CIS 3329 Assignment 5

Due: Thursday, March 22nd

40 Points

Description

nslookup is a common tool used for querying name servers. A very nice article describing its use on Windows machines may be found on a Microsoft Support site.

Using nslookup (or if you'd prefer, the commands dig and host will do the job if they're installed on your computer), please answer the following questions. For each question, please indicate the command typed into nslookup that you used in order to answer the question.

Questions

- List the network information about the machine you're using to complete the assignment:
  - Hostname (even if it's only useful locally):
  - IP address (even if it's a private IP address):
  - DNS
  - MAC address
- What are some IPv4 addresses for google.com?
- What is an IP address for google's IPv6 site (ipv6.google.com)?
- Does Temple seem to have an IPv6 presence?
- What is the name and IP address of a local name server for Temple?
- What is the name and IP address of a local name server for your home ISP?
- What is the name and IP address of the mail server for temple.edu?
- What is the name and IP address of the mail server for your home ISP?
- What are the names of the root name servers (Hint – you'd do the appropriate query for the name ".")?
- What is the IP address for one of them?
- What are the names of some .com servers?
- What is the IP address for one of them?
- Look up a domain name registrar.
  - What is the name of the registrar?
  - Make up a domain name (e.g, MyNetworkProfessorBoresMe.com). What is it?

- What is the yearly cost to register the domain name you've picked? (Note: you do not have to actually pay for it. We just want to know what the hypothetical cost would be.)
- What would be the authoritative name server for your new domain?
- Using the information from lecture and the textbook, what information needs to be entered into the Domain Name System so that people can find your site by name (i.e., what records need to be entered, what is their type, and what information would be found there)?
- How long does the registrar claim it takes for the newly created domain information to be available across the internet?
  - Where does this information need to propagate?
- Look up a web hosting service.
  - What is the name of the company?
  - What are its charges per month for storage and bandwidth?
  - What platform (Windows, Linux, etc)?
  - Do they do domain name registrations?
  - If they handle DNS, what are the names and IP addresses of its DNSs?

What to submit

Please submit your answers to the questions to your lab instructor.