System Administration for Beginners

Week 4 Homework

March 1, 2010

Please turn in your homework at the beginning of class, with the assignment title, your name, **inst** login, and the answers with some justification when applicable (A sentence or two is fine).

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1. Match the default ports for SSH, FTP, SMTP, HTTPS.	

- (a) 80
- (b) 24
- (c) 65535
- (d) 53
- (e) 21
- (f) 443
- (g) 25
- (h) 123
- (i) 22
- 2. If you owned all the IP addresses that began with 192.168, where the latter two numbers could be a valid number, approximately how many IP addresses do you own?
 - (a) 20 000
 - (b) 47 500
 - (c) 65 000
 - (d) 100 000
- 3. Reverse DNS has to match forward DNS
 - (a) True
 - (b) False
- 4. Which of the following is the best way to uniquely identify a computer on the Internet?
 - (a) domain name

- (b) IP address
- (c) server name
- (d) A record
- 5. The most efficient and fastest route between two points on Internet is the shortest path.
 - (a) True
 - (b) False
- 6. The number of routers between two Internet points, as reported by traceroute, is most related to which of the following properties?
 - (a) the speed of the connection between them
 - (b) the IP addresses of the two Internet points
 - (c) the domain names of the two internet points
 - (d) the distance between them
- 7. Of the following directories, where are you most likely to find the adduser command?
 - (a) /etc
 - (b) /home
 - (c) /bin
 - (d) /sbin
- 8. The root user can read and write to any user's files.
 - (a) True
 - (b) False
- 9. For video streaming, what protocol would you most likely use?
 - (a) UDP
 - (b) TCP
 - (c) STREAM
 - (d) P2P
- 10. If you were designing a new proprietary software that required a new proprietary protocol to speak to a central server (*i.e.*, secret DRM protection), what layer of the OSI model would you be most concerned with?
 - (a) Physical
 - (b) Transport
 - (c) Application
 - (d) Communication
 - (e) None of the above