Q1. What are the IP address for utep.edu, engineering.utep.edu, and cs.utep.edu? Hint: nslookup

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Graphical user interface, text

Description automatically generated



Graphical user interface, text, application

Description automatically generated



Text

Description automatically generated



Q2. If a packet comes to me from 67.192.28.19 should I be suspicious? Why or why not? Hint: nslookup

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Yes, because it is not a usual IP address, since mostly likely it starts with 3 digits numbers and this IP starting with 2 digits is ss[ocops. In addition, when running a command ‘nslookup 67.192.28.19’, the return is that server can’t find. Thus, a packet coming from 67.192.28.19 should not be trusted.

Text

Description automatically generated

Q3. Which domain is older, nigelward.com or freudenthal.net? Hint: whois

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Command: *whois nigelward.com*

Text

Description automatically generated

Command: whois freudenthal.net

Text

Description automatically generated

Comparing the date of creation between nigelward.com and fueudenthal.net, noted that freudenthal.net is older.

Q4. Who runs networking at UTEP? Hint: whois

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Graphical user interface, text, chat or text message

Description automatically generated

Q5. How long can you confidently expect UTEP to remain at 129.108.0.145? Hint: nslookup -type=soa

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Command: nslookup -type=soa utep.edu

Text

Description automatically generated



Q6. The argument to ping can be either a domain name or an IP address. For which of these does ping need to do a DNS lookup?

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In both cases, since if a regular domain is given, it will return IP address. If IP address is given, retular domain will be returned. Thus, in eithercase, it will do “forward” dns lookup, and reverse dns lookup.