Harvard University
CSCI S-40, Communication Protocols and Internet Architectures

Reading Assignment for Lecture 6

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<u>Reading Assignment on Routing and BGP</u>
- In the course textbook <u>Internetworking with TCP/IP Volume One - 6th Edition</u>
  * In chapter 13, read sections 13.6 through 13.18
- Read RFC 4271 (BGP), pages 1 through 20.

NOTE: In both of these readings assignments you should focus on BGP operation and the purpose of the different BGP messages, not the format or syntax of the specific BGP messages.

<u>Reading Assignment on IPv6 Addressing and IPv6 Implementation</u>
- In the course textbook <u>Internetworking with TCP/IP Volume One - 6th Edition</u>
  * In chapter 5, read sections 5.14 through 5.25
  * In chapter 6, read sections 6.18 and 6.19
  * In chapter 7, read sections 7.1 through 7.13.

NOTE: We realize that portions of these chapters have been previously assigned; please read this material once again, but with your focus on IPv6 and routing.

- Read RFC 8200 (IPv6) sections 1 – 8, skim sub-sections 4.3 through 4.8 and 8.4
    Note that RFC 2460, the Draft Standard for IPv6 which we have used for
    20 years, is now obsolete.   See https://tools.ietf.org/html/rfc2460
- Read RFC 4291 (IPv6 addressing) sections 1 and 2
- Read RFC 2464 (IPv6 over Ethernet)
- Read this post about the standardization of IPv6
     https://www.internetsociety.org/blog/2017/07/rfc-8200-ipv6-has-been-standardized/

- As mentioned in the previous reading assignment, a great source of information on IPv6 and the current status of the transition to this protocol is the Internet Society.
        https://www.internetsociety.org/issues/ipv6/
        https://www.internetsociety.org/deploy360/ipv6/

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