

# System Administration for Beginners

## Week 4 Homework

October 06, 2008

1. What are the default ports for SSH, FTP, SMTP, HTTPS? (circle all that apply)
  - (a) 80
  - (b) 25
  - (c) 3845
  - (d) 15
  - (e) 443
  - (f) 22
  - (g) 123
  - (h) 21
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. Of the following directories, where are you most likely to find the `adduser` command?
  - (a) `/etc`
  - (b) `/home`
  - (c) `/bin`
  - (d) `/sbin`
6. The `root` can read and write to any user's files.
  - (a) True
  - (b) False
7. It is possible to use any positive integer value port for a server daemon to listen on.
  - (a) True
  - (b) False
8. Where would one specify setup options during the process of installing a program (e.g., Apache)?
  - (a) `./configure`
  - (b) `make`
  - (c) `make install`
  - (d) `apachectl`
9. For video streaming, which protocol would you 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