

Course No:

University of Palestine

Instructor Name:

Course Title: ادارة نظم التشغيل



Student No.: _____

Date: 00/00/2016

Student Name: _____

No. of Questions: 3 Questions

Final Exam

College Name: _____

Time: 2 hours

1st semester 2016/2017

Dep. / Specialist: _____

Using Calculator (No)

Total Grade: 50

Using Dictionary (No)

First Question: True and False?, and Corrects the False statements**10 points**

- 1- **pwd**, command use for display the path of the current directory ().
- 2- **grep** 'keyword' file, command use for search a file for keywords ().
- 3- command **>** file, use for redirect standard output to a file ().
- 4- command **<** file, use for redirect standard input from a file ().
- 5- **ls list*** , this will list all files in the current directory starting with list.... ().
- 6- The safest way to name a file is to use only alphanumeric characters, that is, letters and numbers, together with underscore and dot. ().
- 7- command **&** use for run command in background ().
- 8- We do background programs that require user interaction ().
- 9- **-rwxrwxrwx** , a file that everyone can read, write and execute and delete. ().
- 10- It is possible to kill off other users' processes ().

Second Question: 15 points

- 1- What are the differences between C files and shell file in linux/unix environments?
And what are the similarities?
- 2- What are the responsibilities of system administrator?
- 3- What is linux DHCP?
- 4- What are the Runlevels defined in Linux?

Third question : Linux Network 5 points

Help system administrator XYZ organization, to separate the pc2 network zone from pc1 network zone.

- 1- What's IP eth0 pc1?
- 2- What's IP eth0 proxy?
- 3- What's IP eth1 proxy?

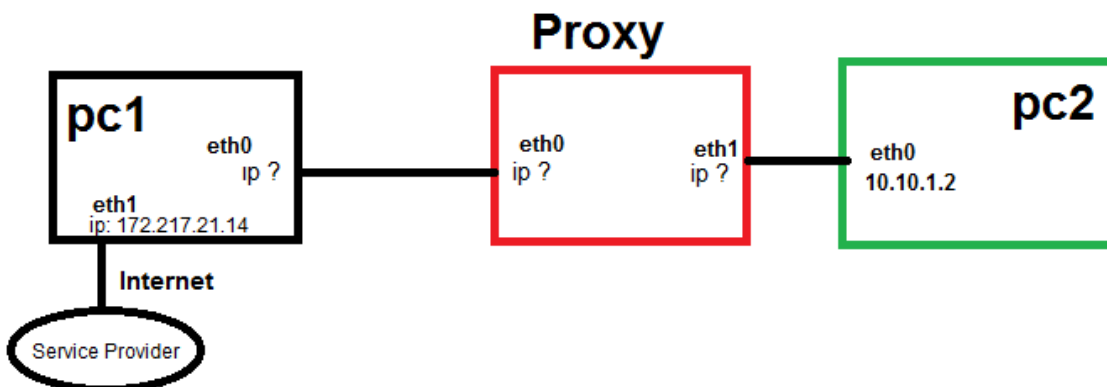


Figure 1. Part of LAN XYZ Organization.

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Third question : Linux Hosts File 10 points

Help system administrator wants to block the domain www.youtube.com from the (Figure 2) LANs network of XYZ organization.

For example, if you ask for youtube, the DNS servers will return youtube's IP address to your computer. But if you wanted to block youtube on that computer, you can add an entry in the hosts (10.10.10.10 for replace the youtube's IP) file that tells your computer that youtube points to some other IP address that's different from youtube's actual IP address.

- 1- Where should we write the configuration `/etc/hosts` file, on which pc (**pc1** or **proxy** or **pc2**)? and Why?
- 2- Please open the `/etc/hosts` file and write the line configuration to block youtube's IP by making responds to users the IP 10.10.10.10 instead of youtube website.

Third question : Backup 10 points

Help system administrator XYZ organization to write Crontab commands,

- 1- Backup **pc1** every day.
- 2- Backup **pc2** every month.
- 3- Delete the temp files from the folder **Home/tmp** every reboot for **proxy pc**.
- 4- Backup **pc1** and **proxy** each first minute of every year.

السؤال التالي موجه إلى المتغيبين عن الإمتحان النصف الثاني فقط

1- Write command to remove user Bob account?

2- Please explain each line from configuration file below: `/etc/dhcpd.conf`

```
subnet 172.28.0.0 netmask 255.255.0.0 {
  authoritative;
  option routers          172.28.1.254;
  option subnet-mask     255.255.0.0;
  option domain-name     "up.edu.ps";
  option domain-name-servers 172.31.1.1;
  range 172.28.4.2 172.28.7.254;
  default-lease-time 7200;
  max-lease-time 10800;
  host tc1 {
    hardware ethernet 00:80:64:1A:E9:14;
    fixed-address 172.28.120.32;
  }
}
```

Good Luck