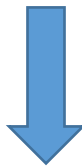


CompTIA Linux+ Certification LX0-104 Exam



- **Vendor: CompTIA**
- **Exam Code: LX0-104**
- **Exam Name: CompTIA Linux+ Powered by LPI – Exam 2 (LX0-104)**

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QUESTION 1

What output will the following command produce?

```
seq 1 5 20
```

- A. 1
- B. 100
- C. 120
- D. 2
- E. 5

Answer: A

QUESTION 2

When the command `echo $$` outputs 12942, what is the meaning of 12942?

- A. It is the process ID of the echo command.
- B. It is the process ID of the current shell.
- C. It is the process ID of the last command executed.
- D. It is the process ID of the last command which has been placed in the background.

Answer: B

QUESTION 3

Which of the following commands puts the output of the command `date` into the shell variable `mydate`?

- A. `mydate="$(date)"`
- B. `mydate="exec date"`
- C. `mydate="$((date))"`
- D. `mydate="date"`
- E. `mydate="{date}"`

Answer: A

QUESTION 4

How can the existing environment variable `FOOBAR` be suppressed for the execution of the script `./myscript` only?

- A. `unset -v FOOBAR;./myscript`
- B. `set -a FOOBAR="";./myscript`
- C. `env -u FOOBAR./myscript`
- D. `env -i FOOBAR./myscript`

Answer: C

QUESTION 5

When the command `echo $` outputs 1, which of the following statements is true?

- A. It is the process ID 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.

D. It is the exit value of the echo command.

Answer: C

QUESTION 6

What command displays all aliases defined in the current shell? (Specify the command without any path information.)

Answer:

alias, alias -p

QUESTION 7

What is the purpose of the file /etc/profile?

- A. It contains the welcome message that is displayed after login.
- B. It contains security profiles defining which users are allowed to log in.
- C. It contains environment variables that are set when a user logs in.
- D. It contains default application profiles for users that run an application for the first time.

Answer: C

QUESTION 8

The X11 configuration file xorg.conf is grouped into sections. How is the content of the section SectionName associated with that section?

- A. It is placed in curly brackets as in Section SectionName { ... }.
- B. It is placed between a line containing Section "SectionName" and a line containing EndSection.
- C. It is placed between the tags <Section name="SectionName"> and </Section>.
- D. It is placed after the row [SectionName].
- E. It is placed after an initial unindented Section "SectionName" and must be indented by exactly one tab character.

Answer: B

QUESTION 9

What is the name of the simple graphical login manager that comes with a vanilla X11 installation? (Specify ONLY the command without any path or parameters.)

Answer:

xdm

QUESTION 10

Which command can be used to investigate the properties for a particular window in X by clicking that window? (Specify ONLY the command without any path or parameters.)

Answer:

/usr/bin/xwininfo, xwininfo

QUESTION 11

With X11 forwarding in ssh, what environment variable is automatically set in the remote host shell that is not set when X11 forwarding is not enabled? (Specify only the environment variable without any additional commands or values.)

Answer:

DISPLAY, \$DISPLAY

QUESTION 12

Which of the following programs uses the hosts.allow file to perform its main task of checking for access control restrictions to system services?

- A. tcpd
- B. inetd
- C. fingerd
- D. mountd
- E. xinetd

Answer: A

QUESTION 13

Which of the following commands can be used to limit the amount of memory a user may use?

- A. umask
- B. usermod
- C. ulimit
- D. passwd
- E. chage

Answer: C

QUESTION 14

Which of the following commands connects to the remote host example.com which has OpenSSH listening on TCP port 2222? (Select TWO.)

- A. ssh --port 2222 example.com
- B. ssh -p 2222 example.com
- C. ssh -o Port=2222 example.com
- D. ssh -o GatewayPort=2222 example.com
- E. ssh example.com:2222

Answer: BC

QUESTION 15

Which directory holds the files that configure the xinetd service when using several configuration files instead of an integrated configuration file? (Specify the full path to the directory.)

Answer:

/etc/xinetd.d/, /etc/xinetd.d

QUESTION 16

What is a purpose of an SSH host key?

- A. It must be sent by any SSH client in addition to a user key in order to identify the client's host.
- B. It provides the server's identity information to connecting SSH clients.
- C. It is the root key by which all user SSH keys must be signed.
- D. It authenticates any user that logs into a remote machine from the key's host.
- E. It is used by system services like cron, syslog or a backup job to automatically connect to remote hosts.

Answer: B

QUESTION 17

What argument to the -type option of find will match files that are symbolic links? (Specify only the argument and no other options or words.)

Answer:

`l`

QUESTION 18

Which command is used to set restrictions on the size of a core file that is created for a user when a program crashes?

- A. `core`
- B. `edquota`
- C. `ulimit`
- D. `quota`

Answer: C

QUESTION 19

On a Linux system with shadow passwords enabled, which file in the file system contains the password hashes of all local users? (Specify the full name of the file, including path.)

Answer:

`/etc/shadow`

QUESTION 20

Which file used by XDM specifies the default wallpaper?

- A. `/etc/X11/xdm/Xsetup`
- B. `/etc/X11/xdm.conf`
- C. `/etc/X11/xdm/Defaults`
- D. `/etc/X11/defaults.conf`

Answer: A

QUESTION 21

What is the purpose of the `iconv` command?

- A. It converts bitmap images from one format to another such as PNG to JPEG.
- B. It verifies that the root directory tree complies to all conventions from the Filesystem Hierarchy Standard (FHS).
- C. It displays additional meta information from icon files ending in `.ico`.
- D. It changes the mode of an inode in the ext4 file system.
- E. It converts files from one character encoding to another.

Answer: E

QUESTION 22

In case neither `cron.allow` nor `cron.deny` exist in `/etc/`, which of the following is true?

- A. Without additional configuration, no users may have user specific crontabs.

- B. Without additional configuration, all users may have user specific crontabs.
- C. The cron daemon will refuse to start and report missing files in the system's logfile.
- D. When a user creates a user specific crontab the system administrator must approve it explicitly.

Answer: A

QUESTION 23

Which character in the password field of /etc/passwd is used to indicate that the encrypted password is stored in /etc/shadow?

- A. *
- B. -
- C. s
- D. x

Answer: D

QUESTION 24

Which command can be used to delete a group from a Linux system?

- A. groupdel
- B. groupmod
- C. groups
- D. groupedit

Answer: A

QUESTION 25

Which of the following files assigns a user to its primary group?

- A. /etc/pgroup
- B. /etc/shadow
- C. /etc/group
- D. /etc/passwd
- E. /etc/gshadow

Answer: D

QUESTION 26

In which file, if present, must all users be listed that are allowed to use the cron scheduling system? (Specify the full name of the file, including path.)

Answer:
/etc/cron.allow

QUESTION 27

Which environment variable should be set in order to change the time zone for the commands run from within the environment variable's scope? (Specify the variable name only.)

Answer:
TZ

QUESTION 28

What is true regarding the command `userdel --force --remove bob`? (Select TWO.)

- A. The user bob is removed from the system's user database.
- B. The user bob's home directory is removed.
- C. The locate database is updated to drop files owned by bob.
- D. All files owned by bob are removed from all mounted filesystems.
- E. In case bob was the last member of a group, that group is deleted.

Answer: AB

QUESTION 29

The system's timezone may be set by linking `/etc/localtime` to an appropriate file in which directory? (Provide the full path to the directory, without any country information.)

Answer:

`/usr/share/zoneinfo/`

QUESTION 30

To prevent a specific user from scheduling tasks with `at`, what should the administrator do?

- A. Add the specific user to `/etc/at.allow` file.
- B. Add the specific user to `[deny]` section in the `/etc/atd.conf` file.
- C. Add the specific user to `/etc/at.deny` file.
- D. Add the specific user to `nojobs` group.
- E. Run the following: `atd --deny [user]`.

Answer: C

QUESTION 31

What is true about the `ntpdate` command?

- A. It is the primary management command for the NTP time server.
- B. It updates the local system's date (i.e. day, month and year) but not the time (i.e. hours, minutes, seconds).
- C. It queries one or more NTP time servers and adjusts the system time accordingly.
- D. It sends the local system time to one or many remote NTP time servers for redistribution.
- E. It can be used by any user to set the user clock independently of the system clock.

Answer: C

QUESTION 32

Which command is used to sync the hardware clock to the system clock? (Specify ONLY the command without any path or parameters.)

Answer:

`hwclock, /sbin/hwclock, /usr/sbin/hwclock`

QUESTION 33

Which of the following is a legacy program provided by CUPS for sending files to the printer queues on the command line?

- A. `lpd`

- B. lpp
- C. lpq
- D. lpr

Answer: D

QUESTION 34

Which option in the /etc/ntp.conf file specifies an external NTP source to be queried for time information? (Specify ONLY the option without any values or parameters.)

Answer:

server

QUESTION 35

After configuring printing on a Linux server, the administrator sends a test file to one of the printers and it fails to print. What command can be used to display the status of the printer's queue? (Specify ONLY the command without any path or parameters.)

Answer:

lpq, /usr/bin/lpq, lpstat, /usr/bin/lpstat

QUESTION 36

Which of the following commands is used to rotate, compress, and mail system logs?

- A. rotatelog
- B. striplog
- C. syslogd --rotate
- D. logrotate
- E. logger

Answer: D

QUESTION 37

What is the purpose of the command mailq?

- A. It fetches new emails from a remote server using POP3 or IMAP.
- B. It is a multi-user mailing list manager.
- C. It is a proprietary tool contained only in the qmail MTA.
- D. It queries the mail queue of the local MTA.
- E. It is a command-line based tool for reading and writing emails.

Answer: D

QUESTION 38

Which of the following is observed and corrected by a NTP client?

- A. The skew in time between the system clock and the hardware clock.
- B. The skew in time between the system clock and the reference clock.
- C. Changes in the time zone of the current computer's location.
- D. Adjustments needed to support Daylight Saving Time.

Answer: B

QUESTION 39

After adding a new email alias to the configuration, which command must be run in order to ensure the MTA knows about it? (Specify the command without any path but including all required parameters.)

Answer:

`newaliases, sendmail -bi`

QUESTION 40

Please specify the top directory containing the configuration files for the CUPS printing system. (Specify the full path to the directory.)

Answer:

`/etc/cups, /etc/cups/`

QUESTION 41

Why is the correct configuration of a system's time zone important?

- A. Because the conversion of Unix timestamps to local time relies on the time zone configuration.
- B. Because the time zone is saved as part of the modification times of files and cannot be changed after a file is created.
- C. Because the environment variables LANG and LC_MESSAGES are, by default, set according to the time zone.
- D. Because NTP chooses servers nearby based on the configured time zone.

Answer: A

QUESTION 42

Which of the following are commonly used Mail Transfer Agent (MTA) applications? (Select THREE.)

- A. Postfix
- B. Procmail
- C. Sendmail
- D. Exim
- E. SMTPd

Answer: ACD

QUESTION 43

What is true regarding the command `sendmail`?

- A. With any MTA, the `sendmail` command must be run periodically by the cron daemon.
- B. All MTAs, including Postfix and Exim, provide a `sendmail` command.
- C. The `sendmail` command prints the MTAs queue history of which mails have been sent successfully.
- D. It is only available when the `sendmail` MTA is installed.

Answer: B

QUESTION 44

Which file inside the CUPS configuration directory contains the definition of the printers?

- A. `cups-devices.conf`

- B. snmp.conf
- C. printcap.conf
- D. printers.conf
- E. cupsd.conf

Answer: D

QUESTION 45

What is true regarding the file ~/.forward?

- A. As it is owned by the MTA and not writable by the user, it must be edited using the editaliases command.
- B. After editing ~/.forward the user must run newaliases to make the mail server aware of the changes.
- C. Using ~/.forward, root may configure any email address whereas all other users may configure only their own addresses.
- D. When configured correctly, ~/.forward can be used to forward each incoming mail to more than one other recipient.

Answer: D

QUESTION 46

What entry can be added to the syslog.conf file to have all syslog messages generated by a system displayed on console 12?

- A. *.* /dev/tty12
- B. /var/log/messages | /dev/tty12
- C. | /dev/tty12
- D. syslog tty12
- E. mail.* /dev/tty12

Answer: A

QUESTION 47

Which of the following tasks can be accomplished using the command date? (Select TWO.)

- A. Synchronize the hardware and system clocks.
- B. Output date and time in different formats.
- C. Set the system clock.
- D. Set the hardware clock.
- E. Update the time via NTP.

Answer: BC

QUESTION 48

Which of the following parameters are used for journalctl to limit the time frame of the output? (Select TWO.)

- A. --from=
- B. --since=
- C. --until=
- D. --upto=
- E. --date=

Answer: BC

QUESTION 49

Which of the following are syslog facilities? (Select TWO.)

- A. local7
- B. mail
- C. advanced
- D. postmaster
- E. remote

Answer: AB

QUESTION 50

Which command, available with all MTAs, is used to list the contents of the MTA's mail queue? (Specify ONLY the command without any path or parameters.)

Answer:

mailq, /usr/bin/mailq, sendmail -bp, /usr/sbin/sendmail -bp,
/usr/lib/sendmail -bp,

QUESTION 51

Which of the following IPv4 networks are reserved by IANA for private address assignment and private routing? (Select THREE.)

- A. 127.0.0.0/8
- B. 10.0.0.0/8
- C. 169.255.0.0/16
- D. 172.16.0.0/12
- E. 192.168.0.0/16

Answer: BDE

QUESTION 52

What is true regarding TCP port 23?

- A. Port 23 is the well known port for the telnet service which is a plain text protocol that should no longer be used.
- B. Port 23 is the well known port for the SSH service which provides secure logins.
- C. Port 23 is the well known port for the rlogin service which is SSL secured by default.
- D. Port 23 is the well known port for the system login services which are encrypted when the user runs the starttls command in his login shell.

Answer: A

QUESTION 53

Which of the following lines are valid in the file /etc/hosts? (Select TWO.)

- A. 2001:db8::15 www.example.com www
- B. www.example.com www 203.0.13.15
- C. 203.0.113.15 www.example.com www
- D. www.example.com,www 203.0.13.15,2001:db8::15
- E. 2003.0.113.15,2001:db8::15 www.example.com www

Answer: AC

QUESTION 54

Which of the following keywords can be used in the file /etc/resolv.conf? (Select TWO.)

- A. substitute
- B. nameserver
- C. search
- D. lookup
- E. method

Answer: BC

QUESTION 55

With IPv6, how many bits have been used for the interface identifier of an unicast address? (Specify the number using digits only.)

Answer:

64

QUESTION 56

On a regular users workstation the route command takes a long time before printing out the routing table. Which of the following errors does that indicate?

- A. The local routing information may be corrupted and must be re-validated using a routing protocol.
- B. One of the routers in the routing table is not available which causes the automatic router failure detection mechanism (ARF-D) to wait for a timeout.
- C. There may accidentally be more than one default router in which case a default router election has to be done on the network in order to choose one router as the default.
- D. DNS resolution may not be working as route by default tries to resolve names of routers and destinations and may run into a timeout.

Answer: D

QUESTION 57

Which of the following is a valid IPv6 address?

- A. 2001:db8:3241::1
- B. 2001::db8:4581::1
- C. 2001:db8:0g41::1
- D. 2001%db8%9990%%1
- E. 2001.db8.819f..1

Answer: A

QUESTION 58

Which of the following details is NOT provided in any output from the netstat utility?

- A. broadcast services
- B. interface statistics
- C. masquerading connections

- D. network connections
- E. routing tables

Answer: A

QUESTION 59

Which of the following keywords can be used in the file /etc/nsswitch.conf to specify a source for host name lookups? (Select TWO.)

- A. resolv
- B. dns
- C. remote
- D. files
- E. hosts

Answer: BD

QUESTION 60

What is the command to delete the default gateway from the system IP routing table? (Select TWO.)

- A. route del default
- B. ifconfig unset default
- C. netstat -r default
- D. ip route del default
- E. sysctl ipv4.default_gw=0

Answer: AD

QUESTION 61

Which of the following is true about IPv6?

- A. With IPv6, the TCP port numbers of most services have changed.
- B. IPv6 no longer supports broadcast addresses.
- C. IPv4 addresses can be used without any change with IPv6.
- D. IPv6 no longer supports multicast addresses.
- E. For IPv6, UDP and TCP have been replaced by the Rapid Transmission Protocol RTP.

Answer: B

QUESTION 62

Which parameter must be passed to ifconfig to activate a previously inactive network interface? (Specify the parameter only without any command, path or additional options.)

Answer:

up

QUESTION 63

Which of the following tools used for DNS debugging, reports not only the response from the name server but also details about the query?

- A. dnsq
- B. dig

- C. hostname
- D. dnslookup
- E. zoneinfo

Answer: B

QUESTION 64

Which command, depending on its options, can display the open network connections, the routing tables, as well as network interface statistics. (Specify ONLY the command without any path or parameters.)

Answer:

netstat, /bin/netstat, ss, /usr/bin/ss

QUESTION 65

Which keyword must be listed in the hosts option of the Name Service Switch configuration file in order to make host lookups consult the /etc/hosts file?

Answer:

files

QUESTION 66

What is the purpose of the nsswitch.conf file?

- A. It is used to configure where the C library looks for system information such as host names and user passwords.
- B. It is used to configure network protocol port numbers such as for HTTP or SMTP.
- C. It is used to configure LDAP authentication services for the local system.
- D. It is used to configure which network services will be turned on during the next system boot.

Answer: A

QUESTION 67

Which of the following statements is valid in the file /etc/nsswitch.conf?

- A. multi on
- B. 192.168.168.4 dns-server
- C. hosts: files dns
- D. include /etc/nsswitch.d/

Answer: C

QUESTION 68

What is true regarding a default route?

- A. The default route is always used first. When the default route is not available more specific routes are tried.
- B. When a default route is set, all other routes are disabled until the default route is deleted.
- C. The default route is only used if there is not a more specific route to a destination host or network.
- D. Without a default route, no network communication even in directly attached networks is possible.

Answer: C

QUESTION 69

Which of the following commands can be used to display the local routing table? (Select TWO.)

- A. ifconfig
- B. dig
- C. netstat
- D. route
- E. trackroute

Answer: CD

QUESTION 70

Each entry in a crontab must end with what character?

- A. Tab
- B. Space
- C. Backslash
- D. Newline

Answer: D

QUESTION 71

Where are user specific crontabs stored?

- A. In the database file /etc/crontab.db which is shared by all users.
- B. As individual per-user files within /var/spool/cron.
- C. As individual per-user files in /etc/cron.user.d.
- D. In the .crontab file in the user's home directory.
- E. In the file /var/cron/user-crontab which is shared by all users.

Answer: B

QUESTION 72

Which file contains the date of the last change of a user's password?

- A. /etc/gshadow
- B. /etc/passwd
- C. /etc/pwdlog
- D. /etc/shadow
- E. /var/log/shadow

Answer: D

QUESTION 73

Which of the following fields can be found in the /etc/group file? (Select THREE.)

- A. The list of users that belong to the group.
- B. The home directory of the group.
- C. The name of the group.
- D. The description of the group.
- E. The password of the group.

Answer: ACE

QUESTION 74

Which commands can be used to change a user's account aging information? (Select THREE.)

- A. usermod
- B. passwd
- C. chattr
- D. chage
- E. chsh

Answer: ABD

QUESTION 75

What is NOT contained in the locale setting of the operating system?

- A. currency symbol
- B. language
- C. timezone
- D. thousands separator

Answer: C

QUESTION 76

Which of the following commands should be added to /etc/bash_profile in order to change the language of messages for an internationalized program to Portuguese (pt)?

- A. export LANGUAGE="pt"
- B. export MESSAGE="pt"
- C. export UI_MESSAGES="pt"
- D. export LC_MESSAGES="pt"
- E. export ALL_MESSAGES="pt"

Answer: D

QUESTION 77

Which of the following crontab entries will execute myscrip at 30 minutes past every hour on Sundays?

- A. 0 * * * 30 myscrip
- B. 30 * * * 6 myscrip
- C. 30 0 * * 0 myscrip
- D. 30 0-23 * * 0 myscrip
- E. 0 0-23 * * 30 myscrip

Answer: D

QUESTION 78

Which command is used to add an empty group to the system? (Specify ONLY the command without any path or parameters.)

Answer:

groupadd, /usr/sbin/groupadd

QUESTION 79

Which configuration file would be edited to change default options for the OpenSSH server?

- A. /etc/ssh/sshd_config
- B. /etc/ssh/ssh
- C. /etc/ssh/server
- D. /etc/ssh/ssh_config
- E. /etc/ssh/ssh_server

Answer: A

QUESTION 80

Which of the following commands preloads and manages keys that are used for automatic authentication while logging in to other machines using SSH?

- A. sshd
- B. ssh-agent
- C. ssh-keygen
- D. ssh-add

Answer: B

QUESTION 81

Which file lists which users can execute commands using sudo? (Specify the full name of the file, including path.)

Answer:
/etc/sudoers

QUESTION 82

When trying to unmount a device it is reported as being busy. Which of the following commands could be used to determine which process is causing this?

- A. debug
- B. lsof
- C. nessus
- D. strace
- E. traceroute

Answer: B

QUESTION 83

Which port is the default server port for the HTTPS protocol? (Specify the port number using digits.)

Answer:
443

QUESTION 84

Which of the following find commands will print out a list of files owned by root and with the SUID bit set in /usr?

- A. `find /usr -uid 0 -perm +4000`
- B. `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`

Answer: A

QUESTION 85

The presence of what file will temporarily prevent all users except root from logging into the system? (Specify the full name of the file, including path.)

Answer:

`/etc/nologin`

QUESTION 86

Which file contains a set of services and hosts that will be allowed to connect to the server by going through a TCP Wrapper program such as `tcpd`? (Specify the full name of the file, including path.)

Answer:

`/etc/hosts.allow`

QUESTION 87

Which configuration file would be edited to change the default options for outbound SSH sessions?

- 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 88

In an `xinetd` configuration file, which attribute specifies the network address that will be used to provide the service?

Answer:

`bind, interface`

QUESTION 89

Which of the following words is used to restrict the records that are returned from a `SELECT SQL` query based on a supplied criteria for the values in the records?

- A. `CASE`
- B. `FROM`
- C. `WHERE`
- D. `IF`

Answer: C

QUESTION 90

After issuing: `function myfunction { echo $1 $2 ; }` in Bash, which output does: `myfunction A B C`

Produce?

- A. A B
- B. A B C
- C. A C
- D. B C
- E. C B A

Answer: A

QUESTION 91

Which of the following commands lists all defined variables and functions within Bash?

- A. env
- B. set
- C. env -a
- D. echo \$ENV

Answer: B

QUESTION 92

Which of the following are requirements in order to run a shell script like a regular command from anywhere in the filesystem? (Select THREE.)

- A. The user issuing the command must be in the group script.
- B. The script file must be found in the \$PATH.
- C. The script file must have the executable permission bit set.
- D. The script must begin with a shebang-line (!) that points to the correct interpreter.
- E. The file system on which the script resides must be mounted with the option scripts.

Answer: BCD

QUESTION 93

By default, the contents of which directory will be copied to a new user's home directory when the account is created by passing the -m option to the useradd command? (Specify the full path to the directory.)

Answer:
/etc/skel

QUESTION 94

What word is missing from the following SQL statement?

_____ count(*) from tablename;

(Please specify the missing word using lower-case letters only.)

Answer:
select

QUESTION 95

What word is missing from the following SQL statement?

insert into tablename _____ (909, 'text');

(Please specify the missing word using lower-case letters only.)

Answer:

VALUES, values

QUESTION 96

What is the lowest numbered unprivileged TCP port? (Specify the number in digits only.)

Answer:

1024

QUESTION 97

Which of the following may occur as a consequence of using the command ifconfig? (Select THREE.)

- A. New name servers may be added to the resolver configuration.
- B. Network interfaces may become active or inactive.
- C. The routing table may change.
- D. IP addresses may change.
- E. The system's host name may change.

Answer: BCD

QUESTION 98

Which command is used to set the hostname of the local system? (Specify ONLY the command without any path or parameters.)

Answer:

hostname

QUESTION 99

Which of the following commands will help identify a broken router between the local and the remote machine?

- A. ps
- B. netstat
- C. nslookup
- D. ifconfig
- E. traceroute

Answer: E

QUESTION 100

Which of the following programs can be used to determine the routing path to a given destination?

- A. dig
- B. netstat
- C. ping
- D. route
- E. traceroute

Answer: E

QUESTION 101

What of the following can be done by the command `ifconfig`? (Select TWO.)

- A. Set a network interface active or inactive.
- B. Specify the kernel module to be used with a network interface.
- C. Allow regular users to change the network configuration of a network interface.
- D. Change the netmask used on a network interface.
- E. Specify which network services are available on a network interface.

Answer: AD

QUESTION 102

How many IP-addresses can be used for unique hosts inside the IPv4 subnet 192.168.2.128/28? (Specify the number only without any additional information.)

Answer:

14

QUESTION 103

Given the following routing table:

Kernel IP routing table						
Destination	Gateway	Genmask	Flags	Metric	Ref	Use Iface
0.0.0.0	192.168.178.1	0.0.0.0	UG	0	0	0 wlan0
192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	0 eth0
192.168.2.0	192.168.1.1	255.255.255.0	U	0	0	0 eth0
192.168.178.0	0.0.0.0	255.255.255.0	U	9	0	0 wlan0

How would an outgoing packet to the destination 192.168.2.150 be handled?

- A. It would be passed to the default router 192.168.178.1 on wlan0.
- B. It would be directly transmitted on the device eth0.
- C. It would be passed to the default router 255.255.255.0 on eth0.
- D. It would be directly transmitted on the device wlan0.
- E. It would be passed to the router 192.168.1.1 on eth0.

Answer: E

QUESTION 104

For accessibility assistance, which of the following programs is an on-screen keyboard?

- A. xkb
- B. atkb
- C. GOK
- D. xOSK

Answer: C

QUESTION 105

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

QUESTION 106

What is the default name of the configuration file for the Xorg X11 server? (Specify the file name only without any path.)

Answer:

xorg.conf

QUESTION 107

How is a display manager started?

- A. It is started by a user using the command startx.
- B. It is started like any other system service by the init system.
- C. It is started by inetd when a remote hosts connects to the X11 port.
- D. It is started automatically when a X11 user logs in to the system console.

Answer: B

QUESTION 108

Which of the following are tasks handled by a display manager like XDM or KDM? (Select TWO.)

- 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: AC

QUESTION 109

What is the purpose of a screen reader?

- A. It reads text displayed on the screen to blind or visually impaired people.
- B. It reads the parameters of the attached monitors and creates an appropriate X11 configuration.
- C. It displays lines and markers to help people use speed reading techniques.
- D. It manages and displays files that contain e-books.

Answer: A

QUESTION 110

Which of the following steps prevents a user from obtaining an interactive login session?

- A. Run the command chsh -s /bin/false with the user name.
- B. Set the UID for the user to 0.
- C. Remove the user from the group staff.
- D. Add the user to /etc/noaccess.
- E. Create a .nologin file in the user's home directory.

Answer: A

QUESTION 111

Which file specifies the user accounts that can NOT submit jobs via at or batch? (Provide the full path and filename.)

Answer:

/etc/at.deny

QUESTION 112

What is true about the file /etc/localtime?

- A. It is a plain text file containing a string such as Europe/Berlin.
- B. It is created and maintained by the NTP service based on the geolocation of the system's IP address.
- C. It is a symlink to /sys/device/clock/ltime and always contains the current local time.
- D. It is either a symlink to or a copy of a timezone information file such as /usr/share/zoneinfo/Europe/Berlin.

Answer: D

QUESTION 113

Which of the following fields are available in both the global /etc/crontab file as well as in user-specific crontab files? (Select TWO.)

- A. Year
- B. Minute
- C. Username
- D. Command

Answer: BD

QUESTION 114

Which of the following commands can remove a user from a group?

- A. grouprm
- B. groupmod
- C. passwd
- D. usergroups
- E. usermod

Answer: E

QUESTION 115

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 116

Which of the following files, when existing, affect the behavior of the Bash shell? (Select TWO.)

- A. ~/.bashconf
- B. ~/.bashrc
- C. ~/.bashdefaults
- D. ~/.bash_etc
- E. ~/.bash_profile

Answer: BE

QUESTION 117

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 118

What is the difference between the commands test -e path and test -f path?

- A. They are equivalent options with the same behaviour.
- B. The -f option tests for a regular file. The -e option tests for an empty file.
- C. Both options check the existence of the path. The -f option also confirms that it is a regular file.
- D. The -f option tests for a regular file. The -e option tests for an executable file.

Answer: C

QUESTION 119

Which of the following SQL queries counts the number of occurrences for each value of the field order_type in the table orders?

- A. SELECT order_type,COUNT(*) FROM orders WHERE order_type=order_type;
- B. SELECT order_type,COUNT(*) FROM orders GROUP BY order_type;
- C. COUNT(SELECT order_type FROM orders);
- D. SELECT COUNT(*) FROM orders ORDER BY order_type;
- E. SELECT AUTO_COUNT FROM orders COUNT order_type;

Answer: B

QUESTION 120

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
```

- A. result: 3 4 5 6 2 1
- B. result: 1 2 3 4 5 6
- C. result: 6 5 4

- D. result: 6 5 4 3 2 1
- E. result: 3 2 1

Answer: A

QUESTION 121

To avoid having to add a machine trust account to a PDC for each Windows client in the domain (using the useradd command), a directive can be used in the Samba configuration file. Select the option below that shows the best solution for this situation.

- A. name resolve order = <correct order>
- B. machine map = /etc/samba/machines
- C. add machine script
- D. logon script
- E. read only = no

Answer: C

QUESTION 122

Which of the following statements are true of the Samba Web Administration Tool? (Select THREE.)

- A. SWAT will completely replace your existing smb.conf file.
- B. By default, SWAT runs with SSL over HTTPS.
- C. No comments exist in a SWAT-generated smb.conf file.
- D. SWAT will not write a parameter to smb.conf if it is set to the default setting.
- E. For security purposes, Microsoft Windows user passwords cannot be changed via the SWAT web interface.

Answer: ACD

QUESTION 123

Which files store printer and driver properties created on the server?

- A. ntprinters.tdb and ntdrivers.tdb
- B. printers.tdb and drivers.tdb
- C. ntforms.tdb and ntprinters.tdb
- D. printers.tdb and spooler.tdb
- E. print_spool.tdb and ntdrivers.tdb

Answer: A

QUESTION 124

The ____ parameter in smb.conf limits the maximum number of jobs allowed in a Samba printer queue at any given moment.

Answer:
MAXPRINTJOBS

QUESTION 125

For Samba to be able to work as a PDC, some modifications are needed in its main configuration file. Select the THREE options below that show the required actions for this task.

- A. The Samba server has to be a logon server. This can be configured by the domain logons directive.

- B. The Samba server needs to have the logon and the account creation scripts, to properly setup the PDC environment.
- C. The Samba server must be a Domain Master Browser. To configure this, the domain master directive must be set to yes.
- D. The time server = yes directive needs to be configured, so Samba will behave as a WINS server and also a Time server.
- E. The security = user directive must be set.

Answer: ACE

QUESTION 126

Which option below shows the correct command line to list the shares exported by the Samba server called NAME?

- A. smbcontrol -L
- B. smbclient -N NAME
- C. smbclient -L NAME
- D. smbmount -L NAME

Answer: C

QUESTION 127

The ____ command lists the domain group mappings. (Provide the full command with arguments.)

Answer:

NETGROUPMAPLIST

QUESTION 128

After configuring PAM and NSS to integrate with OpenLDAP, the SSH server refuses to authenticate users who are only in LDAP. What is the first step you should follow to debug this problem?

- A. Restart the pamd service.
- B. Restart the sshd service.
- C. Restart the nssd service.
- D. Add the Use_LDAP = yes parameter to sshd_config.

Answer: B

QUESTION 129

Which are common procedures to implement Samba with LDAP? (Select TWO.)

- A. Include the Samba schema into OpenLDAP.
- B. Configure Samba password backend to point to OpenLDAP server.
- C. Compile OpenLDAP with support to Samba authentication.
- D. Include OpenLDAP core schema files into Samba configuration directory.

Answer: AB

QUESTION 130

Which attributes must be present when assigning the object class sambaSamAccount to a particular user? (Select TWO.)

- A. displayName
- B. sambaSID
- C. uid
- D. sambaLMPassword
- E. sambaNTPassword

Answer: BC

QUESTION 131

On a Postfix mail server, the command `postconf -m` is run to determine if OpenLDAP is supported. Which storage medium would indicate support for OpenLDAP?

- A. ldap
- B. openldap
- C. x500
- D. dbm
- E. ldaptable

Answer: A

QUESTION 132

After finishing configuring of a Unix client to authenticate with a Microsoft Active Directory server, login attempts are unsuccessful. Which of the following is most likely the cause?

- A. Unix Client support is disabled in the Active Directory configuration.
- B. The PAM library is searching the directory with the default search filter.
- C. The slapd daemon is not running.
- D. The user account in Active Directory has the remote login setting disabled.

Answer: B

QUESTION 133

When configuring LDAP support on a FreeRADIUS server, which `rlm_ldap` parameter is used in the `radiusd.conf` file to enable TLS? (Please enter the parameter only with no values.)

Answer:

`START_TLS`

QUESTION 134

A user is unable to login on a workstation where NSCD was configured BEFORE the `pam_ldap` and `nss_ldap` modules. What should be done to fix this problem?

- A. Restart the NSS server.
- B. Restart the `nscd` daemon.
- C. Restart the PAM server.
- D. `nscd` is incompatible with OpenLDAP and should be disabled.
- E. `nscd` must be started with the `-ldap = yes` option.

Answer: B

QUESTION 135

Which LDAP object class is used in a white pages implementation?

- A. friendlyPerson
- B. organizationalRole
- C. posixAccount
- D. inetOrgPerson
- E. whitepageUser

Answer: D

QUESTION 136

Which of the following are valid LDAP client commands? (Select TWO.)

- A. ldappasswd
- B. ldapbrowser
- C. slapcat
- D. ldapwhoami
- E. slaptest

Answer: AD

QUESTION 137

Which slapd database tool is used to add information to the directory while it is offline? (Enter the command with no path, options or parameters.)

Answer:
SLAPADD

QUESTION 138

Which changetype operation is used to rename the Relative Distinguished Name (RDN) of an LDAP entry?

Answer:
MODRDN

QUESTION 139

Which of the following switches for the ldapsearch command makes sure that search referrals are followed?

- A. -r
- B. -C
- C. -S
- D. -R

Answer: B

QUESTION 140

The ____ command should be used to backup your LDAP data while slapd is NOT running.

Answer:
SLAPCAT

QUESTION 141

The ____ command is used to check the integrity of the slapd.conf file. (Enter only the command, without any options or parameters.)

Answer:

SLAPTEST

QUESTION 142

When two databases are defined in slapd.conf, which of the following commands will provide a full dump of the second database?

- A. slapcat -n 2
- B. slapcat -2
- C. slapcat -database 2
- D. slap_dumpall -name nameofdatabase

Answer: A

QUESTION 143

Which of the following arguments complete the command which will search for cn=ldapadmin OR ou=BR recursively in the directory?

ldapsearch -LLL -h server -s sub -b "o=inc" "____"

- A. ((cn=ldapamin)|(ou=BR))
- B. |(cn=ldapamin) (ou=BR))
- C. ((cn=ldapamin) (ou=BR))
- D. ((cn=ldapamin) (ou=BR)|)
- E. ((cn=ldapamin))|(ou=BR))

Answer: B

QUESTION 144

Which of the following steps should be followed when configuring a slave slapd server? (Select THREE.)

- A. Add a replica directive to slapd.conf.
- B. Do not add a replogfile directive to slapd.conf.
- C. Add an updatedn directive to slapd.conf.
- D. Add a replogfile directive to slapd.conf.
- E. Do not add a replica directive to slapd.conf.

Answer: BCE

QUESTION 145

The ____ daemon provides the capability for a master slapd server to propagate changes to a slave.

Answer:

SLURPD, SLURP

QUESTION 146

Which of the following is the most appropriate method of debugging problems concerning ACLs?

- A. Stop the OpenLDAP server daemon and run the command `slapd -d 128`.
- B. Stop the OpenLDAP server daemon and run the command `slapd -d 32`.
- C. Stop the OpenLDAP server daemon and run the command `slapd -log_acl`.
- D. Stop the OpenLDAP server daemon and run the command `slapd -debug_acl`.

Answer: A

QUESTION 147

After analyzing a `slapd.conf` file, an administrator noted that the `rootdn` and `rootpw` directives are not present. Where is the LDAP administrator account defined?

- A. It is using the default account `admin` with the password `admin`.
- B. The account is defined by an ACL in `slapd.conf`.
- C. It is using the default account `admin` with a null password.
- D. The account is defined in the file `/etc/ldap.secret`.
- E. The account is defined in the file `/etc/ldap.root.conf`.

Answer: B

QUESTION 148

After modifying the indexes for a database in `slapd.conf` - and running `slapindex` - the `slapd` daemon refuses to start when its init script is called. What is the most likely cause of this?

- A. The indexes are not compatible with the init script.
- B. The init script cannot be run after executing `slapindex`, without first signing the indexes with `slapsign`.
- C. The init script has identified one or more invalid indexes.
- D. The init script is starting `slapd` as an ordinary user, and the index files are owned by `root`.

Answer: D

QUESTION 149

Which option should be used to disable anonymous binds to your LDAP directory?

- A. `disallow bind_anon`
- B. `disallow bind_anon_cred`
- C. `disallow bind_simple_unprotected`
- D. `disallow bind_simple`

Answer: A

QUESTION 150

Which `slapd.conf` directive defines the level of logging `slapd` will perform?

Answer:

`LOGLEVEL`

QUESTION 151

Which ONE of the following parameters is used in the database on a slave server to direct clients that want to make changes to the LDAP database to the master server?

- A. `updatedn`
- B. `updateserver`

- C. updateref
- D. updateuri

Answer: C

QUESTION 152

Which port number should be used to test LDAP Security Sockets Layer (SSL) traffic?

Answer:
636

QUESTION 153

In the following output, what does the 1 in the b column indicate?

- A. A process is swapped and waiting.
- B. A process is waiting.
- C. A process is waiting on a parent to check its exit value.
- D. A process is blocked on I/O.

Answer: D

QUESTION 154

When investigating memory usage, what is the most important measurement for capacity planning purposes?

- A. Resident set size (RSS)
- B. Total memory
- C. Virtual memory size (VSZ)
- D. Swap memory usage

Answer: A

QUESTION 155

In the following output, what resource is the program being observed using the most?

- A. CPU
- B. memory
- C. disk I/O
- D. network I/O

Answer: C

QUESTION 156

Which of the following resources would be measured for capacity planning? (Select TWO.)

- A. CPU usage
- B. disk usage
- C. application load time
- D. memory usage

Answer: AD

QUESTION 157

In the following output, what was the maximum number of processes swapped out at any time?

```
procs          memory  swap      io    system          cpu
r b w swpd  free  buff  cache si so bi bo in  cs us  sy id
1 0 0      0 76272 67784 55956 0 0 35 16 107 36 5 2 93
0 0 0      0 24936 67992 55960 0 0 0 3 281 412 18 26 56
8 0 0      0 4040 62872 51080 0 0 0 6 202 247 16 13 71
0 0 0     56 3384 34444 21744 0 0 0 17 205 245 16 16 68
0 0 0  1128 3532 31032 18868 0 27 0 31 151 119 9 11 81
2 0 0  1044 19136 31044 18868 0 0 0 2 106 67 3 4 93
```

- A. 0
- B. 1
- C. 2
- D. 8
- E. 27

Answer: A

QUESTION 158

What operating system tools can be used to collect capacity planning data? (Select TWO.)

- A. fuser
- B. lsof
- C. ps
- D. top

Answer: CD

QUESTION 159

In capacity planning exercises, what tools assist in identifying processes of interest from other processes? (Select TWO.)

- A. acpid
- B. lsof
- C. pstree
- D. w

Answer: BC

QUESTION 160

Which of the following are common Net::LDAP methods? (Select THREE.)

- A. bind
- B. query
- C. error
- D. search
- E. unbind

Answer: ADE

QUESTION 161

The ____ Perl module gives the programmer the ability to work with LDIF files in Perl. (Specify the module in Perl's Module::Submodule... format.)

Answer:

Net::LDAP::LDIF

QUESTION 162

The following excerpt is from a Perl script that reads a LDAP database and writes a LDIF file:

```
$ldap = Net::LDAP->new( 'ldap.server.com' );  
$mesg = $ldap->bind( 'cn=incadmin,o=inc', password => 'secret');  
[YOUR ANSWER GOES HERE]  
Net::LDAP::LDIF->new( \*STDOUT,"w" )->write( $mesg->entries );  
$mesg=$ldap->unbind;
```

Which code snippet contains the correct query?

- A. `$mesg = $ldap->search(base => 'o=inc',);`
- B. `$mesg = $ldap->search(base => 'cn=incadmin,o=inc', scope => 'one', filter => '(objectclass=*)');`
- C. `$mesg = $ldap->search(base => 'o=inc', scope => 'sub', filter => '(objectclass=*)');`
- D. `$mesg = $ldap->search(base => 'o=inc', recursive => 'yes', filter => '(*)');`

Answer: C

QUESTION 163

Which configuration option will enable SSL/TLS encryption when compiling OpenLDAP?

Answer:

--WITH-TLS, WITH-TLS

QUESTION 164

An administrator is adding several LDIF files to the directory with slapadd, and the new entries are not displayed when ldapsearch is used. Assuming that there is no database corruption, what is the most appropriate solution to the problem?

- A. Stop the slapd process and add the files again with slapadd.
- B. Run slaprefresh_all.
- C. Run ldaprefresh_all.
- D. Stop the slapd process, run slapindex, and then correct the entries using slap_vacuum.

Answer: A

QUESTION 165

Which command should be used to optimize LDAP searches?

- A. `ldapsearch -b sub`
- B. `make /var/lib/openldap-data/`
- C. `slapindex`
- D. `slapd -r +20`
- E. `slapd -instances=10 -f`

Answer: C

QUESTION 166

The ____ command, included with OpenLDAP, will generate password hashes suitable for use in slapd.conf. (Enter the command with no options or parameters.)

Answer:

SLAPPASSWD

QUESTION 167

What settings may a user enter when configuring Microsoft Outlook to connect to an LDAP white pages service? (Select THREE.)

- A. Maximum number of entries to return on a successful search
- B. SASL configuration
- C. Search base
- D. Search timeout
- E. Alias dereferencing options

Answer: ACD

QUESTION 168

What does the slapindex tool do?

- A. Displays information about the currently configured indexes
- B. Regenerates indexes defined in slapd.conf
- C. Displays only the DN of every entry in the directory, sorted by container
- D. Defragments the LDAP database files

Answer: B

QUESTION 169

Which command will perform a one-level search from the DN c=INC, for all entries whose organization's name begins with RioDeJaneiro?

- A. ldapsearch -LLL -b "c=INC" "(o=description)" RioDeJaneiro*
- B. ldapsearch -b "c=INC" -f "(o=description,cn=RioDeJaneiro%)"
- C. ldapsearch -LLL -s one -b "c=INC" "(o=RioDeJaneiro*)"
- D. ldapsearch -s sub -b "c=INC" -f "(o=RioDeJaneiro)(description)"

Answer: C

QUESTION 170

Which of the following statements about the ldapsearch command are true? (Select THREE.)

- A. With the -x option, the simple bind authentication method will be used.
- B. It is possible to configure a specific LDAP server for the search with the -h option.
- C. The -b option specifies the database where the LDIF file will be included.
- D. The -L option is useful when for viewing details of LDIF files.
- E. The -Z option requires a successful StartTLS operation in order to continue.

Answer: ABD

QUESTION 171

When importing the contents of one directory into another, the administrator is adding entries with the slapadd command. Which of the following statements are true? (Select THREE.)

- A. slapindex must be run after slapadd, because the slapadd operation will not write to index files.
- B. The slapd process must be stopped before running slapadd.
- C. All slave servers must be listed in the LDIF file for the entries to be replicated.
- D. The changes in the LDIF file will not be replicated with slurpd.
- E. slapstart must be run after creating the entries.

Answer: ABD

QUESTION 172

The administrator wants to add the content from an LDIF file named example.ldif to the LDAP directory. Which of the following commands will perform this task?

- A. slapadd < example.ldif
- B. slapadd example.ldif
- C. slapadd -f example.ldif
- D. slapadd -F example.ldif

Answer: A

QUESTION 173

Which of the following resources would be measured for capacity planning? (Select TWO.)

- A. video driver performance
- B. disk I/O
- C. system boot time
- D. network I/O

Answer: BD

QUESTION 174

In capacity planning exercises, what tools assist in identifying processes of interest from other processes? (Select TWO.)

- A. free
- B. lshal
- C. ps
- D. top

Answer: CD

QUESTION 175

What operating system tools can be used to collect capacity planning data? (Select TWO.)

- A. netstat
- B. route
- C. sar

D. tar

Answer: AC

QUESTION 176

What type of object class is sambaSamAccount?

- A. structural
- B. auxiliary
- C. abstract
- D. extended

Answer: B

QUESTION 177

You are building a server which will authenticate users using the pam_ldap module. In addition to possessing a valid account, you only want to allow logins by users who are members of a certain group. Which parameter in ldap.conf will allow you to specify a filter string to be ANDed with the login attribute when validating a user? (Enter only the parameter, without any options or values.)

Answer:

PAM_FILTER

QUESTION 178

After configuring a Unix workstation for LDAP authentication, you type the command 'id joe' and discover that the user's UID/GID information is still being retrieved from local password files. Which file did you most likely forget to update?

Answer:

/ETC/NSSWITCH.CONF, NSSWITCH.CONF

QUESTION 179

Several mail clients do not support LDAP version 3 binding. If an installation of OpenLDAP rejects version 2 binds by default, what line must be added to slapd.conf to support these clients?

Answer:

ALLOWBIND_V2

QUESTION 180

The ____ command is used to determine the NIS server to which your computer is currently bound.

Answer:

YPWHICH

QUESTION 181

Which of the following correctly describes the method to add Samba users to the LDAP directory?

- A. First make sure that a posix Account entry exists in the Directory for the user you want to add, then use smbpasswd -a to add the Samba user from the command line.
- B. Use the smbpasswd -a command to add the Samba user from the command line. This will add all required information to the LDAP directory.
- C. Create an LDIF file containing all required information, then use ldapadd to add the information to the LDAP directory.

- D. Create an LDIF file containing all required information, then use ldapmodd to add the Samba related information to an existing posixAccount entry.

Answer: A

QUESTION 182

In order to migrate usernames and passwords from a NIS server, the passwd and shadow files were used with a custom script to import the data to OpenLDAP. After properly creating a test workstation to authenticate against LDAP, the number of lines outputted from getent passwd are different from the number on the NIS client workstation. Which one of the following statements can be true?

- A. The NIS database is not synchronized with passwd and shadow.
- B. The OpenLDAP server creates some additional users that are shown in getent.
- C. The NIS clients are not receiving the correct files from the server.
- D. The NIS clients are confused since OpenLDAP and NIS use the same port to communicate.
- E. The OpenLDAP client is querying the NIS server on the wrong TCP/IP port.

Answer: A

QUESTION 183

When using the auth_ldap module with Apache 1.3, the log displays several messages containing "protocol error". Which of the following steps should be followed to fix the problem?

- A. AuthLDAPStartTLS must be set to on.
- B. LDAPv2 should be disallowed.
- C. LDAPv3 should be allowed.
- D. The Apache module must be turned on in slapd.conf.
- E. The apache_auth.schema must be included in slapd.conf.

Answer: A

QUESTION 184

In order for pam_ldap to be capable of changing a user's password in Active Directory, the pam_password parameter must be set to ____.

- A. ad
- B. win
- C. active_directory
- D. ldap

Answer: A

QUESTION 185

After an administrator added comments to each line of the ACLs in slapd.conf, the ACLs ceased to function properly. What is the most likely cause of this?

- A. Comments cannot be used anywhere in an ACL block.
- B. The comments were not added using the semi-colon (;) character.
- C. Comments cannot be used in the slapd.conf file.
- D. The comments were not added using the pound (#) character.

Answer: A

QUESTION 186

OpenLDAP 2 requires an equality index on the objectClass attribute. What line in slapd.conf will accomplish this? (Enter the entire line, separating fields with a single space.)

Answer:

INDEXOBJECTCLASSEQ

QUESTION 187

Which of the following ACL lines allows access to all hosts that have an IP address that starts with 192.168.1?

- A. by peername=192.168.1.*
- B. by peername=192.168.1.
- C. by ipaddress=192.168.1.*
- D. by ipaddress=192.168.1.

Answer: A

QUESTION 188

Which one of the following pieces of information is not present in the slurpd replication log file?

- A. A timestamp of when the modification took place.
- B. The address of the remote LDAP slave server.
- C. The name of the user who initiated the modification.
- D. A timestamp of when the change has taken place on the slave.

Answer: D

QUESTION 189

Which of the following procedures will test the TLS configuration of your LDAP server?

- A. Run the ldapsearch command with the -ZZ option, while watching network traffic with a packet analyzer.
- B. Run the ldapsearch command with the -x option, while watching network traffic with a packet analyzer.
- C. Run the slapcat command, while watching network traffic with a packet analyzer.
- D. Verify the TLS negotiation process in the /var/log/ldap_auth.log file.
- E. Verify the TLS negotiation process in the /var/log/auth.log file.

Answer: A

QUESTION 190

Specifying TLSVerifyClient = ____ in slapd.conf will instruct slapd to not ask the client for a certificate.

Answer:

NEVER

QUESTION 191

OpenLDAP is capable of using the ____ framework to provide integrity and confidentiality protections.

Answer:

TLS, SASL, SSL

QUESTION 192

What does cachesize 1000000 represent in the slapd.conf file?

- A. The number of entries to be cached.
- B. The size of the cache in Bytes.
- C. The size of the cache in bits.
- D. The minimum cache size in Bytes.
- E. The maximum cache size in Bytes.

Answer: A

QUESTION 193

If no ACL lines are included in slapd.conf, what is the default behavior of slapd?

- A. Allow anyone to read any entry.
- B. Deny anyone from reading any entries.
- C. Only certain attributes such as userPassword are protected from read access.
- D. Access to the directory is only allowed from the local machine.

Answer: A

QUESTION 194

The ____ command is used to create an index of the OpenLDAP database. (Please specify the command with no path, options or parameters.)

Answer:

SLAPINDEX

QUESTION 195

It is found that changes made to an LDAP directory are no longer being replicated to the slave server at 192.168.0.3. Tests prove that the slave server is listening on port 389 and changes are being recorded properly to the replication log file. In which file would you find the replication errors?

Answer:

/VAR/LIB/LDAP/192.168.0.3:389.REJ,LDAP/192.168.0.3:389.REJ,192.168.0.3:389.REJ

QUESTION 196

It's important to issue the Start TLS operation at the beginning of a session: ____.

- A. To compress any data sent over the network and improve performance.
- B. To prevent usernames and passwords from being sent in plain text.
- C. To ensure backward compatibility with older clients.
- D. To prevent clients from binding to the server anonymously.

Answer: B

QUESTION 197

You're writing a simple Perl script to query an LDAP directory using the Net::LDAP module. Which method would you use to determine if the start_tls() operation was successful?

- A. err()
- B. code()
- C. result()
- D. msg()

Answer: B

QUESTION 198

LDAP is considered "lightweight" in comparison to X.500 because: _____. (Select TWO.)

- A. It has a smaller set of operations.
- B. The client and server communicate using the TCP/IP protocol stack.
- C. The client and server communicate using the OSI protocol stack.
- D. LDAP supports Access Control Lists and X.500 does not.

Answer: AB

QUESTION 199

Which one of the following is true about single sign-on?

- A. Single sign-on is different than identity consolidation.
- B. Single sign-on requires sending the same credentials to several services.
- C. Single sign-on requires that the credentials for different services are distinct.
- D. Single sign-on requires a smartcard.

Answer: A

QUESTION 200

What schema files are required to make LDAP compatible to NIS? (Select TWO.)

- A. misc.schema
- B. cosine.schema
- C. nis.schema
- D. inetorgperson.schema

Answer: BC

QUESTION 201

Which of the following are valid choices for the LDAP database backend? (Select THREE.)

- A. file
- B. config
- C. passwd
- D. ldbm
- E. shell

Answer: BCE

QUESTION 202

When creating a multivalued RDN, what character is used to separate the two attribute values used to form the RDN? (Enter only the character, as it would appear in an LDIF entry.)

Answer:

+

QUESTION 203

Which ONE of the following is a correct example of an RDN?

- A. JohnDoe
- B. cn=John Doe
- C. cn=JohnDoe,ou=people,o=example
- D. cn=John Doe, ou=people, o=example

Answer: B

QUESTION 204

Which schema file is required by OpenLDAP?

- A. inetorgperson.schema
- B. core.schema
- C. openldap.schema
- D. cosine.schema
- E. misc.schema

Answer: B

QUESTION 205

An administrator has just configured an OpenVPN client. Upon starting the service, the following message is displayed:

TLS Error: TLS key negotiation failed to occur within 60 seconds

Which of the following statements is true?

- A. The client was unable to establish a network connection with the server.
- B. The client was able to establish a network connection with the server, however TLS key negotiation failed, resulting in a fallback to SSL.
- C. The client was able to establish a network connection with the server, however TLS and SSL security are not enabled.
- D. The client was able to establish a network connection with the server, however TLS key negotiation took longer than 60 seconds, indicating that there may be a problem with network performance.

Answer: A

QUESTION 206

SELinux has just been installed on a Linux system and the administrator wants to use SELinux in permissive mode in order to audit the various services on the system. What command will switch SELinux into permissive mode?

- A. setenforce 0
- B. /etc/init.d/selinux stop
- C. selinux passive
- D. /etc/init.d/selinux startpassive

Answer: A

QUESTION 207

Which of the following export options, when specified in /etc/exports, will tell the server to use the NFSv4 Pseudofilesystem?

- A. fsid=2
- B. fsid=0
- C. fsid=3
- D. fsid=1

Answer: B

QUESTION 208

Which of the following are common techniques for securing a sendmail server? (Select THREE.)

- A. Maintain user accounts in an LDAP directory.
- B. Enable TLS.
- C. Disable VRFY.
- D. Run sendmail in a chroot'd environment.
- E. Disable USRLKUP.

Answer: BCD

QUESTION 209

What does ntop use for data collection?

- A. Network packets
- B. Log files
- C. Frame relay
- D. SNMP

Answer: A

QUESTION 210

An administrator has successfully configured a cryptographic volume for dmccrypt, and has added the following line to /etc/fstab:

```
/dev/mapper/cryptvol /media/crypt auto defaults 0 0
```

Upon booting the system, the error message "mount: special device /dev/mapper/cryptvol does not exist" is displayed. What configuration file has the administrator forgotten to edit? (Provide the full path and filename.)

Answer:

/etc/crypttab

QUESTION 211

Which of the following methods can be used to deactivate a rule in Snort? (Select TWO.)

- A. Place a # in front of the rule and restart snort.
- B. Write a pass rule in local.rules and restart snort with the o option.
- C. Delete the rule and snort will automatically reread its rules files within five minutes.
- D. Add the rule to /etc/snort/rules.deactivated and it will take effect immediately.

Answer: AB

QUESTION 212

The system administrator is keeping local configuration file changes in RCS. What command will commit the file to RCS revision control AND keep a local, unlocked copy of the latest version of the file?

- A. ci file
- B. rcs commit file
- C. rcs o file
- D. ci u file

Answer: D

QUESTION 213

There is a configuration file being managed by RCS. Based on timestamps, it appears that someone has modified the file without checking it into RCS. What command can be used to compare the configuration file with the latest committed version? (Specify the command only, no path or argument information.)

Answer:
rcsdiff

QUESTION 214

What is an SO rule in the context of Snort?

- A. A loadable snort module.
- B. A rule which can be written in the Perl programming language.
- C. A simple object.
- D. A snort overflow.

Answer: A

QUESTION 215

Which of the following are valid ntop deployment scenarios? (Select THREE.)

- A. Public Site
- B. Switched Gateway
- C. Simple Host
- D. Border Gateway
- E. Mirror Line

Answer: CDE

QUESTION 216

In the Puppet centralized configuration management tool, a manifest is: ____.

- A. a list of all target configurations
- B. a configuration document that describes the target configuration and the steps required to achieve it
- C. a list of all files related to a configuration target
- D. a list of the important services on a target configuration

Answer: B

QUESTION 217

What is the syntax error in the following simple Puppet configuration file?

```
class test_class {  
  file { ["/tmp/test.txt"]:  
    mode => 600,  
    owner => root,  
    group => root  
  }  
}  
# Define the node  
node testclient {  
  isa test_class  
}
```

- A. Comments begin with // character and not a #.
- B. The colon (:) after /tmp/test.txt should be a semicolon (;).
- C. class, node and file sections require a semicolon (;) at the end of their definitions.
- D. isa should be include.

Answer: D

QUESTION 218

Which of the following are valid Nagios objects? (Select THREE.)

- A. Contacts
- B. Commands
- C. Host Groups
- D. Notification Groups
- E. Programs

Answer: ABC

QUESTION 219

Which of the following are common techniques for securing Nagios? (Select THREE.)

- A. Require authentication for access to the CGI scripts.
- B. Run Nagios in a chroot jail.
- C. Compile Nagios with the enabletls option.
- D. Do not run as the root user.
- E. Disable external commands.

Answer: ADE

QUESTION 220

Which of the following is not an iptables rule set?

- A. chain
- B. mangle
- C. filter
- D. nat

Answer: A

QUESTION 221

Which of the following are builtin chains for the iptables nat table? (Select THREE.)

- A. OUTPUT
- B. INPUT
- C. PROCESSING
- D. POSTROUTING
- E. PREROUTING

Answer: ADE

QUESTION 222

Which syslog configuration line will send out logged messages to a remote syslog server?

- A. *.* host:remotehost
- B. *.* remote remotehost
- C. *.* @remotehost
- D. *.* host=remotehost

Answer: C

QUESTION 223

Which option is required to syslogd in order for it to accept remote log messages?

- A. s
- B. r
- C. remote
- D. l

Answer: B

QUESTION 224

What does the following iptables rule accomplish:

```
iptables A INPUT s 208.77.188.166 j DROP
```

- A. Forwards all incoming traffic to the host 208.77.188.166.
- B. Accepts all traffic from 208.77.188.166.
- C. Nothing, there is a syntax error.
- D. Drops all traffic from 208.77.188.166.

Answer: D

QUESTION 225

What does the following iptables rule accomplish:

```
iptables A INPUT s 208.77.188.166 d 10.142.232.1 p tcp dport 22 j ACCEPT
```

- A. Accepts traffic on port 22 only from the hosts 208.77.188.166 and 10.142.232.1.
- B. Forwards all requests from the host 10.142.232.1 on port 22 the internal host 208.77.188.166
- C. Forwards all requests from the host 208.77.188.166 on port 22 the internal host 10.142.232.1

D. Drops traffic on port 22 only from the hosts 208.77.188.166 and 10.142.232.1.

Answer: C

QUESTION 226

What does the following iptables rule accomplish:

```
iptables A INPUT d 10.142.232.1 p tcp dport 20:21 j ACCEPT
```

- A. Forwards all traffic not on port 20 or 21 to the host 10.142.232.1.
- B. Drops all traffic coming from the host 10.142.232.1 destined for port 20 or 21.
- C. Accepts all traffic from the host 10.142.232.1 destined for port 20 or 21.
- D. Forwards all traffic on port 20 and 21 to the host 10.142.232.1.

Answer: D

QUESTION 227

What does the following iptables rule accomplish:

```
iptables A INPUT s !127.0.0.0/8 p tcp dport 111 j DROP
```

- A. Drops all packets from the LAN destined for port 111.
- B. Drops all packets originating from the local machine unless they are destined for port 111.
- C. Drops all packets destined for port 111 which originate from the local machine.
- D. Drops all packets destined for port 111 unless they are from the local machine.

Answer: D

QUESTION 228

The local system administrator has created a configuration entry for apache version 2 that isn't working. What is wrong with the following configuration?

```
<Location /members>
AuthName Members
AuthType Basic
AuthUserFile /www/passwd
</Location>
```

- A. The directive require validuser is missing.
- B. Basic Authentication has been removed from Apache 2.x.
- C. The format of the password file is not specified.
- D. The AuthUserFile must be in the apache configuration directory.

Answer: A

QUESTION 229

In apache configuration which directives are used to restrict access based on host/domain name and IP address?

- A. restrict and allow
- B. order, allow from and deny from
- C. deny and accept
- D. allow IP, deny IP, allow DOMAIN and deny DOMAIN
- E. order, deny and accept

Answer: B

QUESTION 230

The legacy program for sending files to the printer queues from the command line is which of the following?

- A. lpd
- B. lpr
- C. lpq
- D. lpp

Answer: B

QUESTION 231

Which of the following statements would create a default route using a gateway of 192.168.1.1?

- 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

Answer: D

QUESTION 232

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

QUESTION 233

Which of the following configuration files does sudo read when determining if a user is permitted to run applications with root privileges?

- A. /etc/groups
- B. /etc/passwd
- C. /etc/sudoers
- D. /etc/sudo.conf

Answer: C

QUESTION 234

Which of the following commands will set the local machine's timezone to UTC?

- A. cat UTC > /etc/timezone
- B. ln -s /usr/share/zoneinfo/UTC /etc/localtime

- C. date --timezone=UTC
- D. mv /usr/timezone/UTC /etc

Answer: B

QUESTION 235

A user was not given permission to use the CRON scheduling system. What file needs to be modified to provide that access? (Please specify the full path to the file).

Answer:
`/etc/cron.allow`

QUESTION 236

Which of the following commands should be added to `/etc/bash_profile` to change the language of messages from an internationalised program to Portuguese (pt)? (Select TWO.)

- A. export LANGUAGE="pt"
- B. export MESSAGE="pt"
- C. export LANG="pt"
- D. export LC_MESSAGES="pt"
- E. export ALL_MESSAGES="pt"

Answer: CD

QUESTION 237

Which of the following is pool.ntp.org?

- A. A deprecated feature for maintaining system time in the Linux kernel.
- B. A website which provides binary and source packages for the OpenNTPD project.
- C. A virtual cluster of various timeservers.
- D. A community website used to discuss the localization of Linux.

Answer: C

QUESTION 238

Which of the following directories in a user's home contains configuration files and key rings for GPG?

- A. `~/gpg.d/`
- B. `~/.gpg/`
- C. `~/.gnupg/`
- D. `~/gnupg/`
- E. `~/.gpg.d/`

Answer: C

QUESTION 239

Which of the following lines from `/etc/X11/xorg.conf` indicates that fonts can be found on a font server?

- A. FontPath = server
- B. Fonts "unix:/7100"

- C. FontPath "unix:/7100"
- D. Fonts = server
- E. Fontserver = "servername"

Answer: C

QUESTION 240

The files in the /etc/skel directory are used by the: ____.

- A. pwconv command
- B. pwunconv command
- C. useradd command
- D. passwd command

Answer: C

QUESTION 241

Which of the following SQL statements will select the fields name 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;

Answer: C

QUESTION 242

Which of the following configuration files would an administrator edit to change default options for outbound ssh sessions?

- 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 243

Which of the following bash option 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 244

An ISP has given an administrator 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 are left? (Please enter the number and not a word.)

Answer:

61

QUESTION 245

All of the following are Mail Transport Agents EXCEPT: ____.

- A. exim
- B. postfix
- C. sendmail
- D. qmail
- E. mail

Answer: E

QUESTION 246

An administrator is configuring a secured webserver, however connecting to https://127.0.0.1 is not working. The administrator runs netstat -ntl, which returns the following output:

```
tcp 0 0 0.0.0.0:80 0.0.0.0:* LISTEN
```

What port should be listening before a successful connection is possible? (Provide only the numerical value of the port).

Answer:

443

QUESTION 247

Which protocol uses two (2) TCP/IP ports one of them being port 20 for data transfer? (Please do not enter duplicate answers in this field.)

Answer:

FTP

QUESTION 248

An administrator can run the ____ command to see active network and UNIX domain socket connections. (Please specify the command with no options or parameters.)

Answer:

```
/BIN/NETSTAT  
NETSTAT
```

QUESTION 249

An administrator needs to sync the hardware clock, which is on GMT, with the system clock, which the administrator just updated with NTP. To do this, complete the following command: ____ -u --systohc

Answer:

```
/SBIN/HWCLOCK  
/USR/SBIN/HWCLOCK  
HWCLOCK
```

QUESTION 250

Which of the following programs uses the hosts.allow file to perform its main task of checking for access control restrictions to system services?

- A. tcpd
- B. inetd
- C. fingerd
- D. mountd
- E. xinetd

Answer: A

QUESTION 251

An administrator has added the following line to /etc/inittab in order to disable the ability to reboot a Debian system by pressing the Control + Alt + Delete keys simultaneously:

```
ca:12345:____:/bin/echo "Rebooting disabled"
```

Please provide the missing string.

Answer:

CTRLALTD

QUESTION 252

What word will complete an if statement in bash such as the following:

if [-x "\$file"]; then echo \$file _____. (Please provide the missing word only.)

Answer:

FI

QUESTION 253

An administrator decides to use xinetd instead of inetd. Now, the administrator needs to transfer information from /etc/inetd.conf to another file. What file must be created or edited? (Please specify the full path.)

Answer:

/etc/xinetd.conf

QUESTION 254

In the following command and its output, echo \$\$ 12942 which of the following is 12942?

- A. The process ID of the echo command.
- B. The process ID of the current shell.
- C. The process ID of the last command executed.
- D. The process ID of the last backgrounded command.

Answer: B

QUESTION 255

Which of the following commands will print the exit value of the previous command to the screen in bash?

- A. echo \$?
- B. echo \$#
- C. echo \$exit
- D. echo \$status

E. echo \$&}

Answer: A

QUESTION 256

Which of the following statements about crontab are true? (Select TWO).

- A. Every user may have their own crontab.
- B. Changing a crontab requires a reload/restart of the cron daemon.
- 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: AC

QUESTION 257

An administrator wants to determine the geometry of a particular window in X, so the administrator issues the ____ -metric command and then clicks on the window. (Please enter only a single command and do not enter duplicate answers in this field.)

Answer:

/USR/BIN/XWININFO
XWININFO

QUESTION 258

The command ____ prints a list of email that is currently in the queue waiting for delivery. (Please specify the command with or without path or arguments.)

Answer:

/USR/BIN/MAILQ
MAILQ

QUESTION 259

To slave the NTP daemon to an external source, an administrator needs to modify the ____ variable in the /etc/ntp.conf file.

Answer:

SERVER

QUESTION 260

Which of the following commands is used to deactivate a network interface?

- A. ifdown
- B. ipdown
- C. net
- D. netdown

Answer: A

QUESTION 261

Which of the following looks like a correct entry in the /etc/hosts file?

- A. localhost 127.0.0.1 localhost.localdomain

- B. localhost.localdomain localhost 127.0.0.1
- C. localhost localhost.localdomain 127.0.0.1
- D. 127.0.0.1 localhost.localdomain localhost
- E. localhost.localdomain 127.0.0.1 localhost

Answer: D

QUESTION 262

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 263

Which of the following find commands will print out a list of suid root files in /usr?

- A. find /usr -uid 0 -perm +4000
- B. 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

Answer: A

QUESTION 264

Which of the following commands will provide locale-specific information about a system and its environment?

- A. loconfig
- B. getlocale
- C. locale
- D. tzconfig
- E. tzselect

Answer: C

QUESTION 265

Which of the following should the permission settings be for /etc/passwd and /etc/shadow?

- A. /etc/passwd: -rw-r--r-- /etc/shadow: -r-----
- B. /etc/passwd: -r----- /etc/shadow: -rw-r--r--
- C. /etc/passwd: -rw-r--r-- /etc/shadow: -rw-r--r--
- D. /etc/passwd: -r----- /etc/shadow: -r-----}

Answer: A

QUESTION 266

Which of the following configuration files should be modified to set default shell variables 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 267

By default, which directories contents will be copied to a new user's home directory when the account is created, passing the -m option to the useradd command?

Answer:

/ETC/SKEL
/ETC/SKEL/

QUESTION 268

Suppose that the command netstat -a hangs for a long time without producing output. An administrator might suspect: ____.

- 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 has crashed

Answer: B

QUESTION 269

Please specify the directory containing the configuration files for the CUPS printing system. (Provide the full path to the directory).

Answer:

/ETC/CUPS
/ETC/CUPS/

QUESTION 270

Which of the following statements are true regarding the below syslog.conf configuration directive? (Select THREE.)

```
*.err;kern.notice;auth.notice /dev/console
```

- A. Severity crit messages from all facilities will be directed to /dev/console
- B. Severity notice messages from the auth facility will be directed to /dev/console
- C. Severity notice messages from the kern facility will be directed to /dev/console
- D. Severity err messages from the mail facility will be directed /dev/console
- E. Severity notice messages from all facilities will be directed to /dev/console

Answer: BCD

QUESTION 271

On a system running the K Display Manager, when is the /etc/kde4/kdm/Xreset script automatically executed?

- A. When KDM starts
- B. When a user's X session exists
- C. When KDM crashes
- D. When X is restarted
- E. When X crashes

Answer: B

QUESTION 272

Which of the following is the BEST way to temporarily suspend a user's ability to interactively login?

- A. Changing the user's UID.
- B. Changing the user's password.
- C. Changing the user's shell to /bin/false.
- D. Removing the user's entry in /etc/passwd.
- E. Placing the command logout in the user's profile.

Answer: C

QUESTION 273

To test a shell script called myscript, the environment variable FOOBAR must be removed temporarily. How can this be done?

- A. unset -v FOOBAR
- B. set -a FOOBAR=""
- C. env -u FOOBAR myscript
- D. env -i FOOBAR myscript

Answer: C

QUESTION 274

Which of the following commands is used to display user resource limits?

- A. uname
- B. limit -a
- C. usrlmt
- D. ulimit

Answer: D

QUESTION 275

Which of the following lines would an administrator find in the file /etc/nsswitch.conf?

- A. order hosts,bind
- B. 192.168.168.4 dns-server
- C. hosts: files dns
- D. domain mycompany.com

Answer: C

QUESTION 276

Which of the following commands can an administrator use to change a user's password expiry information? (Select THREE.)

- A. usermod
- B. passwd
- C. chattr
- D. chage
- E. chsh

Answer: ABD

QUESTION 277

Which of the following statements is true regarding the below /etc/resolv.conf file?

```
search example.com 127.0.0.1 208.77.188.166
```

- A. There is a syntax error.
- B. If DNS queries to the localhost fail, the server 208.77.188.166 will be queried.
- C. example.com will be appended to all host lookups.
- D. The DNS servers at 127.0.0.1 and 208.77.188.166 will be queried in a round robin fashion.
- E. The DNS server with the shortest ping time will be queried first. If the lookup fails, the second server will be queried.

Answer: A

QUESTION 278

Which of the following crontab entries could be used to set the system time at regular intervals?

- A. 1 0 * * * date \$d \$t \$24
- B. 1 0 * * * settime \$d \$t \$24
- C. 1 0 * * * date<ntp1.digex.net
- D. 1 0 * * * /usr/sbin/runcron date <ntp1.digex.net
- E. 1 0 * * * /usr/sbin/ntpdate ntp1.digex.net > /dev/null 2>&1

Answer: E

QUESTION 279

Which of the following outputs will the below command produce?

```
seq 1 5 20
```

- A. 1
- B. 100
- C. 101
- D. 20
- E. 5

Answer: A

QUESTION 280

When using ssh, which of the following can an administrator do to recover a lost passphrase for a DSA or RSA authentication key?

- A. Run the ssh-keygen command.
- B. Run the ssh --recover command.
- C. A lost passphrase cannot be recovered.
- D. Decrypt the authentication key with gpg.
- E. Decrypt the authentication key with ssh --decrypt.

Answer: C

QUESTION 281

Which of the following describes the Linux ping packet or datagram?

- A. IP packet with a packet type
- B. ICMP packet with a message type
- C. ICMP packet with a payload
- D. UDP datagram with a protocol type
- E. UDP datagram with a payload

Answer: B

QUESTION 282

Which of the following entries can an administrator add to syslog.conf file to have all syslog messages generated by the administrator system go file to have all syslog messages generated by the administrator system go to virtual console 12?

- A. *.* /dev/tty12
- B. /var/log/messages | /dev/tty12
- C. | /dev/tty12
- D. syslog tty12
- E. mail.* /dev/tty12

Answer: A

QUESTION 283

Which file specifies the user accounts can NOT submit jobs via at or batch? (Provide the full path and filename.)

Answer:

/ETC/AT.DENY

QUESTION 284

The ____ command is used to add a group to the system. (Please enter only a single command and do not enter duplicate answers in this field.)

Answer:

/USR/SBIN/GROUPADD
GROUPADD

QUESTION 285

An administrator has just set up the X Display Manager as the default display manager. Which of

the following files should be edited to change the default background for it?

- A. /etc/X11/xdm/Xsetup
- B. /etc/X11/prefdm
- C. /etc/X11/xorg.conf
- D. /etc/X11/xdm.conf

Answer: A

QUESTION 286

What word is missing from the following SQL statement?

update tablename ____ fieldname='value' where id=909;

Answer:

SET

QUESTION 287

What is the command to delete the default gateway from the system IP routing table? (Please specify the complete command with arguments, please no duplicate answers in this field.)

Answer:

/sbin/iproute del 0.0.0.0
/sbin/iproute del default
/sbin/route del 0.0.0.0
/sbin/route del default
iproute del 0.0.0.0
iproute del default
route del 0.0.0.0
route del default

QUESTION 288

An administrator is running an email server configured with the default settings. In which directory will the administrator commonly find the delivered mail for the user foo?

- A. /var/spool/mail
- B. /home/foo/mail
- C. /var/mail/spool
- D. /var/users/mail

Answer: A

QUESTION 289

For accessibility assistance, which of the following programs is an on-screen keyboard?

- A. xkb
- B. atkb
- C. GOK
- D. xOSK

Answer: C

QUESTION 290

What word is missing from the following SQL statement?

`select count(*) ____ tablename;`

Answer:

`FROM`

QUESTION 291

Which option, when passed to the `gpg` command, will enter an interactive menu enabling the user to perform key management related tasks? (Provide only one option.)

Answer:

`EDIT-KEY`
`--EDIT-KEY`

QUESTION 292

All of the following are contained in the locale setting of the operating system EXCEPT: ____.

- A. currency symbol
- B. language
- C. timezone
- D. thousands separator

Answer: C

QUESTION 293

An administrator discovers a pending job for the `at` command. Which of the following does the administrator need to use to remove it?

- A. `atrm`
- B. `atq -r`
- C. `at -e`
- D. `rmat`

Answer: A

QUESTION 294

A French user has installed the French language pack, but currencies are still being displayed with a leading '\$' sign in spreadsheets. Which of the following must be done to fix this?

- A. Alter the locale.
- B. Set the timezone correctly.
- C. Edit `/etc/currency`.
- D. Reinstall the French language pack.

Answer: A

QUESTION 295

An administrator has a user whose account needs to be disabled but not removed. Which of the following should the administrator do?

- A. Edit `/etc/gshadow` and just remove the user name.
- B. Edit `/etc/passwd` and change all numbers to 0.
- C. Edit `/etc/shadow` and remove the last field.

- D. Edit /etc/passwd and insert an * after the first : .
- E. Edit /etc/group file and put a # sign in front of the user name.

Answer: D

QUESTION 296

An administrator suspects that a gateway machine on their network has failed; the administrator is unsure which machine is the problem. Which of the following commands will help locate the problem machine?

- A. ps
- B. netstat
- C. nslookup
- D. ifconfig
- E. traceroute

Answer: E

QUESTION 297

While performing a security audit, an administrator discovers that a machine is accepting connections on TCP port 184, but it is not obvious which process has the port open. Which of the following programs should the administrator use to find out?

- A. traceroute
- B. strace
- C. debug
- D. nessus
- E. lsof

Answer: E

QUESTION 298

An administrator wants to temporarily prevent users from logging in. Please complete the following command: `touch /etc/_____`.

Answer:
NOLOGIN

QUESTION 299

An administrator needs to pause the CUPS printer Laserjet4, and wants to cancel all print jobs with a message, "hello". Which of the following commands will do this?

- A. `cupsreject -c -r hello Laserjet4`
- B. `cupsreject -p -m hello Laserjet4`
- C. `cupsdisable -c -r hello Laserjet4`
- D. `cupsdisable -p -m hello Laserjet4`

Answer: C

QUESTION 300

To prevent a specific user from scheduling tasks with `at`, which of the following should the administrator do?

- A. Add the specific user to /etc/at.allow file.
- B. Add the specific user to [deny] section in the /etc/atd.conf file.
- C. Add the specific user to /etc/at.deny file.
- D. Add the specific user to nojobs group.
- E. Run the following: atd --deny [user].

Answer: C

QUESTION 301

Which of the following commands would an administrator use to create an OpenSSH authentication key?

- A. sshd
- B. ssh-agent
- C. ssh-keygen
- D. ssh-add

Answer: C

QUESTION 302

An administrator is logged in as root. What command should the administrator run to find out what groups user bruno belongs to?

Answer:

```
/USR/BIN/GROUPSBRUNO
/USR/BIN/IDBRUNO
GROUPSBRUNO
IDBRUNO
```

QUESTION 303

Which of the following can the chage command **NOT** change?

- A. The number of days since January 1, 1970 on which the user account will no longer be accessible.
- B. The number of days since January 1, 1970 when the password can change.
- C. The number of days since January 1st, 1970 when the password was last changed.
- D. The maximum number of days during which a password is valid.
- E. The number of days of inactivity after a password has expired before the account is locked.

Answer: B

QUESTION 304

After configuring printing on a Linux server, the administrator sends a test file to one of the printers and it fails to print. What command can be used to print the status of the printer's queue? (Provide only the command, without any options or parameters).

Answer:

```
/USR/BIN/LPQ
LPQ
```

QUESTION 305

Which of the following benefits does an alias provide?

- A. It provides faster lookups for commands.
- B. It prevents having to type long commands
- C. It hides from others the command that is being run.
- D. It creates a local copy of a file from another directory.

Answer: B

QUESTION 306

In the smb.conf file, what does the %S variable mean?

- A. Session Username
- B. The name of the Samba Server.
- C. The name of the service after the connection has been established.
- D. The local IP address to which the client connected.

Answer: C

QUESTION 307

Which command will launch smbd in daemon mode, overwriting existing log files, and listen on port 139?

- A. /usr/sbin/smbd -D -o -P 139
- B. /usr/sbin/smbd -D -f /var/log/samba/smbd.log -P 139
- C. /usr/sbin/smbd -D -f /var/log/samba/
- D. /usr/sbin/smbd -D -o

Answer: D

QUESTION 308

Which parameter should be set in smb.conf to enable off-line caching of data files.

- A. offline policy = documents
- B. offline = documents
- C. csc policy = documents
- D. vfs objects = offline

Answer: C

QUESTION 309

What is the most suitable procedure for naming a Samba 3 server with non-English characters?

- A. Specify the character set with the unix charset parameter in smb.conf.
- B. Start the Samba daemons with an appropriate locale.
- C. Specify the character set with the coding system parameter in smb.conf
- D. Encode non-English characters using BASE64.
- E. Escape non-English characters with octal code numbers.

Answer: A

QUESTION 310

Which smb.conf setting will load the audit and recycle VFS modules?

- A. vfs = audit recycle
- B. vfs modules = audit,recycle
- C. vfs modules = audit recycle
- D. vfs objects = audit recycle

Answer: D

QUESTION 311

What does the following command below do? smbclient //server/Reports -U func

- A. The Samba server administrator is providing access permissions to the Reports share to user func.
- B. User func is downloading the content located in the Reports share of Samba server.
- C. Computer func is trying to make a connection with a Samba server share, and the command will prompt for the username and password.
- D. User func is trying to connect to the Reports share in the Samba server.

Answer: D

QUESTION 312

The log level parameter in smb.conf should normally not be set higher than 2 because:

- A. Credentials supplied by the user are logged, which poses a security risk.
- B. The increased verbosity has a negative impact on network bandwidth.
- C. Most Samba administrators cannot understand the information presented at higher log levels.
- D. The server flushes the log file after each operation, which affects overall performance.

Answer: D

QUESTION 313

The command smbldap-useradd _____ will add the domain FOO as a trusted domain.
(Specify the options and arguments ONLY.)

Answer: -IFOO

QUESTION 314

Which is the correct procedure to remove a machine account from a Samba PDC? Choose the TWO correct procedures:

- A. First of all, the account must be removed from Samba database, using the smbpasswd command.
- B. First of all, the account must be removed from Linux accounts database, using the userdel command.
- C. The second step is remove the account from Samba database, using the smbpasswd command.
- D. The second step is remove the account from the Linux accounts database, using the userdel command.
- E. The second step is restart the Samba daemon.

Answer: AD

QUESTION 315

When _____-level security is used, the client will be able to mount multiple shares without supplying further credentials after the first successful authentication.

Answer: USER

QUESTION 316

The _____ command can be used to validate and backup a TDB file.

Answer: TDBBACKUP

QUESTION 317

Which of the following ports are used by smbld? (Choose THREE correct answers)

- A. 135/TCP
- B. 137/UDP
- C. 138/UDP
- D. 139/TCP
- E. 445/TCP

Answer: ADE

QUESTION 318

Which files will be stored inside the directory specified below? # smbld -b |grep LOCKDIR LOCKDIR: /var/cache/samba

- A. Configuration files
- B. TDB files
- C. WINS name cache files
- D. Samba print spool files

Answer: B

QUESTION 319

The text below is an excerpt of the Samba main configuration file. Select the THREE correct statements:

```
[global] logon script = logon.cmd [netlogon] path =  
/var/lib/samba/netlogon read only = yes write list = root
```

- A. The logon script has to be in ASCII Linux format.
- B. The file excerpt shows that Samba will instruct the client to execute a logon script in order to prepare the user's environment.
- C. The logon script directive is always relative to the [netlogon] share.
- D. Any user can modify the logon.cmd script.
- E. Samba doesn't provide the logon.cmd script contents.

Answer: BCE

QUESTION 320

Which command would be used to search for all available workgroups/domains and NetBIOS names?

- A. nmblookup
- B. findsmb
- C. smbget
- D. smbclient

Answer: B

QUESTION 321

How can it be checked that a machine was successfully added to an Active Directory environment?

- A. net RPC testjoin
- B. tdbdump /etc/samba/secret.tdb
- C. testparm -v |grep join
- D. net ADS testjoin

Answer: D

QUESTION 322

What are the requirements for configuring a Samba file server to work in Active Directory mode? (Select THREE.)

- A. Join a domain using the command: net ads join
- B. Specify a realm in the smb.conf file.
- C. Synchronize time with the realm server.
- D. Use Winbind in the ADS mode with this command: winbindd -krb5
- E. Create an administrator account with the pdbedit command.

Answer: ABC

QUESTION 323

Which of the following are true when considering SMB/CIFS browsing? (Choose THREE correct answers)

- A. Servers and workstations register their presence to the network.
- B. One or more machines on the network collate the local announcements.
- C. It is not possible to share NetBIOS name information across subnets.
- D. Elections are held to determine the roles of certain servers.
- E. Currently, only Microsoft Windows servers can initiate an election.

Answer: ABD

QUESTION 324

When configuring a Samba logon server to force Windows clients to run login.bat upon login, what setting must be added to smb.conf to force execution of this script? Assume that the path to the script is not needed. (Enter the correct parameter and value)

Answer: LOGONSCRIPT=LOGIN.BAT

QUESTION 325

Which command will mount the accounting share hosted on the Windows server with the NetBIOS name joeserv.

- A. mount -t smbfs -h joeserv \\accounting /mnt
- B. mount -t smbfs -h joeserv //accounting /mnt
- C. mount -t smbfs \\joeserv\accounting /mnt
- D. mount -t smbfs //joeserv/accounting /mnt

Answer: D

QUESTION 326

After specifying wins server = 192.168.0.3 in smb.conf, the nmbd daemon now fails to start. This is probably because the setting _____ = yes was also specified.

Answer: WINSSUPPORT

QUESTION 327

Which of the following are true of CIFS? (Choose TWO correct answers)

- A. Filenames can be in any character set.
- B. Filenames can have a maximum length of 127 characters.
- C. Unlike SMB, CIFS is not optimized for slow network connections.
- D. Opportunistic Locks are supported.

Answer: AD

QUESTION 328

What is the most suitable procedure for accessing a Windows machine by its NetBIOS name from a Linux system?

- A. Setup a dynamic DNS server to accept updated records from the Windows machine.
- B. Run nmbd and winbindd on the Linux system and enable the WINS proxy.
- C. Import the list of the NetBIOS names into a NIS server and enable a NIS client on the Linux system.
- D. Install libnss_wins.so on the Linux system and configure the name service switch subsystem.

Answer: D

QUESTION 329

Which command CANNOT be used to mount a shared filesystem in your Linux environment?

- A. mount.cifs //server/share /mnt -o user=user
- B. mount -t cifs //server/share /mnt -o user=user
- C. mount -t smbfs //server/share /mnt -o username=user
- D. smbmount //server/share /mnt -o username=user
- E. cifsmount //server/share /mnt -o username=user

Answer: E

QUESTION 330

What are the correct alternatives to the nmblookup command when performing NetBIOS lookups? (Select THREE correct answers.)

- A. nmblookup "server#20" looks for an authentication server called server.
- B. nmblookup -S name lists the recorded names by the NetBIOS machine called name.
- C. nmblookup -A lists all recorded names in the local NetBIOS server.
- D. nmblookup "testing#1d" looks for a Local Master Browser for the workgroup TESTING.
- E. nmblookup "server#1D" looks for a Master Browser Server called server.

Answer: BDE

QUESTION 331

Which of the following are valid name resolution options for the name resolve order parameter in smb.conf? (Choose THREE correct answers)

- A. host
- B. files
- C. ldap
- D. wins
- E. bcast

Answer: ADE

QUESTION 332

In order to restrict access to the SMB (445/tcp) port and stop the use of NetBIOS (139/tcp), what parameter is required in smb.conf in Samba 3?

- A. disable netbios = Yes
- B. smb port = 445
- C. disable directhosting = No
- D. socket options = port:445

Answer: B

QUESTION 333

In order to successfully configure cross-subnet browsing for the replication of browse lists, every subnet must:

- A. have one WINS server.
- B. have one Local Master Browser.
- C. have one Domain Master Browser
- D. have a DHCP server capable of providing the WINS server's address to each client.

Answer: B

QUESTION 334

What is the lowest possible value for the os level parameter in smb.conf to ensure your Samba server will always win the election against any Microsoft server? (Enter only the number in numeric format)

Answer: 33

QUESTION 335

Which smb.conf directive is required to configure a Samba server to act as a WINS server?

- A. wins proxy
- B. wins server
- C. wins support
- D. Nothing needs to be done. All Samba servers are automatically a WINS server.

Answer: C

QUESTION 336

The _____ command displays, along with other information, the computers in the NetBIOS network working as a text mode equivalent to the Windows My Network Places feature.

Answer: FINDSMB

QUESTION 337

You need to configure Roaming Profiles in a Samba server called TECH. You have to create the profile in a sub-directory called profiles inside of each user's home directory. What is the correct logon path setting? Please specify the full line with parameter and value.

Answer: LOGONPATH=\\TECH\\%U\\PROFILES

QUESTION 338

Which of the following is the correct syntax for including a schema file in slapd.conf?

- A. include /usr/local/etc/openldap/schema/core.schema
- B. allow /usr/local/etc/openldap/schema/core.schema
- C. permit /usr/local/etc/openldap/schema/core.schema
- D. add /usr/local/etc/openldap/schema/core.schema

Answer: A

QUESTION 339

What does the LDIF acronym stand for?

- A. Lightweight Database Interchange Format
- B. LDAP Database Interchange Format
- C. LDAP Data Internet File
- D. LDAP Data Interchange Format

Answer: D

QUESTION 340

Which of the following describes correct LDAP service definitions? (Select THREE.)

- A. LDAP was developed as a lightweight alternative to DAP.
- B. LDAPv6 is the latest stable version specified by RFCs.
- C. LDAP follows the X.500 directory standard.
- D. X.500 directories can run only over TCP/IP.
- E. LDAP is optimized for searching information.

Answer: ACE

QUESTION 341

Select the INCORRECT statement regarding the LDIF file format:

- A. It must contains a "dn" line (or distinguished name), that indicates where the attributes listed in the following lines of the file must be added.
- B. In the file, a blank line separates one entry from another one.
- C. If the attribute contains binary data, some specific configurations must be made for this entry.
- D. The LDIF file accepts any type of file encoding.

Answer: D

QUESTION 342

All entries in an LDAP directory must have the _____ attribute.

Answer: OBJECTCLASS

QUESTION 343

A private OID should be obtained for a company when:

- A. That company runs out of public OIDs.
- B. The company intends to use LDAP for commercial purposes.
- C. The company wants to make their directory available to the public on the World Wide Web.
- D. The company plans to create custom schema files for their directory.

Answer: D

QUESTION 344

When assigned to the ref attribute for ou=people,dc=example,dc=com, which of the following values will create a subordinate knowledge link to slave.example.com?

- A. ldap://slave.example.com/ou=people,dc=example,dc=com
- B. ldap://slave.example.com?ou=people,dc=example,dc=com
- C. ldap://slave.example.com ou=people,dc=example,dc=com
- D. ldap://slave.example.com,ou=people,dc=example,dc=com

Answer: A

QUESTION 345

Which statements are true of object classes in an LDAP directory? (Choose TWO correct answers)

- A. Auxiliary object classes - when used on their own - provide access to extended schema.
- B. An entry cannot have more than one auxiliary object class.
- C. An entry cannot have more than one structural object class.
- D. Once an entry has been created, its structural object class cannot be changed without re creating the entry.
- E. Abstract object classes are no longer officially support by the LDAP protocol.

Answer: CD

QUESTION 346

What is true of any created custom attribute or object class?

- A. It cannot be placed in one of the default distributed schema files.
- B. The name must be registered with IANA to avoid conflicts with other custom schemas.
- C. It must have a unique OID.
- D. It must not contain any numbers.

Answer: C

QUESTION 347

The _____ object class is used to point to a host that holds a subtree in a distributed directory

model. (Please enter only the object class name.)

Answer: REFERRAL

QUESTION 348

Which of the following is correct about this excerpt from an LDIF file? dn:
cn=PrintOperators,ou=Groups,ou=IT,o=BR

- A. dn is the domain name.
- B. o is the organizational unit.
- C. cn is the common name.
- D. dn is the relative distinguished name.

Answer: C

QUESTION 349

When configuring a Unix client to authenticate against a Microsoft Active Directory server, the top-level entry in the domain is dc=ad,dc=example,dc=com. What is the default DN of the container where users and groups are stored?

Answer: CN=USERS,DC=AD,DC=EXAMPLE,DC=COM

QUESTION 350

When logged in to a workstation which retrieves most of its user information from NIS, which command can be used to list ALL the users?

- A. cat /etc/passwd
- B. show users
- C. ypusers list
- D. getent passwd
- E. cat /var/lib/nis/passwd

Answer: D

QUESTION 351

An administrator has manually migrated local accounts to LDAP, instead of using the migration tools. When trying to authenticate as a user, an error is returned about invalid credentials. What is the most likely cause of this?

- A. The password hash type was not included in the user's password attribute.
- B. Shadow passwords are incompatible with OpenLDAP.
- C. The original password from /etc/passwd was not included.
- D. The administrator forgot to run slapasswd to convert the hashes in /etc/shadow.
- E. The administrator forgot to run ldappasswd to convert the hashes in /etc/shadow.

Answer: A

QUESTION 352

What strategy is used to initialize NIS maps?

- A. Create the yp.conf configuration file then restart the NIS server process.
- B. Create the nis.conf configuration file then restart the NIS server process.

- C. Start ypserver with the -new option.
- D. Execute the make command from the /var/yp directory.

Answer: D

QUESTION 353

What command will remove the dmccrypt mapping named cryptvol? (Provide the command with any options and parameters)

Answer: /sbin/cryptsetup remove crypt-vol cryptsetup remove crypt-vol

QUESTION 354

Which LUKS action, when supplied to the cryptsetup command, will initialize a LUKS partition and set the initial key? (Provide only the action name)

Answer: luksFormat

QUESTION 355

An administrator has created a mapping with the following command:

`cryptsetup luksOpen /dev/sda1 cryptvol` and has set three different keys.
Which command below will delete the first key?

- A. `cryptsetup luksDelKey /dev/sda1 0`
- B. `cryptsetup luksDelKey /dev/sda1 1`
- C. `cryptsetup luksDelKey /dev/mapper/cryptvol 1`
- D. `cryptsetup luksDelKey /dev/mapper/cryptvol 0`

Answer: A

QUESTION 356

What command will list basic information about all targets available to cryptmount? (Provide the command with any options or parameters)

Answer:

`cryptmount--list`
`/usr/bin/cryptmount-l`
`/usr/bin/cryptmount--list cryptmount-l`

QUESTION 357

Which of the following are valid dmccrypt modes? (Choose THREE correct answers)

- A. XTS
- B. ESSIV
- C. GMR
- D. KWG
- E. LRW

Answer: ABE

QUESTION 358

Which directive in the OpenVPN client.conf specifies the remote server and port that the client should connect to? (Provide only the directive, without any options or parameters)

Answer: remote

QUESTION 359

You are certain that your kernel has been compiled with ACL support, however, when you try to set an ACL on a file, you get the following output:

```
% setfacl m user:hugh:r afile.txt
setfacl: afile.txt: Operation not supported
```

What is the most likely reason for this problem?

- A. There is an error in the command line parameters.
- B. There is no user on the system named hugh.
- C. The partition has not been mounted with the acl option.
- D. The file afile.txt doesn't exist.

Answer: C

QUESTION 360

Which of the following are valid OpenVPN authentication modes? (Choose TWO correct answers)

- A. S/Key
- B. Kerberos
- C. Static Key
- D. Password
- E. TLS

Answer: CE

QUESTION 361

What is true about the permissions for the file afile given the following output from getfacl? (Select TWO correct answers)

```
% getfacl afile
# file: afile
# owner: matt
# group: support
user::rwx
user:hugh:rw
group::r
group:staff:rx
mask::rwx
other::r
```

- A. Anyone in the support group will be able to read and execute the file.
- B. The user hugh will be able to read the contents of the file.
- C. Anyone in the users group will be able to read the file.
- D. The user matt will not be able to edit this file.
- E. Anyone in the staff group will be able to read and execute the file.

Answer: BE

QUESTION 362

You wish to revoke write access for all groups and named users on a file. Which command will make the correct ACL changes?

- A. setfacl x group::rx,user::rx afile
- B. setfacl x mask::rx afile
- C. setfacl m mask::rx afile
- D. setfacl m group::rx,user::rx afile

Answer: C

QUESTION 363

What is the default UDP port for OpenVPN traffic?

Answer: 1194

QUESTION 364

When adding additional users to a file's extended ACLs, what is true about the default behaviour of the ACL mask for the file?

- A. The mask is modified to be the union of all permissions of the file owner, owning group and all named users and groups.
- B. The mask is left unchanged.
- C. If required, a warning is printed indicating that the mask is too restrictive for the permissions being granted.
- D. The mask is modified to be the union of all permissions of the owning group and all named users and groups.

Answer: D

QUESTION 365

In which of the following scenarios MUST an administrator use ethernet bridging instead of routing when configuring an OpenVPN site? (Select TWO correct answers)

- A. Some OpenVPN clients will be installed on laptops and must be able to connect from different locations.
- B. NetBIOS traffic must be able to traverse the VPN without implementing a WINS server.
- C. The IPv4 protocol is required.
- D. It will be necessary to use an MTU setting other than the default.
- E. The IPX protocol is required.

Answer: BE

QUESTION 366

Linux Extended Attributes include attribute classes. Which of the following are included in the defined attribute classes? (Select THREE correct answers)

- A. default
- B. system
- C. owner
- D. trusted
- E. user

Answer: BDE

QUESTION 367

Which of the following statements are true about Linux Extended Attributes on files? (Select TWO correct answers)

- A. An attribute value may be empty.
- B. Attribute storage counts toward disk quota use.
- C. Attribute use is enabled by mounting a partition with the attr option.
- D. An attribute is file, not inode, specific. Thus, a hard linked file in two locations could have different attributes.
- E. Attributes are not used by SELinux and other kernel security modules.

Answer: AB

QUESTION 368

Which command will set the user.author attribute on the file afile.txt?

- A. setfattr user.author:"A. Author" afile.txt
- B. setfattr n user.author v "A. Author" afile.txt
- C. setfattr user.author="A. Author" afile.txt
- D. setfattr a user.author="A. Author" afile.txt

Answer: B

QUESTION 369

Which of the following lines in the OpenVPN server.conf file will supply a DNS server for DHCP clients to use?

- A. push "dhcption DNS 10.142.232.4"
- B. push "dhcp DNS 10.142.232.4"
- C. push "options DNS 10.142.232.4"
- D. push "dhcptions DNS 10.142.232.4"

Answer: A

QUESTION 370

Which command will list all of the extended attributes on the file afile.txt along with the values?

- A. getfattr all afile.txt
- B. getfattr afile.txt
- C. getfattr list afile.txt
- D. getfattr dump afile.txt

Answer: D

QUESTION 371

Which of the following statements is true when querying the extended attributes of a file that has no extended attributes set?

- A. getfattr will print a warning and exit with a value of 0.
- B. getfattr will print a warning and exit with a value of 1.
- C. No output will be produced and getfattr will exit with a value of 0.
- D. No output will be produced and getfattr will exit with a value of 1.

Answer: C

QUESTION 372

Which directive must be set to 0 in a host or service definition to prevent Nagios from sending more than one alert for a particular event? (Specify only the directive without any options or parameters).

Answer: notification_interval

QUESTION 373

What is the purpose of the Safe Checks option in a Nessus configuration?

- A. Enables secure scanning over an encrypted tunnel.
- B. To prevent the use of plugins which may have a negative effect on the network being scanned
- C. To prevent the use of plugins which may leave the Nessus server vulnerable during the scanning process
- D. When validating a Nessus configuration file, the nessusd process will not be interrupted.

Answer: B

QUESTION 374

In Nessus, what does the acronym NASL stand for?

Answer:

Nessus
Attack Scripting
Language

QUESTION 375

An administrator is capturing traffic with Wireshark and is only seeing ARP traffic. What is the most likely cause of this?

- A. The network interface on which the scan is running is not in promiscuous mode.
- B. The machine is on a switched network and is therefore only seeing local and broadcast/multicast packets.
- C. The administrator did not enable the TCP and UDP options when starting the scan.
- D. The network interface on which the scan is running has the ARP_ONLY flag set.

Answer: B

QUESTION 376

Which statements are true of the following Wireshark capture filter:

(tcp[2:2] > 1500 and tcp[2:2] < 1550) or (tcp[4:2] > 1500 and tcp[4:2] < 1550)

(Select TWO correct answers)

- A. Every packet being checked has a 2 byte offset.
- B. Traffic on ports 1500-1550 is being captured.
- C. Traffic on ports 1501-1549 is being captured.
- D. Only two bytes are being checked in each packet.
- E. Up to four bytes are being checked in each packet.

Answer: CE

QUESTION 377

The command 'nmap -sS 10.142.232.10' produces the following output:

```
PORT STATE SERVICE
631/tcp open ipp
3306/tcp open mysql
```

Which of these statements are true? (Select TWO correct answers)

- A. A simple scan was launched.
- B. The scan was executed by the root user.
- C. Output will be sent to a file instead of stdout.
- D. A stealth SYN scan was launched.
- E. There are no other services running on this machine.

Answer: BD

QUESTION 378

Which of the following can be done to secure a BIND server? (Select THREE correct answers)

- A. Run the BIND daemon as a nonroot user.
- B. Configure ACLs.
- C. Require clients to authenticate with a password before querying the server.
- D. Run the BIND daemon in a chroot jail
- E. Encrypt DNS traffic using SSL/TLS.

Answer: ABD

QUESTION 379

DNS servers are vulnerable to which of the following attacks? (Select THREE correct answers)

- A. Cache Poisoning
- B. Fork Bomb Attack
- C. PasswordBased Attack
- D. ManintheMiddle
- E. Smurf Attack

Answer: ADE

QUESTION 380

Which tool, distributed with BIND 9, will check the syntax of a named configuration file? (Supply only the program name, without any options or parameters)

Answer:

namedcheckconf
/usr/sbin/namedcheckconf

QUESTION 381

The apache administrator has added the following lines to the configuration files:

```
<Directory />  
AllowOverride None  
</Directory>
```

What is the purpose of this directive?

- A. It stops users from serving HTML files from their home directories.
- B. It prevents HTML files from being served out of the / directory.
- C. It stops users from setting up .htaccess files unless specifically allowed in additional configuration.
- D. It prevents CGI scripts from modifying apache features dynamically.

Answer: C

QUESTION 382

What command is used to create and maintain a Basic Authentication password file for apache?
(Specify only the command, with no path or arguments)

Answer:

htpasswd

QUESTION 383

SELinux is a Linux feature that:

- A. monitors system file access by unprivileged users and warns them when they are trying to gain access to files beyond their permission levels set in the Mandatory Access Control policies.
- B. provides only Mandatory Access Control policies. Additional access control models such as Rolebased access control require additional tools to implement.
- C. enforces Mandatory Access Control policies that can restrict user space programs and system servers to the minimum amount of privilege required to operate correctly.
- D. ensures that system files referenced in the Mandatory Access Control policies are not modified and alerts administrators when changes occur.

Answer: C

QUESTION 384

Which of the following statements are advantages that Mandatory Access Control has over Discretionary Access Control models? (Select TWO correct answers)

- A. MAC policies are easier to configure than use of DAC.
- B. MAC adds the concept of privileged remote users which is not available with simple DAC.
- C. MAC policies increase the ability of the root user to correct errors.
- D. MAC lets the kernel help decide if an object, such as a device or process, can access another object.
- E. Trust is placed in the administrators and not in individual users.

Answer: DE

QUESTION 385

What are the steps which must be followed to enable serverwide zone transfers between two BIND 9 servers securely using TSIG?

- A. Generate a key, specify the public key in the named configuration on both servers, create a server statement in the named configuration on both servers.
- B. Generate a key, specify the private key in the named configuration on both servers, create a server statement in the named configuration on both servers.
- C. Generate a key, specify the private key in the named configuration on one server and the public key in the named configuration on the other, create a remote statement in the named configuration on both servers.
- D. Generate a key, specify the private key in the named configuration on one server and the public key in the named configuration on the other, create a server statement in the named configuration on both servers.

Answer: B

QUESTION 386

Under which path is the selinux pseudofilesystem found?

- A. /dev/selinux
- B. /sys/selinux
- C. /selinux
- D. /var/selinux
- E. /proc/selinux

Answer: C

QUESTION 387

With SELinux, what is the command that is used for changing the context of a file? (Specify the command only, with no path information or arguments)

Answer: chcon chsid setfattr

QUESTION 388

An unprivileged user issued a command which produced the following log message:

```
avc: denied { getattr } for pid=984 exe=/usr/bin/vim path=/etc/shadow
dev=03:01 ino=134343
scontext=hugh:user_r:user_t          tcontext=system_u:object_r:shadow_t
tclass=file
```

What does the message mean?

- A. User hugh was not running in a security context that permitted reading the file.
- B. User hugh only needs to switch to the object_r role in order to edit /etc/shadow.
- C. The security context for hugh is misconfigured and needs access to read any system file.
- D. User hugh was not running in a security context that permitted writing to the file.

Answer: A

QUESTION 389

When a user logs into a system using SSH, what is the format of SELinux security context which will assign the user_r role and the user_t domain to their login sessions?

- A. user_r:user_t system_r:sshd_t
- B. sshd_t:system_r user_t:user_r
- C. system_r:sshd_t user_r:user_t
- D. user_t:user_r sshd_t:system_r

Answer: C

QUESTION 390

How are SELinux permissions related to standard Linux permissions?

- A. SELinux permissions override standard Linux permissions.
- B. Standard Linux permissions override SELinux permissions.
- C. SELinux permissions are verified before standard Linux permissions.
- D. SELinux permissions are verified after standard Linux permissions.

Answer: D

QUESTION 391

A user that is allowed to use the su command under SELinux is also allowed to switch from the user role to the sysadmin role. What command will run a new shell for the user in the new context? (Specify the command only, with no path, options or arguments)

Answer: newrole

QUESTION 392

What is the difference between an SELinux domain and an SELinux type?

- A. A domain is a group of SELinux types.
- B. A domain defines the range of access that an object has. A type is used to define an access level.
- C. A domain is assigned to processes while a type is assigned to objects such as files and directories.
- D. A domain is an alternative keyword for type.

Answer: C

QUESTION 393

An SELinux security context is required to ensure that all files in /opt have the default context of system_u:object_r:usr_t. How should the corresponding configuration entry be formatted?

- A. system_u:object_r:usr_t /opt/*
- B. /opt/. * system_u:object_r:usr_t
- C. /opt/* system_u:object_r:usr_t
- D. system_u:object_r:usr_t: /opt/. *
- E. system_u:object_r:usr_t /opt/. *

Answer: B

QUESTION 394

Specifying the _____ parameter in sshd_config will allow the administrator to systematically provide access to certain user accounts by name.

Answer: Allow Users

QUESTION 395

An administrator can prevent dictionary based attacks against an OpenSSH server by forcing keyboard authentication with which TWO parameters in sshd_config?

- A. PasswordAuthentication
- B. HostKey
- C. PrivatekeyAuthentication
- D. PubkeyAuthentication
- E. ServerKey

Answer: AD

QUESTION 396

A user is attempting to connect to a remote server via SSH and receives the following message:
The authenticity of host 'mail.example.com (208.77.188.166)' can't be established.
RSA key fingerprint is 92:32:55:e9:c4:20:ae:1b:2c:d7:91:40:90:89:1c:ad.

Are you sure you want to continue connecting (yes/no)?
What does this indicate?

- A. The RSA key fingerprint was found in the SpamCop database, indicating that the remote host is a known spammer.
- B. The user's SSH client was unable to connect to the remote host's authentication agent for verification.
- C. The user's SSH client is incompatible with the server's RSA key.
- D. The server's SSH host key cannot be found in the list of known hosts.

Answer: D

QUESTION 397

A user is attempting to connect to a remote host via SSH and following message is displayed:
Host key verification failed.
Which of the following options could resolve the problem? (Select TWO correct answers)

- A. Add the o StrictHostKeyChecking=no option to the command.
- B. Enable the PasswordAuthentication parameter on the remote host.
- C. Generate new SSH host keys on the remote host.
- D. Generate a new private key which is compatible with the server's host key.
- E. Update the remote host's SSH host key in the list of know hosts.

Answer: AE

QUESTION 398

Where is the global list of known SSH host keys located? (Supply the full path and filename)

Answer:

/etc/ssh/ssh_known_hosts

QUESTION 399

Which of the following are valid NFSv4 security types?

- A. RSA
- B. SSL
- C. SPKM
- D. Kerberos
- E. LIPKEY

Answer: CDE

QUESTION 400

Which GPG command is used to sign a public key? (Select TWO correct answers)

- A. gpg signpublickey UID
- B. gpg signkey UID
- C. gpg sign UID
- D. gpg editkey UID followed with the sign command.
- E. gpg editkey UID followed with the confirm command.

Answer: BD

QUESTION 401

Which GPG command will publish a public key to a public key server?

- A. gpg exportkeys UID
- B. gpg publishkeys UID
- C. gpg sendkeys UID
- D. gpg pushkeys UID

Answer: C

QUESTION 402

Which GPG command is used to create a revocation certificate in case a GPG key ever needs to be cancelled?

- A. gpg genrevoke name
- B. gpg editkey name followed with the revoke command.
- C. gpg revoke name
- D. gpg createrevoke name

Answer: A

QUESTION 403

Which command is used to add an additional name, email address and comment to an existing private key?

- A. gpg editkey name followed with the adduid command.
- B. gpg addsubkey name
- C. gpg addalias name
- D. gpg genalias name

Answer: A

QUESTION 404

Someone who wishes to receive an encrypted file has provided a key UID and a key fingerprint for verification to the data sender. Assuming that this key is on a public keyserver, what command will fetch the public key from the server?

- A. gpg findkeys UID
- B. gpg recvkeys UID
- C. gpg getkeys UID
- D. gpg refreshkeys UID

Answer: B

QUESTION 405

You have downloaded a file named file.tgz along with a signature file named file.tgz.asc. Which commands can be used to verify that file.tgz has not been tampered with since the file creator created the signature?

Assume that you have already retrieved the public key of the file creator. (Select THREE correct answers)

- A. gpg verify file.tgz.asc file.tgz

- B. gpg verify file.tgz
- C. gpg verify file.tgz.asc
- D. gpgv verify file.tgz.asc
- E. gpgv file.tgz.asc

Answer: ACE

QUESTION 406

By default, when verifying a signed file or a file with a detached signature, which keyring is used to search for public keys?

- A. ~/.gnupg/trustdb.gpg
- B. ~/.gnupg/secring.gpg
- C. ~/.gnupg/trustedkeys.gpg
- D. ~/.gnupg/pubring.gpg

Answer: C

QUESTION 407

Which utility is used for retrieving, setting, and removing NFSv4 ACLs? (Supply only the command name, with no options or parameters)

Answer:

nfs4acl
/usr/sbin/nfs4acl

QUESTION 408

An administrator has just configured vsftpd and notices that she cannot follow symbolic links when connected to the FTP server. What is the most likely reason for this?

- A. The follow_symlinks=no option has been set in vsftpd.conf.
- B. vsftpd is running in a chroot environment.
- C. This installation of vsftpd was not compiled with support for symbolic links.
- D. The user account she is connecting with is not listed in /etc/security/ftpusers.

Answer: B

QUESTION 409

Which parameter in vsftp.conf will restrict users to their home directory? (Supply only the parameter name, with no options or values)

Answer:

chroot_local_user

QUESTION 410

What is one of the primary claimed benefits of Smack over SELinux?

- A. Smack implements Rule Set Based Access Control. SELinux doesn't support this model.
- B. SELinux has export restrictions placed on it by the NSA.
- C. Configuration of Smack is much more simple.
- D. Smack allows users to share files without administrator intervention.

Answer: C

QUESTION 411

How does AppArmor configure its access control settings?

- A. AppArmor does not require any configuration.
- B. AppArmor inspects the Linux system to determine which applications are installed and configures itself. This configuration can then be modified manually.
- C. AppArmor relies on precompiled policies. These policies are updated with new releases or can be downloaded periodically.
- D. A profile is assigned per application that specifies the system resources available to the application.

Answer: D

QUESTION 412

Which of the following is NOT a valid scan technique with nmap?

- A. Window
- B. SYN
- C. ACK
- D. Connect()
- E. RST

Answer: E

QUESTION 413

Postfix daemons can be chroot'd by setting the chroot flag in _____. (Supply only the filename, without a path)

Answer: master.cf

QUESTION 414

What can proxymap be used for in a Postfix installation? (Select TWO correct answers)

- A. Consolidating the number of open lookup tables.
- B. Creating and querying Postfix alias databases.
- C. Mapping mail user IDs to system accounts.
- D. Overcoming chroot restrictions.
- E. Creating and querying Postfix lookup tables.

Answer: AD

QUESTION 415

Which of the following parameters should be set in main.cf to enable TLS in Postfix?

- A. smtpd_tls_cert_file, smtpd_tls_key_file, smtpd_tls_CAfile, smtpd_use_tls
- B. smtpd_tls_key_file, smtpd_tls_CAfile, smtpd_use_tls, smtpd_tls_pem_file
- C. smtpd_tls_CAfile, smtpd_use_tls, smtpd_tls_pem_file, smtpd_tls_cert_file
- D. smtpd_use_tls, smtpd_tls_pem_file, smtpd_tls_cert_file, smtpd_tls_key_file

Answer: A

QUESTION 416

The system administrator wishes to use John the Ripper to confirm that the passwords in a file called passwords are not weak. john has finished but the terminal window running the program has closed. What command can be used to list any cracked passwords for this file?

- A. john list passwords
- B. john list
- C. john show
- D. john show passwords

Answer: D

QUESTION 417

On a new Linux system, the root user is being asked to provide the root user password before being able to use the su command. What line in the /etc/pam.d/su file will allow root to use su without supplying passwords?

- A. auth required pam_norootpw.so
- B. auth sufficient pam_norootpw.so
- C. auth required pam_rootok.so
- D. auth sufficient pam_rootok.so

Answer: D

QUESTION 418

The system administrator wishes to use the pam_listfile.so module to restrict which users are allowed to login via SSH. Which line will configure this behaviour?

- A. auth required pam_listfile.so item=user sense=deny file=/etc/ssh/sshd.deny onerr=succeed
- B. auth required pam_listfile.so item=user sense=allow file=/etc/ssh/sshd.allow onerr=succeed
- C. auth required pam_listfile.so item=user sense=allow file=/etc/ssh/sshd.allow onerr=fail
- D. auth required pam_listfile.so item=user sense=deny file=/etc/ssh/sshd.deny onerr=fail

Answer: C

QUESTION 419

Which of the following is NOT included in a Snort rule header?

- A. protocol
- B. action
- C. source IP address
- D. packet byte offset
- E. source port

Answer: D

QUESTION 420

What is the purpose of snort inline?

- A. To run the snort daemon without forking child processes.
- B. To have iptables use snort rules to filter packets.
- C. To have snort log suspicious activity only, without performing any actions

D. To run the snort daemon as a nonroot user.

Answer: B

QUESTION 421

What is the purpose of tripwire?

- A. To act as a honeypot and attract attackers.
- B. To enforce mandatory access control policies to confine users to the minimum amount of privilege required.
- C. To monitor a server for breakin attempts and, if desired, ban the IP address.
- D. To identify changes to critical system files and directories.

Answer: D

QUESTION 422

Which of the following commands will create a new, signed tw.pol file?

- A. twadmin createpolfile e S mykey.key /etc/tripwire/twpol.txt
- B. twadmin createcfgfile S mykey.key /etc/tripwire/twpol.txt
- C. twadmin createpolfile S mykey.key /etc/tripwire/twpol.txt
- D. twadmin createcfgfile e S mykey.key /etc/tripwire/twpol.txt

Answer: C

QUESTION 423

What openssl command will generate a private RSA key of 2048 bits and no passphrase?

- A. openssl genrsa des3 out privkey.pem 2048
- B. openssl genrsa out privkey.pem 2048
- C. openssl genrsa nopass out privkey.pem 2048
- D. openssl genrsa nopass des3 out privkey.pem 2048

Answer: B

QUESTION 424

What openssl command will generate a certificate signing request (CSR) using the private key file privkey.pem?

- A. openssl req key privkey.pem out cert.csr
- B. openssl req new key privkey.pem out cert.csr
- C. openssl gencsr key privkey.pem out cert.csr
- D. openssl gencsr new key privkey.pem out cert.csr

Answer: B

QUESTION 425

What openssl command will generate a selfsigned test certificate?

- A. openssl req new x509 key privkey.pem out cacert.pem days 365
- B. openssl sign key privkey.pem out cacert.pem days 365
- C. openssl req key privkey.pem out cacert.pem days 365

D. openssl sign new x509 key privkey.pem out cacert.pem days 365

Answer: A

QUESTION 426

Which openssl command is used to inspect the information stored in a certificate?

- A. x509
- B. show
- C. info
- D. req

Answer: A

QUESTION 427

The openssl command can be used to test connections with various secure services. What command will open a connection with a remote POP3S (POP3 over SSL) server?

- A. openssl connect host pop.example.com:pop3s
- B. openssl connect pop.example.com:pop3s
- C. openssl s_client connect pop.example.com:pop3s
- D. openssl s_client pop.example.com:pop3s

Answer: C

QUESTION 428

Which of the following rule directives will email kevin@example.com and matt@example.com when the Mail Configuration rule is violated?

- A. (
 rulename = "Mail Configuration",
 severity = \$(SIG_HI),
 emailto = kevin@example.com,
 emailto = matt@example.com
)
- B. (
 rulename = "Mail Configuration",
 severity = \$(SIG_HI),
 emailto = kevin@example.com,matt@example.com
)
- C. (
 rulename = "Mail Configuration",
 severity = \$(SIG_HI),
 emailto = kevin@example.com;matt@example.com
)
- D. (
 rulename = "Mail Configuration",
 severity = \$(SIG_HI),
 emailto = kevin@example.com,
 emailcc = matt@example.com
)

Answer: C

QUESTION 429

When configuring LDAP to use certificates, which option should be used with the TLSVerifyClient directive to ask the client for a valid certificate in order to proceed normally?

- A. never
- B. allow
- C. try
- D. demand

Answer: D

QUESTION 430

Which configuration directive must be used in the example below to setup replication to a slave server? _____ uri=ldaps://slave.example.com:636
binddn="cn=Replicator,dc=example,dc=com"bindmethod=simple credentials=secret

Answer: REPLICA

QUESTION 431

Which of the following parameters in slapd.conf are used to tune the database cache size? (Choose TWO answers.)

- A. dcachesize
- B. dbcachesize
- C. databasecachesize
- D. cachesize

Answer: BD

QUESTION 432

In an LDAP slave's slapd.conf configuration file, which parameter must match the binddn parameter of the master server?

Answer: UPDATEDN

QUESTION 433

An administrator notices that searches are being processed sequentially and taking a long time to complete. What should be done to speed up the searches?

- A. Add the correct indexes in slapd.conf, stop the server and run slapindex.
- B. Refine the search filter.
- C. Use the -binarytreesearch option with ldapsearch.
- D. Use the -fuzzy option with ldapsearch.

Answer: A

QUESTION 434

Which command will instruct slurpd to process the replication error log in one-shot mode for the server 192.168.0.3?

- A. slurpd -r -h 192.168.0.3 -o

- B. slurpd -r /path/to/replication/error/log -o
- C. slurpd -r -o < /path/to/replication/error/log
- D. slurpd -r -f /path/to/replication/error/log -o
- E. slurpd -r -o 192.168.0.3

Answer: B

QUESTION 435

The following is an excerpt from a replication error log:

```
ERROR: No such attribute
replica: slave.example.com:389
time: 809618633
dn: uid=bjensen,dc=example,dc=com
changetype: modify
replace: description
description: A dreamer...
-
replace: modifiersName
modifiersName: uid=bjensen,dc=example,dc=com
-
replace: modifyTimestamp
modifyTimestamp: 20000805073308Z
-
```

What is the name of this file? (Enter only the file name and no path information.)

Answer: REPLICATION.SLAVE.EXAMPLE.COM:389.REJ

QUESTION 436

To restrict user authentication to ONLY users who belong to a specific organizational unit, which file should be modified?

- A. ldap.conf
- B. pam_ldap.conf
- C. pam.conf
- D. /etc/pam.d/login
- E. /etc/pam.d/ldap

Answer: A

QUESTION 437

Which of the following tools are used to measure memory usage? (Select THREE correct answers.)

- A. mpstat
- B. pstree
- C. sar
- D. top
- E. vmstat

Answer: CDE

QUESTION 438

When performing a capacity planning exercise, when would taking measurements be most appropriate?

- A. During successful operation.
- B. During an overload or an episode.
- C. After an overload or an episode.
- D. After replacing problematic hardware.

Answer: A

QUESTION 439

In the following output, what resource is the program being observed using the most?

```
procs
r b w      swpd  free  buff  cache  si so  bi bo  in  cs us sy  id
1 0 0      0 76272 67784 55956  0 0 35 16 107 36 5 2 93
0 0 0      0 24936 67992 55960  0 0  0  3 281 412 18 26 56
8 0 0      0 4040 62872 51080  0 0  0  6 202 247 16 13 71
0 0 0      56 3384 34444 21744  0 0  0 17 205 245 16 16 68
0 0 0     1128 3532 31032 18868  0 27  0 31 151 119  9 11 81
2 0 0     1044 19136 31044 18868  0 0  0  2 106  67  3  4 93
```

- A. CPU
- B. memory
- C. disk I/O
- D. network I/O

Answer: B

QUESTION 440

What operating system tools can be used to collect capacity planning data? (Select TWO correct)

```
procs
r b w      swpd  free  buff  cache  si so  bi bo  in  cs us sy  id
1 0 0      0 143904 25484 50724  0 0 30  8 104 33 3 2 95
0 0 0      0 143740 25572 50728  0 0  0  9 101 21 1 0 98
1 0 0      0 136772 28760 50728  0 0 255 58 190 190 3 5 92
1 0 0      0 118452 41596 50728  0 0 766 518 294 403 3 8 90
0 1 2      0 90260 61560 50728  0 0 622 1214 344 333 3 7 90
0 0 0      0 83816 65716 50728  0 0 270 393 265 188 2 5 93
```

- A. fuser
- B. iostat
- C. lsmod
- D. vmstat

Answer: BD

QUESTION 441

Which of the following tools are used to measure network I/O?

```
procs
r b w swpd free buff cache si so bi bo in cs us sy id
1 0 0 0 143904 25484 50724 0 0 30 8 104 33 3 2 95
0 0 0 0 143728 25584 50728 0 0 0 55 113 21 1 1 98
1 0 0 0 118452 41596 50728 0 0 766 518 294 403 3 8 90
1 0 0 0 105692 49912 50728 0 0 774 58 294 406 4 4 92
0 1 2 0 90260 61560 50728 0 0 622 1214 344 333 3 7 90
0 0 0 0 83816 65716 50728 0 0 270 393 265 188 2 5 93
```

- A. iostat
- B. netstat
- C. route
- D. vmstat

Answer: B

QUESTION 442

What is the goal of capacity planning? (Select THREE correct answers.)

- A. Ensuring sufficient resources for growth.
- B. Selecting a computer vendor.
- C. Sizing computers for a specific load.
- D. Diagnosing capacity problems.
- E. Troubleshooting a software problem.

Answer: ACD

QUESTION 443

Which of the following is the BEST way to list all defined shell variables?

- A. env
- B. set
- C. env -a
- D. echo \$ENV

Answer: B

QUESTION 444

All of the following information is provided in any output from the netstat utility EXCEPT:

- A. broadcast services
- B. interface statistics
- C. masquerading connections
- D. network connections
- E. routing tables

Answer: A

QUESTION 445

On a system using shadowed passwords, the correct permissions for /etc/passwd are ____ and the correct permissions for /etc/shadow are ____.

- A. -rw-r-----, -r-----
- B. -rw-r--r--, -r--r--r--
- C. -rw-r--r--, -r-----
- D. -rw-r--rw-, -r-----r--
- E. -rw-----, -r-----

Answer: C

QUESTION 446

Which of the following Class B IPv4 networks are reserved by IANA for private address assignment and private routing? (Select TWO).

- A. 128.0.0.0
- B. 169.16.0.0
- C. 169.254.0.0
- D. 172.16.0.0
- E. 172.20.0.0

Answer: DE

QUESTION 447

The correct crontab entry to execute the script chklog once per hour between 3 p.m. and 5 p.m. on Monday and Thursday each week is, which of the following?

- A. 0 3,4,5 * * 2,5 chklog
- B. 0 3,4,5 * * 1,4 chklog
- C. 0 15,16,17 * * 1,4 chklog
- D. 0 15,16,17 1,4 * * chklog
- E. * 15,16,17 * * 1,4 chklog

Answer: C

QUESTION 448

Which of the following commands allows an administrator to make a shell variable visible to subshells?

- A. export \$VARIABLE
- B. export VARIABLE
- C. set \$VARIABLE
- D. set VARIABLE
- E. env VARIABLE

Answer: B

QUESTION 449

Within smb.conf, which security setting will NOT require that a client connect using a valid username and password before connecting to a shared resource?

- A. security = user
- B. security=share
- C. security = server
- D. security=guest

Answer: B

QUESTION 450

Which of these are name resolution related files? (Choose Two)

- A. /etc/hosts
- B. /etc/nsswitch.conf
- C. /etc/lmhosts
- D. /etc/man
- E. /etc/dns.conf

Answer: AB

QUESTION 451

If you want to print a listing of your computer's mail queues, what command would you use?

- A. sendmail -l
- B. lpq
- C. mailq
- D. mlq

Answer: C

QUESTION 452

Which of the following tools is used to configure CUPS?

- A. lpc
- B. lpadmin
- C. lpr
- D. lpd
- E. lpctrl

Answer: B

QUESTION 453

What command should be entered to print and then delete the file, foobar.txt?

- A. lpr -o delete foobar.txt
- B. lpr -d foobar.txt
- C. lpr -r foobar.txt
- D. lpr -o remove foobar.txt

Answer: C

QUESTION 454

You have replaced inetd with xinetd. What must be done after installing to ensure that your machine will work correctly?

- A. You must add a symbolic link from inetd.conf to xinetd.conf.
- B. You don't have to do anything because they are compatible.
- C. You must create a new configuration file for xinetd.
- D. You must run xinetd-configure first.

Answer: C

QUESTION 455

Which configuration option can you use to prevent the root user from logging directly onto a machine using ssh?

- A. NoRootLogon
- B. PermitRootLogin No
- C. NoRootLogon Yes
- D. RootLogin = No
- E. ProhibitRootLogon No

Answer: B

QUESTION 456

What are the addresses falling into the range of 224.0.0.0 through 254.0.0.0?

- A. Class C network
- B. Class B network
- C. This is an experimental address range
- D. This is a broadcast range

Answer: C

QUESTION 457

Which of the following IP networks does RFC1918 reserve for use on private intranets?(Choose two)

- A. 10.0.0.0
- B. 224.0.0.0
- C. 199.14.0.0
- D. 172.152.0.0
- E. 192.168.0.0

Answer: AE

QUESTION 458

A remote logging computer with a host name of foobar is being installed on the local network. What line in the system message configuration file will send all system messages to the remote computer?

- A. *. * foobar. *
- B. *. * @foobar

- C. *=foobar
- D. *.foobar
- E. =foobar

Answer: B

QUESTION 459

You are writing a script and want to test the exit status of a process. Which of the following is true?

- A. The normal exit value differs.
- B. You can't test the normal exit value.
- C. The normal exit value is \$EXIT.
- D. The normal exit value is 0.

Answer: D

QUESTION 460

You are looking into a new script you received from your senior administrator. In the very first line you notice a #! followed by a path to a binary. The shell will ...

- A. ignore the script
- B. use that binary to interpret the script
- C. use that binary to compile the script
- D. be replaced by that binary

Answer: B

QUESTION 461

A user complained that programs started from his shell won't use his favorite editor. Which of the following files should you edit to change this?

- A. .editor
- B. .bashrc
- C. .bash_rc
- D. ~/bash.conf

Answer: B

QUESTION 462

In what file do you change default shell variables for all users?

- A. /etc/bashrc
- B. /etc/profile
- C. ~/.bash_profile
- D. /etc/skel/.bashrc
- E. /etc/skel/.bash_profile

Answer: B

QUESTION 463

The correct command to view "verbose" line printer queue information is

- A. lpq -l
- B. lpq -all
- C. lpq --verbose
- D. lpq -a

Answer: A

QUESTION 464

Ghostscript can be used as:

- A. A Line Printer Daemon
- B. A print filter to convert PostScript data for non-PostScript printers
- C. A print filter to allow correct printing on PostScript printers
- D. A print filter to remove "ghosting" and "staircase" effect problems
- E. A graphical viewer for PostScript files

Answer: B

QUESTION 465

Of the ways listed, which is the best way to temporarily suspend a user's ability to interactively login?

- A. Changing the user's UID.
- B. Changing the user's password.
- C. Changing the user's shell to /bin/false.
- D. Removing the user's entry in /etc/passwd.
- E. Placing the command logout in the user's profile.

Answer: C

QUESTION 466

What file is typically used to display messages at the login prompt when remote users telnet in to the machine?

- A. /etc/issue
- B. /etc/motd
- C. /etc/net.banner
- D. /etc/issue.net

Answer: D

QUESTION 467

Which of the following information is not provided by the command netstat?

- A. broadcast services
- B. interface services
- C. masquerading connections
- D. network connections
- E. routing information

Answer: A

QUESTION 468

Which of the following is an example of an ICMP packet with a message type?

- A. HTTP traffic packet
- B. DNS traffic packet
- C. Ping packet
- D. Ethernet frame
- E. SSH packet

Answer: C

QUESTION 469

Which of the following find command will print out a list of suid root files in /usr?

- A. find /usr -uid 0 -perm +4000
- B. 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

Answer: A

QUESTION 470

Man pages cover what topics? (Choose Three)

- A. superuser commands
- B. configuration commands
- C. system policies
- D. programming libraries
- E. kernel version information

Answer: ABD

QUESTION 471

Which of the following lines would you find in the file /etc/hosts?

- A. order hosts, bind
- B. 192.168.168.4 dns-server
- C. hosts: files,dns
- D. domain mycompany.com

Answer: B

QUESTION 472

The user bob complains that he cannot access his email. In which directory would you look to see if there is any deliverable email for him?

- A. /var/spool/mail
- B. /var/mail/mqueue

- C. /var/spool/mqueue
- D. /home/bob/.mail

Answer: A

QUESTION 473

To avoid spammers using your mail server to relay their messages, you need to _____.

- A. Disable the relay control in /etc/aliases
- B. Set up a ruleset for this in /etc/sendmail.cf
- C. Set up relay control in your DNS's MX record.
- D. Recompile sendmail with the -NORELAY flag.

Answer: B

QUESTION 474

One of your users has installed a commercial publishing program that works under X on a variety of UNIX and Linux platforms. The user made a series of configuration changes regarding the initial window size, location and color. Now he is having difficulties undoing these changes and is asking for your help. In which file would you think you would most likely find the configuration settings you are seeking to change?

- A. ~/.Xdefaults
- B. ~/.xinitrc
- C. ~/.xconfig
- D. /etc/X11/XF86Config

Answer: A

QUESTION 475

Which of the following answers regarding user account configuration are true?(Choose two)

- A. Username is case-sensitive
- B. Password is case-sensitive
- C. Username is case-insensitive
- D. Password is case-insensitive

Answer: AB

QUESTION 476

Which commands can you use to change a user's password expiry information? (Choose Three)

- A. usermod
- B. passwd
- C. chattr
- D. chage
- E. chsh

Answer: ABD

QUESTION 477

Your machine's IP address used to function, but it's only got the localhost "lo" entry now. What

three client-mode commands could you possibly use to get a new DHCP address?

- A. dhcpd
- B. ipconfig
- C. dhclient
- D. pump
- E. dhcpd

Answer: CDE

QUESTION 478

Which of the following lines would you expect to see in the file /etc/services?

- A. in.tftpd: LOCAL
- B. tftp dgram udp wait root /usr/sbin/tcpd in.tftpd
- C. tftp 69/udp
- D. udp 17 UDP

Answer: C

QUESTION 479

For accessibility assistance, which of the following programs is an on-screen keyboard?

- A. xkb
- B. atkb
- C. GOK
- D. xOSK

Answer: C

QUESTION 480

Which file is responsible for configuring the inet daemon?

- A. /etc/inetd.conf
- B. /etc/xinetd.conf
- C. /etc/tcpd.conf
- D. /etc/inet.conf

Answer: A

QUESTION 481

Which of the following lines would you expect to see in the file /etc/protocols?

- A. in.tftpd: LOCAL
- B. tftp dgram udp wait root /usr/sbin/tcpd in.tftpd
- C. tftp 69/udp
- D. udp 17 UDP

Answer: D

QUESTION 482

The following excerpt is from what standard network configuration file?

```
ftp      21/tcp
fsp      21/udp      fspd
ssh      22/tcp      # SSH Remote Login Protocol
ssh      22/udp
telnet    23/tcp
smtp      25/tcp      mail
time      37/tcp      timserver
time      37/udp      timserver
rlp       39/udp      resource    # resource location
nameserver 42/tcp      name        # IEN 116
whois     43/tcp      nickname
```

- A. /etc/hosts
- B. /etc/inetd.conf
- C. /etc/services
- D. /etc/syslog.conf

Answer: C

QUESTION 483

The user space log daemon is called ...?

- A. klog
- B. klogd
- C. syslog
- D. syslogd

Answer: D

QUESTION 484

How can you verify the integrity of the /etc/passwd file?

- A. pwchk
- B. pwck
- C. chkpw
- D. ckpw

Answer: B

QUESTION 485

Which directory in /etc is used to keep a sample copy of files and directories for when a new user has a home directory created? (Please provide the full path)

Answer: /etc/skel, /etc/skel/

QUESTION 486

Which of the following lines is an example of a correct setting for the DISPLAY environment variable?

- A. hostname:displayname
- B. hostname:displaynumber
- C. hostname/displayname

- D. hostname/displaynumber
- E. hostname

Answer: B

QUESTION 487

Which of the following characters in the password field of /etc/passwd is used to indicate that the encrypted password is stored in /etc/shadow?

- A. *
- B. -
- C. s
- D. x

Answer: D

QUESTION 488

Which of the following commands can be used to change a user's account aging information? (Select THREE).

- A. usermod
- B. passwd
- C. chattr
- D. chage
- E. chsh

Answer: ABD

QUESTION 489

Why is /etc/shadow not world readable if the passwords are stored in an encrypted fashion?

- A. The encrypted passwords are still subject to brute force attacks.
- B. This is just for historical reasons.
- C. There is other information in the file that needs to be kept secret.
- D. The passwords can be decrypted by anyone with root access.

Answer: A

QUESTION 490

Of the ways listed, which is the best way to temporarily suspend a single user's ability to interactively login?

- A. Add the user name to /etc/nologin.
- B. Change the user's password.
- C. Change the user name in /etc/passwd.
- D. Use chage to expire the user account.
- E. Place the command logout in the user's profile.

Answer: D

QUESTION 491

Which crontab entry could be used to set the system time at regular intervals?

- A. 1 0 * * * date \$d \$t \$24
- B. 1 0 * * * ntpdate ntp1.digex.net
- C. 1 0 * * * date ntp1.digex.net
- D. 1 0 * * * runcron date ntp1.digex.net
- E. 1 0 * * * settime \$d \$t \$24

Answer: B

QUESTION 492

Which of the following commands can be used to convert text files in one character encoding to another character encoding?

- A. cat
- B. convert
- C. dd
- D. iconv
- E. utf2utf

Answer: D

QUESTION 493

An administrator needs to sync the hardware clock with their system clock. In order to accomplish this, complete the following command:

_____ -u --systohc

Answer: hwclock, /usr/sbin/hwclock, /sbin/hwclock

QUESTION 494

What is NTP?

- A. A more secure protocol replacement for FTP.
- B. A protocol and system for maintaining time on computers.
- C. A routing aid for finding next hops on a network.
- D. A simple tunneling protocol for computers behind firewalls.

Answer: B

QUESTION 495

Which of the following commands is used on the command line to send messages to the syslog systems.

- A. lastlog
- B. klog
- C. logger
- D. slog
- E. syslog

Answer: C

QUESTION 496

According to the FHS, where are user mailboxes kept?

Assume that mail is not being delivered to somewhere in their home directories.

- A. /var/spool
- B. /etc/mail
- C. /var/mail
- D. /usr/mail

Answer: C

QUESTION 497

What command is used to print a listing of email that is currently being managed by the MTA but has not yet been delivered? (Please specify the command with or without path)

Answer: mailq, /usr/bin/mailq, sendmail -bp, /usr/sbin/sendmail -bp, /usr/lib/sendmail -bp

QUESTION 498

Please specify the top directory containing the configuration files for the CUPS printing system. (Provide the full path to the directory)

Answer: /etc/cups, /etc/cups/

QUESTION 499

The legacy program, provided by CUPS for sending files to the printer queues on the command line is:

- A. lpd
- B. lpp
- C. lpq
- D. lpr

Answer: D

QUESTION 500

What is the assigned port number for the HTTP service? (Provide the number with digits and not as a word)

Answer: 80

QUESTION 501

An executive's ISP has given an IP block for their use.

The block is 192.168.112.64/29.

If the network administrator uses the first usable IP for the router that is installed on the executive's network, how many usable IPs are left? (Please enter the number and not a word)

Answer: 5

QUESTION 502

Which of the following is the purpose of the nsswitch.conf file?

- A. It is used to configure where the C library looks for system information such as host name services and user passwords.
- B. It is used to configure network protocol port numbers such as for HTTP or SMTP.
- C. It is used to configure LDAP authentication services for the local system.

D. It is used to configure which network services will be turned on during the next system reboot.

Answer: A

QUESTION 503

Identify the statement that would create a default route using a gateway of 192.168.1.1.

- A. netstat -add default gw 192.168.1.1
- B. route add default gw 192.168.1.1
- C. ip route default 192.168.1.1
- D. route default gw 192.168.1.1
- E. ifconfig default gw 192.168.1.1 eth0

Answer: B

QUESTION 504

An administrator can run the _____ command to see active network and UNIX domain socket connections as well as other open files. (Please specify the command with no path information, options or parameters)

Answer: lsof, /usr/bin/lsof

QUESTION 505

Which of the following commands can deconfigure a network interface?

- A. ipdown
- B. net
- C. ifconfig
- D. netdown

Answer: C

QUESTION 506

Which of the following commands manipulates the TTL (Time to Live) field in the IP protocol in order to get ICMP responses from gateways along the path to a host?

- A. dig
- B. host
- C. ping
- D. tcpdump
- E. traceroute

Answer: E

QUESTION 507

Which of the following commands is used to set restrictions on the size of a core file that is created for a user when a program crashes?

- A. core
- B. edquota
- C. ulimit
- D. quota

Answer: C

QUESTION 508

Which of the following configurations file does sudo read when determining if a user is permitted to run applications with root privileges?

- A. /etc/audit.conf
- B. /etc/shadow
- C. /etc/sudo.conf
- D. /etc/sudoers

Answer: D

QUESTION 509

The xinetd service will be used instead of inetd.

In order to create a similar configuration as inetd, what main file must be created or edited for xinetd? (Please specify the full path)

Answer: /etc/xinetd.conf

QUESTION 510

When generating new authentication keys with SSH for a user, where should the private key be kept?

- A. On any trusted system from which the user will login.
- B. On a CD-ROM or USB stick.
- C. Printed and kept in a secure place.
- D. Only on the computer where the key was created.
- E. SSH does not use private keys.

Answer: A

QUESTION 511

By default, the contents of which directory will be copied to a new user's home directory when the account is created by passing the -m option to the useradd command? (Please provide the full path)

Answer: /etc/skel, /etc/skel/

QUESTION 512

Which of the following benefits does an alias in bash provide?

- A. It provides faster lookups for commands in the system directory.
- B. It creates a local copy of a file from another directory.
- C. It hides what command you are running from others.
- D. It allows a string to be substituted for the first word of a simple command.

Answer: D

QUESTION 513

An administrator is looking into a new script they received from a senior executive.

In the very first line the administrator notices a #! followed by a file path.

This indicates that:

- A. the file at that location was used to make the script.
- B. this script provides identical functionality as the file at that location.
- C. this script will self-extract into a file at that location.
- D. the program at that location will be used to process the script.

Answer: D

QUESTION 514

What word is missing from the following SQL statement?
_____ count(*) from tablename;

Answer: select, SELECT

QUESTION 515

Why is the xhost program considered dangerous to use?

- A. It makes it difficult to uniquely identify a computer on the network.
- B. It allows easy access to your X server by other users.
- C. It logs sensitive information to syslog.
- D. It makes your computer share network resources without any authentication.
- E. It is a graphical DNS tool with known exploits.

Answer: B

QUESTION 516

What is the name of the simple graphical login manager that comes with a vanilla X11 installation? (Provide only the name of the program without any path information)

Answer: xdm

QUESTION 517

What command will display the group names and GIDs to which a user belongs? (Provide only the command name with or without path information)

Answer: id, /usr/bin/id

QUESTION 518

Of the ways listed, which is the best method to temporarily suspend a user's ability to interactively login?

- A. Use passwd -d username to give the user an empty password.
- B. Use chage to expire the user account.
- C. Change the user's password.
- D. Add the command exit to the user's .login file.

Answer: B

QUESTION 519

Which of the following is the conventional purpose of Linux UIDs that are lower than 100?

- A. They are reserved for super user accounts.

- B. They are reserved for the system admin accounts.
- C. They are reserved for system accounts.
- D. They are unused, aside from 0, because they are targets of exploits.
- E. They are used to match with GIDs in grouping users.

Answer: C

QUESTION 520

How is the file format of /etc/crontab different from a normal crontab file? (Select TWO).

- A. The /etc/crontab file can specify a year field.
- B. A normal crontab file must be installed with the crontab command.
- C. A normal crontab file allows for environment variable substitution.
- D. The /etc/crontab file has a user field for commands.

Answer: BD

QUESTION 521

Which of the following is the main difference between the batch and at commands?

- A. The batch command will run multiple times.
The at command will only run once.
- B. The batch command will run when system load is low.
The at command runs at a specific time.
- C. The at command reads commands from standard input.
The batch command requires a command line argument.
- D. The at command emails results to the user.
The batch command logs results to syslog.

Answer: B

QUESTION 522

The correct crontab entry to execute the script chklog three times per month between 3 p.m. and 5 p.m.:

- A. * 3, 4, 5 1 * * chklog
- B. 3 3, 4, 5 1 * * chklog
- C. 3 15, 16, 17 * * * chklog
- D. 0 15, 16, 17 1 * * chklog
- E. * 15, 16, 17 1 * * chklog

Answer: D

QUESTION 523

On a dual boot system, every time the system is booted back into Linux the time has been set backward by one day.

Which of the following commands will correct the problem?

- A. `date -d '+ 1 day'`
- B. `hwclock --systohc --localtime`
- C. `ntpdate pool.ntp.org`

D. time hwclock

Answer: B

QUESTION 524

Which of the following commands should be used to print a listing of email in the system's mail queue?

- A. lpq
- B. mailq
- C. mlq
- D. sendmail -l

Answer: B

QUESTION 525

After configuring printing on a Linux server, the administrator sends a test file to one of the printers and it fails to print.

What command can be used to print the status of the printer's queue? (Provide only the command, without any options or parameters)

Answer: lpq, /usr/bin/lpq

QUESTION 526

An ISP has given an executive an IP block for their use.

The block is 192.168.112.64/27. If the network administrator uses the first usable IP for the router that is installed on the executive's network, how many usable IPs are left? (Please enter the number and not a word)

Answer: 29

QUESTION 527

Which of the following statements is true regarding the following /etc/resolv.conf file?

```
search example.com
nameserver 208.77.188.166
nameserver 208.77.188.167
```

- A. There is a syntax error.
- B. If DNS queries to the localhost fail, the server 208.77.188.166 will be queried.
- C. example.com will be appended to all host lookups.
- D. example.com will be appended to host names when they do not contain dots.
- E. The DNS server with the shortest ping time will be queried first. If the lookup fails, the second server will be queried.

Answer: D

QUESTION 528

The _____ command is used to assign an IP address to a device. (Please specify the command with or without path information)

Answer: ifconfig, /sbin/ifconfig, ip, /sbin/ip

QUESTION 529

The _____ command is used to send ICMP ECHO_REQUEST datagrams to a single host or gateway. (Provide only the command name with or without path information)

Answer: ping, /bin/ping

QUESTION 530

An administrator suspects that a gateway machine on the network has failed but they are unsure which machine.

Which of the following commands will help locate the problem?

- A. ps
- B. netstat
- C. nslookup
- D. ifconfig
- E. traceroute

Answer: E

QUESTION 531

When searching for files owned by the root user, which option is required in the following command line:

find . _____ 0 -print

(Provide only the missing argument)

Answer: uid, -uid

QUESTION 532

Which file contains a set of services and permitted hosts that will be allowed to connect to the server by going through a TCP Wrapper program such as tcpd? (Please enter the full path)

Answer: /etc/hosts.allow

QUESTION 533

Which of the following commands is used to hold keys during a login session to be used for automatic authentication while logging in to other machines using ssh?

- A. sshd
- B. ssh-agent
- C. ssh-keygen
- D. ssh-add

Answer: B

QUESTION 534

What keyword is missing from this code sample of a shell script?

```
____ i in *.txt; do  
echo $i  
done
```

- A. for
- B. loop
- C. until
- D. while

Answer: A

QUESTION 535

Which of the following bash options 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 536

What command can be used to generate syslog entries of any facility and priority? (supply just the command name without a path).

Answer: logger

QUESTION 537

Which of the following is NOT contained in the locale setting of the operating system?

- A. Currency symbol
- B. Language
- C. Timezone
- D. Thousands separator

Answer: C

QUESTION 538

Which of the following commands will print the exit value of the previous command to the screen in bash?

- A. `echo $?`
- B. `echo $#`
- C. `echo $exit`
- D. `echo $status`
- E. `echo $&}`

Answer: A

QUESTION 539

The system's timezone may be set by linking /etc/localtime to an appropriate file in which directory? (Provide the full path to the directory, without any country information).

Answer: /usr/share/zoneinfo, /usr/share/zoneinfo/

QUESTION 540

Which of the following is NOT a Mail Transport Agent?

- A. `exim`

- B. postfix
- C. sendmail
- D. qmail
- E. mail

Answer: E

QUESTION 541

A senior executive asked an administrator to change the default background of the executive's machine, which uses XDM.

Which of the following files would the administrator edit to achieve this?

- A. /etc/X11/xdm/Xsetup
- B. /etc/X11/xdm.conf
- C. /etc/X11/xdm/Defaults
- D. /etc/X11/defaults.conf

Answer: A

QUESTION 542

With IPv6, how many bits have been used for the host identifier portion of an address? (Please enter the number and not a word)

Answer: 64

QUESTION 543

When attempting to send a file to another user securely with GPG, which of the following actions must be done?

- A. Encrypt the file using your public key.
- B. Encrypt the file using their public key.
- C. Encrypt the file using your private key.
- D. Encrypt the file using their private key.
- E. Sign the file with your public key.

Answer: B

QUESTION 544

Which IP protocol is connectionless and unreliable? (Please enter only a single answer and do not enter duplicate answers in this field.)

Answer:

UDP
UDP/IP

QUESTION 545

In xorg.conf, which of the following sections is concerned with fonts?

- A. The Fonts section
- B. The Files section
- C. The xfsCodes section
- D. The Graphics section

E. The modeline section

Answer: B

QUESTION 546

In an xinetd config file, what attribute specifies the network address that will be used to offer the service? (Please enter only one answer and do not enter duplicate answers in this field.)

Answer: INTERFACE

QUESTION 547

Which of the following outputs will the below command sequence produce? echo '1 2 3 4 5 6' | while read a b c; do echo result: \$c \$b \$a; done

- A. result: 3 4 5 6 2 1
- B. result: 1 2 3 4 5 6
- C. result: 6 5 4
- D. result: 6 5 4 3 2 1
- E. result: 3 2 1

Answer: A

QUESTION 548

The _____ command is used to print the network connections, routing tables, and interface statistics. (Please enter only a single command and do not enter duplicate answers in this field.)

Answer:

/BIN/NETSTAT
/SBIN/IP
IP
NETSTAT

QUESTION 549

X is running okay but an administrator is concerned that the correct color depth set is not configured. Which of the following commands will show the administrator the running color depth while in X?

- A. xcd
- B. xcdepth
- C. xwininfo
- D. xcolordepth
- E. cat /etc/X11

Answer: C

QUESTION 550

Which of the following words is used to restrict the records that are returned from a SELECT query based on supplied criteria for the values in the records?

- A. LIMIT
- B. FROM
- C. WHERE

D. IF

Answer: C

QUESTION 551

Which of the following outputs 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 552

The _____ command is used to assign an IP address to a device. (Please specify a single command with or without path information)

Answer:

/sbin/ifconfig
/sbin/ip
ifconfig
ip

QUESTION 553

Which of the following is the purpose of the Sticky Keys feature in X?

- A. To assist users who have difficulty holding down multiple keys at once
- B. To prevent repeated input of a single character if the key is held down
- C. To ignore brief keystrokes according to a specified time limit
- D. To repeat the input of a single character

Answer: A

QUESTION 554

Which of the following commands can be used to activate a specific network interface?

- A. ipup
- B. net
- C. ifup
- D. netup

Answer: C

QUESTION 555

An administrator is looking into a new script that they have just received from a senior administrator. In the very first line the administrator notices a #! followed by a path to a binary. Linux will:

- A. ignore the script.
- B. use that binary to interpret the script.
- C. use that binary to compile the script.

D. be replaced by that binary.

Answer: B

QUESTION 556

Which of the following commands should be used to print a listing of emails in the system's mail queue?

- A. sendmail -l
- B. lpq
- C. mailq
- D. mlq

Answer: C

QUESTION 557

Given the following line from /etc/nsswitch.conf: hosts: files mdns4_minimal [NOTFOUND=return] dns mdns4 By default, which file will be queried first for hostname lookups? (Provide the full path and filename).

Answer: /ETC/HOSTS

QUESTION 558

What command can be used to generate log entries of any facility and priority? (Supply just the command name without a path).

Answer: LOGGER

QUESTION 559

Each entry in a crontab must end with which of the following characters?

- A. tab
- B. space
- C. backslash
- D. newline

Answer: D

QUESTION 560

What argument to the -name flag of find will match files or directories beginning with a '.' (period)?

Answer: .*

QUESTION 561

To exclude all log messages of a given logging facility, an administrator should use a logging priority of ____.

Answer: NONE

QUESTION 562

A department decided to change the Gnome Display Manager's greeting. Which of the following configuration files should an administrator edit?

- A. /etc/gnome/greeting
- B. /opt/gnome/share/greeting
- C. /etc/X11/gmd.conf
- D. /etc/X11/gdm/Init/Default

Answer: D

QUESTION 563

Which of the following are commonly used Mail Transfer Agent (MTA) applications? (Select THREE).

- A. postfix
- B. procmail
- C. sendmail
- D. exim
- E. smtpd

Answer: ACD

QUESTION 564

Which file lists which users can execute commands using sudo? (Provide the full path and filename).

Answer: /ETC/SUDOERS

QUESTION 565

Which file contains a list of services and hosts that will be denied by a TCP Wrapper such as tcpd? (Please enter the full path).

Answer: /ETC/HOSTS.DENY

QUESTION 566

On a dual boot system, every time the system is booted back into Linux the time has been set backward by two hours. Which of the following commands will correct the problem so it will not occur again?

- A. ntpdate pool.ntp.org
- B. date -d 'two hours'
- C. hwclock --hctosys --localtime
- D. time hwclock

Answer: C

QUESTION 567

Which of the following files, when using Sendmail or a similar MTA system, will allow a user to redirect all their mail to another address and is configurable by the user themselves?

- A. /etc/alias
- B. /etc/mail/forwarders
- C. ~/.alias
- D. ~/.forward

Answer: D

QUESTION 568

A senior executive asked an administrator to change the default background of the executive machine, which uses XDM. Which of the following filesA senior executive asked an administrator to change the default background of the executive? machine, which uses XDM. Which of the following files would the administrator edit to achieve this?

- A. /etc/X11/xdm/Xsetup
- B. /etc/X11/xdm.conf
- C. /etc/X11/xdm/Defaults
- D. /etc/X11/defaults.conf

Answer: A

QUESTION 569

Which of the following should be backed up before a Samba version upgrade? (Select TWO.)

- A. Libraries
- B. TDB files
- C. Configuration files
- D. Binaries
- E. winbindd_privileged directory

Answer: BC

QUESTION 570

How is VFS (Virtual File System) support enabled in Samba?

- A. Samba does not support VFS.
- B. Compile and load vfs.ko kernel module.
- C. Compile and load vfs.ko and its dependent smbfs kernel modules.
- D. Compile and load pvfs.ko kernel module.
- E. Compile Samba with VFS module support.

Answer: E

QUESTION 571

Which command from the Samba Suite is used to retrieve information on the mapping between NetBIOS names and IP addresses?

Answer: NMBLOOKUP

QUESTION 572

Which of the following commands will mount a remote Samba share when the user is Winuser and the password is somepass?

- A. mount -t smbfs -o username=Winuser,password=somepass //SERVER/share /media/sambashare
- B. mount -t smbfs -o username=Winuser,password=somepass \\SERVER\share /media/sambashare
- C. mount -t smbfs -o Winuser%somepass //SERVER/share /media/sambashare
- D. mount -t smbfs -o username=Winuser%somepass //SERVER/share /media/sambashare

Answer: A

QUESTION 573

After installing a network with one Samba server and several clients, users are complaining that they receive an Unable to browse the network error when trying to visit a public share. What is the most likely cause of this?

- A. The user entered the wrong username and/or password.
- B. The nmbd process is not running on the Samba server.
- C. The user hasn't mapped the share to a local drive letter yet.
- D. The Samba server is not configured as a Domain Master Browser.

Answer: B

QUESTION 574

Which node type will use only NetBIOS broadcast requests using UDP broadcast?

- A. b-node (type 0x01)
- B. p-node (type 0x02)
- C. m-node (type 0x04)
- D. h-node (type 0x08)

Answer: A

QUESTION 575

Which port must be open in a firewall to allow access to rdesktop?

Answer: 3389

QUESTION 576

Which port is used for "NetBIOS-less" SMB traffic?

Answer: 445

QUESTION 577

A _____ server stores NetBIOS names and IP addresses of SMB/CIFS clients.

Answer: WINS

QUESTION 578

By default, Windows XP requires that passwords on your Samba server:

- A. Do not exceed 32 characters.
- B. Contain both numbers and letters.
- C. Are encrypted.
- D. Are changed every 30 days.

Answer: C

QUESTION 579

When setting up roaming profiles in a Windows network which includes Windows 98 desktops, which Samba parameter must be set?

- A. logon drive

- B. logon home
- C. logon path
- D. logon script

Answer: B

QUESTION 580

What DHCP option can be set on a ISC DHCP server to tell NETBIOS clients that the WINS server has the IP address 192.168.1.2?

- A. option netbios-wins-servers 192.168.1.2;
- B. option wins-netbios-servers 192.168.1.2;
- C. option wins-name-servers 192.168.1.2;
- D. option netbios-name-servers 192.168.1.2;

Answer: D

QUESTION 581

Which of the following development libraries are used to make Samba compatible with ADS? (Select TWO correct answers.)

- A. Kerberos
- B. CUPS
- C. LDAP
- D. Win32
- E. IMAP

Answer: AC

QUESTION 582

Which smb.conf configuration keyword determines the hostname resolution order?

- A. use ads
- B. name resolve order
- C. use nsswitch.conf
- D. use resolv.conf

Answer: B

QUESTION 583

What is the meaning of a NetBIOS hybrid node (h-node) type client?

- A. Client performs a broadcast and does not query WINS.
- B. Client queries WINS first, and then broadcasts.
- C. Client broadcasts first, and then queries WINS.
- D. Client only queries WINS and does not broadcast.
- E. Client only queries lmhost local file.

Answer: B

QUESTION 584

Which of the following statements are true when creating NETBIOS names? (Select TWO correct answers.)

- A. NETBIOS names can only use alphanumeric characters.
- B. You can use a '.' in a NETBIOS name.
- C. You can use an '_' (underscore) in a NETBIOS name.
- D. NETBIOS names must be UPPERCASE
- E. NETBIOS names can be a maximum of 32 characters

Answer: BC

QUESTION 585

Which command would create a machine account in Active Directory under the Computers\BusinessUnit\Department\Servers organizational unit?

- A. net rpc join -m localhost -
ldap="ldap.ldapserver.com:Computers\BusinessUnit\Department\Servers"
- B. rpcclient -c "join Computers\BusinessUnit\Department\Servers"
- C. net ads join ou="Computers\BusinessUnit\Department\Servers"
- D. net ads join "Computers\BusinessUnit\Department\Servers"

Answer: D

QUESTION 586

In which section of the smb.conf configuration file is the logon script declared?

- A. [homes]
- B. [netlogon]
- C. [global]
- D. [profiles]

Answer: C

QUESTION 587

Which of the following commands would you run to add your machine to an NT4 domain?

- A. net rpc join -S PDC -UAdministrator%password
- B. net ads join -s PDC -UAdministrator%password
- C. net rpc join -s PDC -UAdministrator%password
- D. net ads join -W PDC -nAdministrator%password

Answer: A

QUESTION 588

When migrating files from a Windows server A to a Samba server B with the command 'net rpc share migrate files -S A -destination=B -acls -attrs -U administrator', some files that originally belong only to a Windows group (no user) will generate errors during the migration. Which option in smb.conf will force such files to be mapped to the correct UNIX UID and GID?

- A. use acl = yes
- B. map group acls = yes
- C. force unknown acl user = yes

D. inherit acls = no

Answer: C

QUESTION 589

When no WINS server is present, all name registrations and lookups are done by UDP _____.

- A. broadcast
- B. multicast
- C. unicast
- D. None of the above.

Answer: A

QUESTION 590

Which are the FOUR parameters (in the correct order) to be set in the name resolve order directive, to use the following name resolution order?

1. Use lmhosts file entries
2. Use a server specified in the 'wins server' directive Use broadcast
3. Use default DNS lookup

Answer: LMHOSTSWINSBCASTHOST

QUESTION 591

It is desired to restrict access to the [IPC\$] share to one specific machine. The setting hosts allow = 192.168.0.3 is added to the share configuration. Later it is discovered that other workstations may still access it. What setting was forgotten in the share configuration? (Enter the parameter and any options or values)

Answer:

HOSTSDENY=0.0.0.0/0,HOSTSDENY=0.0.0.0/0,HOSTSDENY=0.0.0.0/0,HOSTSDENY=0.0.0.0/0,
DENYHOSTS=0

QUESTION 592

The response times on a Samba server are gradually increasing, so it is decided to experiment with various socket options in smb.conf. Which of the following are valid values for this parameter? (Choose THREE correct answers)

- A. TCP_NODELAY
- B. SO_NOBROADCAST
- C. SO_TXBUF
- D. IPTOS_LOWDELAY
- E. SO_KEEPALIVE

Answer: ADE

QUESTION 593

The _____ parameter in the smb.conf file will set hidden files in Linux to also be hidden in windows. (Please specify ONLY the parameter with no value assignment.)

Answer: HIDE DOTFILES

QUESTION 594

There are multiple network interfaces on a server. Which parameters must you set in smb.conf to limit on which interfaces Samba will accept connections? (Choose TWO correct answers)

- A. listen interfaces
- B. bind interfaces only
- C. interfaces
- D. listen address

Answer: BC

QUESTION 595

Users are reporting that they can access all user home directories on the server in addition to their own. What value must be added to the valid users parameter in the [homes] section of smb.conf to disallow this behaviour? (Enter only the required value, do not include the parameter name)

Answer: %S

QUESTION 596

The following output is generated when trying to obtain tickets from the Kerberos realm: # kinit user@SUB.DOMAIN.BIZ Password for user@SUB.DOMAIN.BIZ kinit(v5): Clock skew too great while getting initial credentials How can the problem be fixed? (Select TWO.)

- A. ntpdate domaincontroller; hwclock -systohc
- B. kinit -t
- C. killall -HUP krb5kdc
- D. Modify the time_sync value in the kdc.conf file.
- E. Modify the clockskew value in the krb5.conf file.

Answer: AE

QUESTION 597

Which of the following is true about the following share access properties? (Select TWO.)
[projects]path = /data/projects read only = noadmin users = timo, taki, +managers

- A. +managers will be resolved as a Winbind group.
- B. The timo and taki users can manipulate files regardless of the file system permissions.
- C. +managers will be resolved as a Unix group.
- D. +managers is a builtin default Samba group.
- E. The "admin users" can be applied only to print shares.

Answer: BC

QUESTION 598

In /etc/smbldap-tools/ which file contains the DN and password for the LDAP manager?

- A. smbldap.conf
- B. ldap.conf
- C. smbldap_bind.conf
- D. slapd.conf

Answer: C

QUESTION 599

Which option below shows the correct command line to list the shares exported by the Samba server called NAME?

- A. smbcontrol -L
- B. smbclient -N NAME
- C. smbclient -L NAME
- D. smbmount -L NAME

Answer: C

QUESTION 600

In the smb.conf configuration file, which pair may be used as a boolean value?

- A. yes/no
- B. true/false
- C. 0/1
- D. Any of the above.

Answer: D

QUESTION 601

Samba cannot be a Backup Domain Controller for an NT4 PDC because:

- A. Samba 3 implements 128-bit encryption, which is unsupported by an NT4 PDC.
- B. the native NT4 SAM replication protocols have not yet been fully implemented.
- C. the database backends used by each server are incompatible.
- D. the Samba team does not want to encourage the use of a Windows server as a PDC.

Answer: B

QUESTION 602

Which command executes a recursive download of the src share located in a Samba server named SOURCES, assuming that this server allows anonymous users? (Specify the command and any arguments and parameters.)

Answer: SMBGET-RSMB://SOURCES/SRC

QUESTION 603

A Samba server needs to determine the SID of an existing domain called FOO. Complete the command below which on the Samba server that will achieve this result: net rpc _____ FOO

Answer: GETSID

QUESTION 604

How is the user user01 from DOMA granted the right to manage printers in the Samba print server?

- A. net ads rights 'DOMA\user01' +SePrintOperatorPrivilege
- B. net -S server -U domadmin rpc rights grant 'DOMA\user01' SePrintOperatorPrivilege
- C. pdbedit -user=user01 -l=DOMA -policies=SePrintOperatorPrivilege
- D. pdbedit DOMA\user01 +PrintOperator
- E. cupsaddsmb DOMA\user01 +PrintOperator

Answer: B

QUESTION 605

When using a localized installation of Windows - such as Japanese or Chinese - the names of files which are stored on the server do not display correctly in Windows Explorer. Which parameters in smb.conf should be checked? (Choose TWO correct answers)

- A. unix charset
- B. display charset
- C. dos charset
- D. windows charset
- E. Unicode

Answer: AC

QUESTION 606

After updating the smb.conf file, it is a good idea to run the _____ command before restarting the Samba service. (Enter the command only with no path information.)

Answer: TESTPARM

QUESTION 607

What command (excluding path information) will display the compile time options for Samba. Please include all options.

Answer: SMBD-B

QUESTION 608

Which command will list the shares on the workstation with the NetBIOS name officepc and IP address 192.168.0.3?

- A. smbclient -L -I 192.168.0.3
- B. smbclient -L officepc
- C. smbclient -l -n officepc
- D. smbclient -list -I 192.168.0.3

Answer: B

QUESTION 609

In which section of smb.conf should the path to the domain policy file be declared?

- A. [netlogon]
- B. [homes]
- C. [profiles]
- D. [policy]

Answer: A

QUESTION 610

If logon drive = H: is set in the Samba main configuration file, the server will automatically map the home directory for each user to the drive H: as soon as logon is executed. What is the equivalent command for this directive in a logon script?

Answer: NETUSEH:/HOME

QUESTION 611

Which smbldap-tools configuration files require modification before using the TOOLS? (Select THREE correct answers.)

- A. smbldap.conf
- B. smbldap_tools.pm
- C. ldap.conf
- D. smb.conf
- E. smbldap_bind.conf

Answer: ABE

QUESTION 612

A new Samba server (Version 3) has been setup with a brand new colour laser printer. The printer is attached to the parallel port and is setup using CUPS. What share must you setup in your smb.conf file to allow client computers to download the new drivers?

- A. [printers]
- B. [print\$]
- C. [printer\$]
- D. [cups\$]

Answer: B

QUESTION 613

The SAMBADOM domain has been added as a trusted account to an existing domain called WIN3K. Which command should be run on the Samba server in order to establish the trusted relationship to the WIN3K domain?

- A. net rpc trustdom add WIN3K
- B. net rpc addtrust WIN3K
- C. net rpc trustdom establish WIN3K
- D. net rpc trustdom establish SAMBA

Answer: C

QUESTION 614

By default, on what port does SWAT listen?

Answer: 901

QUESTION 615

By specifying the _____ parameter in smb.conf and assigning it an appropriate value, Samba will create Machine Trust Accounts automatically when the client joins the domain.

Answer: ADDMACHINESCRIPT

QUESTION 616

Which command typed on a Samba 3 server will print out the local SID?

- A. net get sid localhost
- B. net getlocalsid
- C. net getsid
- D. net rpc get localsid

Answer: B

QUESTION 617

What command will test the file /root/smb.conf for internal correctness? (Enter the command and any required options or parameters)

Answer: TESTPARM/ROOT/SMB.CONF

QUESTION 618

When a Windows domain controller is used, which of the following is assigned a Windows Security Identifier?

- A. Users
- B. Servers
- C. Groups
- D. Only A and C above
- E. All of the above

Answer: E

QUESTION 619

The command _____ is used on a Samba 3 server to modify the SSID in an existing NT profile file called NTUser.DAT.

Answer: PROFILES

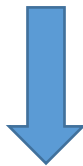
QUESTION 620

What must be done to allow only users of the devel system group to access a share?

- A. In the smb.conf file, set valid users = @devel
- B. In the smb.conf file, set valid groups = @devel
- C. In the smb.conf file, set valid groups = devel
- D. chgrp the directory on the Samba server to the devel group, and then set the GID bit on the directory.

Answer:

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