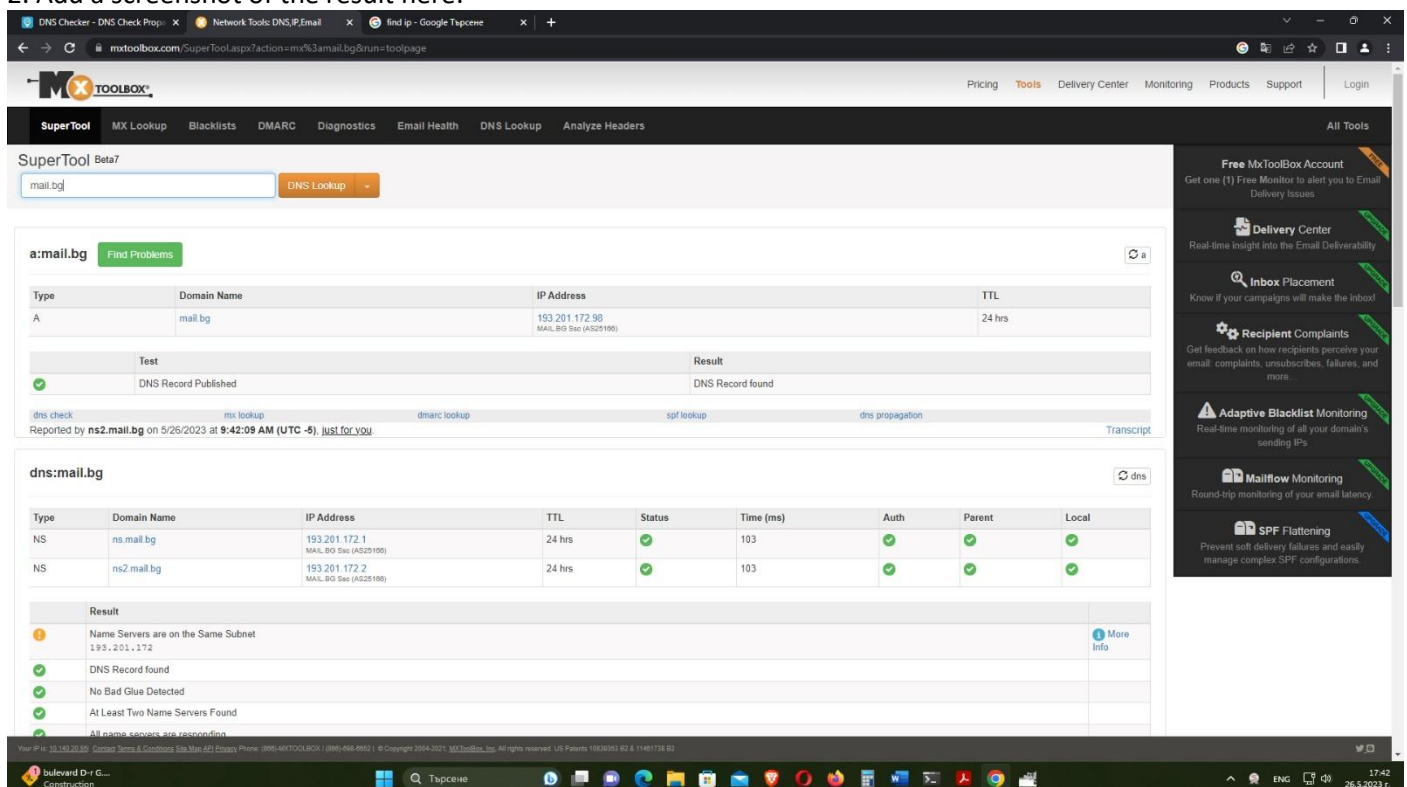
```
Tracing route to mail.bg [193.201.172.98]
over a maximum of 30 hops:

  1    <1 ms    <1 ms    <1 ms  192.168.3.1
  2     *         *        *    Request timed out.
  3    28 ms    20 ms    19 ms  10.98.9.1
  4     *       26 ms      *    10.98.9.253
  5    28 ms    20 ms    19 ms  46-10-207-103.ip.btc-net.bg [46.10.207.103]
  6    31 ms    20 ms    21 ms  62-73-93-233.ip.btc-net.bg [62.73.93.233]
  7    26 ms    20 ms    21 ms  62-73-93-234.ip.btc-net.bg [62.73.93.234]
  8    23 ms    23 ms    18 ms  mail.bg [193.201.172.98]

Trace complete.
```

2. Find the IP address behind a domain name

1. Using an online DNS lookup tool, like **DNS Checker** or **MX Toolbox** find the IP address of a domain. /Example: medium.com/
2. Add a screenshot of the result here:

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3. Execute HTTP GET

1. Using **https://restcountries.com/** and DevTools on your browser. Execute a GET request for a country of your choosing. /Example: https://restcountries.com/v3.1/name/deutschland/
2. Add a screenshot of the result with DevTools open here:

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