

INFO 102 Lab 12: The Internet

Partner #1: Name: _____ Net ID: _____

Partner #2: Name: _____ Net ID: _____

What is the primary purpose of each of the following protocols? Explain your answer to your partner.

Partner 1: IP

Partner 2: DNS

Partner 1: TCP

Your computer is *online*, but it is not *part of* the Internet. Which of the following operations can it do? Write “Yes” or “No” by each and explain why to your partner.

Partner 2: Send data to other machines

Partner 1: Send DNS requests

Partner 2: Receive data from other machines

Partner 1: Respond to DNS requests sent by others

Partner 2: Route data between two other machines

Partner 1: Use TCP

Last week U of I announced (<https://massmail.illinois.edu/massmail/1486908145.html>) a plan to find a “cloud-based platform” to handle student registration. What does “cloud-based” mean?

On the labs page, use the “DNS lookups” tool to fill in the following information.

Does **las.illinois.edu** support IPv6?

Does **las.illinois.edu** support subdomains?

Does **cs.illinois.edu** support IPv6?

Does **cs.illinois.edu** support subdomains?

Do the two (las. And cs.) each have their own DNS servers, or do they share the same one?

Does **courses.grainger.illinois.edu** support IPv6?

Does **courses.grainger.illinois.edu** support subdomains?

Our course website is hosted on **courses.grainger.illinois.edu**. The DNS entry shows two other names for that URL: an IP address and a canonical name.

Try using the IP address to access our course website (<https://130.126.151.14/cs102/sp2026/>). You'll see a warning page. View the “Advanced” text and explain briefly what the problem is:

Do you expect the same problem with the canonical name,
<https://engr-courses-03.engr.illinois.edu/cs102/sp2026/>?

Test your answer by visiting that canonical name URL. Did it work?

If this doesn't match your prediction, talk with a lab proctor or others to understand and then explain what you learned below:

When you're done, check out with a TA or CA and hand over this completed worksheet.

Bye!