

Reference:

True/False

1-3 [https://en.wikipedia.org/wiki/OSI\\_model](https://en.wikipedia.org/wiki/OSI_model)

1-7 discuss with 施秉志

1-9 discuss with 施秉志，顏毓均

1-10 discuss with 施秉志，顏毓均

Multiple Choice Question

2-4 [http://linux.vbird.org/linux\\_server/0250simple\\_firewall/0320nat.php](http://linux.vbird.org/linux_server/0250simple_firewall/0320nat.php)

2-5 <http://www.amazon.com/Cisco-WS-C2960S-48LPS-L-2960S-Series-Switch/dp/B006ON61Z0>

2-7 [https://en.wikipedia.org/wiki/DHCP\\_snooping](https://en.wikipedia.org/wiki/DHCP_snooping)

Word Puzzle

3-4 [http://linuxcommand.org/lc3\\_writing\\_shell\\_scripts.php](http://linuxcommand.org/lc3_writing_shell_scripts.php)

3-11 [http://linux.vbird.org/linux\\_basic/0220filemanager/0220filemanager.php#mkdir](http://linux.vbird.org/linux_basic/0220filemanager/0220filemanager.php#mkdir)

3-13 <http://linux.die.net/man/1/grep>

Common Words

4 [http://linuxcommand.org/lc3\\_writing\\_shell\\_scripts.php](http://linuxcommand.org/lc3_writing_shell_scripts.php)

True/False

1.F

2.T

3.F : TCP is in the transport layer and IP is in the network layer.

4.F : Hub and switch can both have multiple ports.

5.F : A router works between different kind of networks ; for example, wifi and ethernet, while a switch works between same kind of networks.

6.T

7.F : DHCP server 負責分配IP，傳輸不會影響

8.F : 內部網路傳輸不會經過gateway

9.F : Private IPs are limited

10.T

Multiple Choice Question

1. c) IPsec VPN

2. c) 192.168.0.0/14

3. c) 192.168.1.0

4. a) No, since NAT is required to map between private IPs and public IPs.
5. c) NT\$60000
6. b) Increase the wireless signal strength of each AP.
7. b) DHCP snooping
8. d) Encrypt traffic when you don't trust your network provider.

### Word Puzzle

1. passwd
2. cat olaf
3. echo \$PATH
4. chmod +x legislator.sh
5. apt-get install gcc
6. chsh
7. rm -rf kmt
8. zip -r hw.zip hw
9. head -n 12 elsa
10. cp nico bili
11. mkdir -p taiwan/taipei
12. mv google alphabet
13. grep -v info log
14. ssh bbsu@ptt.cc
15. cd ../../
16. chmod 755 run.sh