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202-450

202-450

Linux Professional Institute

Version 2.1

Exam A (119 questions)

Question 1

The content of which local file has to be transmitted to a remote SSH server in order to be able to log into the remote server using SSH keys?

~/.ssh/authorized_keys~/.ssh/config~/.ssh/id_rsa.pub

~/.ssh/id_rsa.put.

□ ~./ssh/known_hosts

Explanation:

Reference: https://www.digitalocean.com/community/tutorials/ssh-essentials-working-with-ssh-servers-clients-and-keys

Question 2

When trying to reverse proxy a web server through Nginx, what keyword is missing from the following configuration sample?

location / {
 _____http://proxiedserver:8080;
}

□ remote_proxy
□ reverse_proxy
□ proxy_reverse
□ proxy_pass
□ forward_to

Question 3

Which of the following commands can be used to connect and interact with remote TCP network services? (Choose two.)

□ nettalk

≥ nc

▼ telnet

□ cat
□ netmap

A host, called Ipi, with the MAC address 08:00:2b:4c:59:23 should always be given the IP address of 192.168.1.2 by a DHCP server running ISC DHCPD.

Which of the following configurations will achieve this?

```
host lpi {
      hardware-ethernet 08:00:2b:4c:59:23;
      fixed-address 192.168.1.2;
}
    host lpi {
         mac=08:00:2b:4c:59:23;
          ip=192.168.1.2;
    }
host lpi = 08:00:2b:4c:59:23 192.168.1.2
host lpi {
      hardware ethernet 08:00:2b:4c:59:23;
      fixed-address 192.168.1.2;
}
host lpi {
     hardware-address 08:00:2b:4c:59:23;
     fixed-ip 192.168.1.2;
}
```

Question 5 What is the purpose of DANE? Verify the integrity of name information retrieved via DNS. Allow secure dynamic DNS updates. Invalidate name information stored on caching name servers to speed up DNS updates. Discover which servers within a DNS domain offer a specific service. × Provide a way to verify the association of X 509 certificates to DNS host names. **Explanation:** Reference: https://wiki.archlinux.org/index.php/DANE **Question 6** Which of the following values can be used in the OpenLDAP attribute olcBackend for any object of the class olcBackendConfig to specify a backend? (Choose three.)

Question 7

X

X

×

xml

bdb

Idap

text

passwd

Which command is used to administer IPv6 netfilter rules?

ш	iptables
	iptablesv6
	iptables6
×	ip6tables
	ipv6tables

the Arella Land

Explanation:

Reference: https://www.centos.org/docs/5/html/5.1/Deployment_Guide/s1-ip6tables.html

Question	8
	tion can be found in the file specified by the status parameter in an OpenVPN server file? (Choose two.)
	Errors and warnings generated by the openvpn daemon Routing information Statistical information regarding the currently running openvpn daemon A list of currently connected clients A history of all clients who have connected at some point
Question	9
Which of the f domain?	following Samba services handles the membership of a file server in an Active Directory
	winbindd nmbd msadd admemb samba
Question	10
	nation will a route appear in the Linux routing table after activating IPv6 on a router's face, even when no global IPv6 addresses have been assigned to the interface?
	fe80::/10 0::/128 0::/0 fe80::/64

2000::/3

FILL BLANK

According to this LDIF excerpt, which organizational unit is Robert Smith part of? (Specify only the organizational unit.)

```
dn: cn=Robert Smith, ou=people, dc=example, dc=com
objectclass: inetOrgPerson
cn: Robert Smith
cn: Robert J Smith
cn: bob smith
sn: smith
uid: rjsmith
userpassword: rJsmitH
carlicense: HISCAR 123
homephone: 555-111-2222
mail: r.smith@example.com
mail: rsmith@example.com
mail: bob.smith@example.com
description: swell guy
```

Question 12

Which of the following DNS record types is used for reverse DNS queries?

	CNAME
	IN
×	PTR
	REV
П	RIN

Explanation:

Reference: http://help.dnsmadeeasy.com/managed-dns/dns-record-types/ptr-record/

Question 13

Which netfilter table contains built-in chains called INPUT, OUTPUT and FORWARD?

	ipconn
×	filter
	nat
	defaul
	masq
Explanation:	

Reference: http://shorewall.org/NetfilterOverview.html
--

Wh	nich	of the	e followii	ng inf	ormatic	n has	s to b	e sub	mitte	d to a	a cer	tifica	tion	autho	rity i	n o	rder	to
rec	ues	t a we	eb server	certi	ficate?													

☐ The web server's private key.

☐ The IP address of the web server.

 \Box The list of ciphers supported by the web server.

☐ The web server's SSL configuration file.

☑ The certificate signing request.

Explanation:

Reference: https://help.ubuntu.com/lts/serverguide/certificates-and-security.html.en

Question 15

Which of the following statements in the ISC DHCPD configuration is used to specify whether or not an address pool can be used by nodes which have a corresponding host section in the configuration?

_	identified-nodes	

- □ unconfigured-hosts
- □ missing-peers
- □ unmatched-hwaddr
- unknown-clients

Question 16

FILL BLANK

In order to specify alterations to an LDAP entry, what keyword is missing from the following LDIF file excerpt?

dn:	cn=Some	Person,	dc=example,	dc=com
chai	ngetype:			

keyword only and no other information.

Specify the

Question 17 Which Apache HTTPD directive enables HTTPS protocol support? HTTPSEngine on X SSLEngine on SSLEnable on HTTPSEnable on StartTLS on **Question 18** After running ssh-keygen and accepting the default values, which of the following files are changed or created? (Choose two.) ~/.ssh/id_rsa.key × ~/.ssh/id_rsa.pub ~/.ssh/id_rsa.prv ~/.ssh/id_rsa.crt × ~/.ssh/id_rsa **Explanation**: Reference: https://www.ssh.com/ssh/keygen/ **Question 19** With fail2ban, what is a 'jail'?

	A netfilter rules chain blocking offending IP addresses for a particular service
	A group of services on the server which should be monitored for similar attack
patterr	ns in the log files
×	A filter definition and a set of one or more actions to take when the filter is matched
	The chroot environment in which fail2ban runs
11	

Explanation:

Reference: https://docs.plesk.com/en-US/onyx/administrator-guide/server-administration/protection-against-brute-force-attacks-fail2ban/fail2ban-jails-management.73382/

Question 20 Which of the following Samba configuration parameters is functionally identical to the parameter read only=yes? browseable=no read write=no × writeable=no write only=no write access=no **Question 21** Which option in named.conf specifies which host are permitted to ask for domain name information from the server? allowed-hosts accept-query permit-query × allow-query query-group Question 22 Which of the following types of IPv6 address assignments does DHCPv6 support? (Choose three.) X Assignments of normal IPv6 addresses that can be renewed. × Assignments of temporary IPv6 addresses that cannot be renewed. Assignments of blacklisted IPv6 addresses that should no longer be used. X Assignments of IPv6 prefixes that can be used for routing or further assignments. Assignments of anonymous IPv6 addresses whose assignment is not logged by the DHCPv6 server. Question 23 To allow X connections to be forwarded from or through an SSH server, what configuration keyword

must be set to yes in the sshd configuration file?

	AllowForwarding
	ForwardingAllow
	XIIForwardingAllow
×	XIIForwarding

XIIFOrwarding

Explanation:

Reference: https://help.ubuntu.com/community/SSH/OpenSSH/Configuring

Question 24 Select the alternative that shows the correct way to disable a user login for all users except root. The use of the pam_block module along with the /etc/login configuration file. The use of the pam_deny module along with the /etc/deny configuration file. The use of the pam_pwdb module along with the /etc/pwdv.conf configuration file. × The use of the pam_nologin module along with the /etc/nologin configuration file. **Question 25** Which FTP names are recognized as anonymous users in vsftp when the option anonymous enable is set to yes in the configuration files? (Choose two.) × anonymous × ftp In the described configuration, any username which neither belongs to an existing user nor has another special meaning is treated as anonymous user. nobody guest **Explanation:** Reference: http://vsftpd.beasts.org/vsftpd_conf.html#lbAE **Question 26** What option in the client configuration file would tell OpenVPN to use a dynamic source port when making a connection to a peer? src-port remote source-port × nobind dynamic-bind **Question 27**

Which of the following statements is true regarding the NFSv4 pseudo file system on the NFS server?

	It must be called /exports
×	It usually contains bind mounts of the directory trees to be exported
	It must be a dedicated partition on the server
	It is defined in the option Nfsv4-Root in /etc/pathmapd.conf
	It usually contains symlinks to the directory trees to be exported

Which command is used to configure which file systems a NFS server makes available to clients?

■ exportfs□ mkfs.nfs□ mount□ nfsservct1□ telinit

Question 29

Which of the following options are valid in /etc/exports? (Choose two.)

rw
ro
rootsquash
norootsquash
uid

Question 30

group

What word is missing from the following excerpt of a named.conf file?

```
_____ friends {
    10.10.0.0/24; 192.168.1.0/24;
};

options {
    allow-query { friends; };
};

    networks
    net
    list
    acl
```

Question 31 What is the standard port used by OpenVPN? 1723 4500 500 × 1194 **Explanation**: Reference: https://openvpn.net/archive/openvpn-users/2006-04/msg00355.html **Question 32** Which of the following lines in the sshd configuration file should, if present, be changed in order to increase the security of the server? (Choose two.) × Protocol 2, 1 PermitEmptyPasswords no Port 22 X PermitRootLogin yes IgnoreRhosts yes **Question 33** On a Linux router, packet forwarding for IPv4 has been enabled. After a reboot, the machine no longer forwards IP packets from other hosts. The command: echo 1 > /proc/sys/net/ipv4/ip_forward temporarily resolves this issue. Which one of the following options is the best way to ensure this setting is saved across system

Add echo 1 > /proc/sys/net/ipv4/ip_forward to the root user login script

Add echo 1 > /proc/sys/net/ipv4/ip_forward to any user login script

In /etc/sysct1.conf change net.ipv4.ip_forward to 1

In /etc/sysconfig/iptables-config add ipv4.ip forward = 1

In /etc/rc.local add net.ipv4.ip_forward = 1

restarts?

X

Question 34 Which of the following commands is used to change user passwords in an OpenLDAP directory? setent Idpasswd olppasswd X Idappasswd Idapchpw **Explanation**: Reference: https://www.digitalocean.com/community/tutorials/how-to-change-account-passwordson-an-openIdap-server **Question 35** Using its standard configuration, how does fail2ban block offending SSH clients? By rejecting connections due to its role as a proxy in front of SSHD. × By modifying and adjusting the SSHD configuration. By creating and maintaining netfilter rules. By creating null routes that drop any answer packets sent to the client. By modifying and adjusting the TCP Wrapper configuration for SSHD. **Explanation:** Reference: https://www.digitalocean.com/community/tutorials/how-to-protect-ssh-with-fail2banon-centos-7 **Question 36** Which of the following nmap parameters scans a target for open TCP ports? (Choose two.) -sO -sZ × -sT -sU

×

-sS

allow-transfer

allow-slaves

allow-queries

allow-secondary

×

QUESTION	37
•	Apache HTTPD configuration has been set up to create a virtual host available at e.com and www2.example.com: *:80>
Server	Name www.example.com
Server	Name www2.example.com
Server	Admin webmaster@example.com
Docum	nentRoot /var/www/
<direc< td=""><td>ctory /srv/www/></td></direc<>	ctory /srv/www/>
	Require all granted
<td>ctory></td>	ctory>
<td>></td>	>
•	spache HTTPD correctly processed the configuration file, requests to both names are correctly. What should be changed in order to ensure correct operations?
Server Server	The configuration must be split into two VirtualHost sections since each virtual host nly have one name. The port mentioned in opening VirtualHost tag has to be appended to the Name declaration's values. Both virtual host names have to be placed as comma separated values in one Name declaration. Both virtual host names have to be mentioned in the opening VirtualHost tag. Only one Server name declaration may exist, but additional names can be declared in Alias options.
Question Which BIND o connect?	38 ption should be used to limit the IP addresses from which slave name servers may
	allow-zone-transfer

FILL BLANK

What is the name of the root element of the LDAP tree holding the configuration of an OpenLDAP server that is using directory based configuration? (Specify ONLY the element's name without any additional information.)

Question 40

Which of these tools	, without any options,	provides the most	information when	n performing DN	IS
gueries?					

×	dig
	nslookup
	host
	named-checkconf
	named-checkzone

Question 41

In the main Postfix configuration file, how are service definitions continued on the next line?

	It isn't possible. The service definition must fit on one line.
	The initial line must end with a backslash character (\).
	The following line must begin with a plus character (+).
×	The following line must begin with white space indentation.
	The service definition continues on the following lines until all of the required fields
are spe	cified.

A BIND server should be upgraded to use TSIG. Which configuration parameters should be added if the server should use the algorithm hmac-md5 and the key skrKc4DoTzi/takIIPi7JZA==?

```
TSIG server.example.com. {
     algorithm hmac-md5;
     secret "skrKc4DoTzi/takIlPi7JZA==";
     };
key.server.example.com. {
     algorithm hmac-md5;
     secret skrKc4DoTzi/takIlPi7JZA==;
     };
×
     key.server.example.com. {
     algorithm hmac-md5;
     secret "skrKc4DoTzi/takIlPi7JZA==";
     };
key.server.example.com. {
     algorithm=hmac-md5;
     secret="skrKc4DoTzi/takIlPi7JZA==";
     };
key.server.example.com.
     algorithm hmac-md5
     secret "skrKc4DoTzi/takIlPi7JZA==";
```

What option for B	SIND is required in the	ne global options t	o disable recursive	queries on the	e DNS server
by default?					

	allow-recursive-query (none;)
	allow-recursive-query off;
	recursion { disabled; };
	recursion { none; };
×	recursion no;

Question 44

After the installation of Dovecot, it is observed that the dovecot processes are shown in ps ax like this:

31248 ?	S	0:00 dovecot/imap
31253 ?	S	0:00 dovecot/imap-login

In order to associate the processes with users and peers, the username, IP address of the peer and the connection status, which of the following options must be set?

□ --with-linux-extprocnames for ./configure when building Dovecot sys.ps.allow_descriptions = 1 in sysct1.conf or /proc
 □ proc.all.show_status = 1 in sysctl.conf or /proc verbose_proctitle = yes in the Dovecot configuration
 □ process_format = "%u %l %s" in the Dovecot configuration

Performing a DNS lookup with dig results in this answer:

;; QUESTION S	ECTION:			
;5.123.168.19	2.in-addr.arpa.	IN	PTR	
;; ANSWER SEC	TION:			
5.123.168.192	.in-addr.arpa. 600	IN	PTR li	nuserv.example.net.123.168.192.in-addr.arpa
;; AUTHORITY	SECTION:			
123.168.192.i	n-addr.arpa. 600	IN	NS	linuserv.example.net.
;; ADDITIONAL	SECTION:			
linuserv.exam	ple.net. 600	IN	A	192.168.123.5
□ file	There is no . after linuse	erv.exa	mple.ne	t in the PTR record in the forward lookup zone
	There is no . after linuse	erv in tl	ne PTR r	ecord in the forward lookup zone file
X	There is no . after linuse	erv.exa	mple.ne	t in the PTR record in the reverse lookup zone
file				
	The . in the NS definition	n in the	e reverse	e lookup zone has to be removed

Question 46

FILL BLANK

What option in the sshd configuration file instructs sshd to permit only specific user names to log in to a system? (Specify ONLY the option name without any values.)

Explanation:

Reference: https://www.ssh.com/ssh/sshd_config/

Question 47

Which keyword is used in the Squid configuration to define networks and times used to limit access to the service?

×	acl
	allow
	http_allow
	permit

Explanation:

Reference: https://www.tecmint.com/configure-squid-server-in-linux/

Which configuration	parameter o	on a Postfix	server n	nodifies o	nly the s	ender	address	and n	ot the
recipient address?									

	alias_maps
	alias_rewrite_maps
×	sender_canonical_maps
	sender_rewrite_maps

Question 49

Which of these sets of entries does the following command return?

```
    Idapsearch -x "(|(cn=marie) (!(telephoneNumber=9*)))"
    □ Entries that don't have a cn of marie or don't have a telephoneNumber that begins with 9.
    □ Entries that have a cn of marie or don't have a telephoneNumber beginning with 9.
    □ Entries that have a cn of marie and a telephoneNumber that ending with 9.
    □ Entries that don't have a cn of marie and don't have a telephoneNumber beginning with 9.
    □ Entries that have a cn of marie or have a telephoneNumber beginning with 9.
```

Question 50

FILL BLANK

Which action in a Sieve filter forwards a message to another email address without changing the message? (Specify ONLY the action's name without any parameters.)

Question 51

FILL BLANK

What command creates a SSH key pair? (Specify ONLY the command without any path or parameters)

Question	<i>52</i>
Given the follo	owing Squid configuration excerpt:
cache_dir ufs .	/var/spool/squid3/ 1024 16 256
	ollowing directories will exist directly within the directory: uid3/? (Choose two.)
<u>×</u> □	0F A0 0b FF 00
Question	53
	within a Nginx server configuration section defines the file system path from which the server is retrieved?
□ □ ☑ ☑ Explanation:	location htdocs DocumentRoot root base_dir
Reference: htt	p://nginx.org/en/docs/beginners_guide.html
Question Which of the f	54 following are logging directives in Apache HTTPD? (Choose two.)
Explanation:	TransferLog CustomLog ErrorLog ServerLog VHostLog

 $Reference: http://httpd.apache.org/docs/current/mod/mod_log_config.html\\$

Which of these tools provides DNS information in the following format?

```
www.example.com has address 172.25.25.55

www.example.com has address 172.25.25.63

www.example.com has IPv6 address fdb4:8fbc:36el::101f

dig
nslookup
host
named-checkconf
named-checkzone
```

Question 56

In a PAM configuration file, which of the following is true about the required control flag?

	If the module returns success, no more modules of the same type will be invoked
	The success of the module is needed for the module-type facility to succeed. If it
returns	s a failure, control is returned to the calling application
×	The success of the module is needed for the module-type facility to succeed.
Howev	er, all remaining modules of the same type will be invoked
	The module is not critical and whether it returns success or failure is not important
	If the module returns failure, no more modules of the same type will be invoked

Question 57

When using mod_authz_core, which of the following strings can be used as an argument to Require in an Apache HTTPD configuration file to specify the authentication provider? (Choose three.)

■ method■ all□ regex□ header■ expr

Explanation:

Reference: https://httpd.apache.org/docs/2.4/mod/mod_authz_core.html

Question	า 58
Which globa client reques	I option in squid.conf sets the port number or numbers that Squid will use to listen for sts?
	port client_port http_port server_port squid_port
Question	า 59
FILL BLANK	
What comm parameters.	and displays NFC kernel statistics? (Specify ONLY the command without any path or)
Explanation:	
Reference: h	https://www.systutorials.com/docs/linux/man/8-nfsstat/
Question	า 60
FILL BLANK	
•	n in the Postfix configuration makes Postfix pass email to external destinations to P-server? (Specify ONLY the option name without any values.)
Explanation:	
Reference: h	ttps://www.linode.com/docs/email/postfix/postfix-smtp-debian7/
Question	า 61
Which of the	e following statements are true regarding Server Name Indication (SNI)? (Choose two.)
	It supports transparent failover of TLS sessions from one web server to another.

	It supports transparent failover of TLS sessions from one web server to another.
×	It allows multiple SSL/TLS secured virtual HTTP hosts to coexist on the same IP
addres	S.
	It enables HTTP servers to update the DNS of their virtual hosts' names using the
509 cer	rtificates of the virtual hosts.
	It provides a list of available virtual hosts to the client during the TLS handshake.
×	It submits the host name of the requested URL during the TLS handshake.

It has been discovered that the company mail server is configured as an open relay. Which of the
following actions would help prevent the mail server from being used as an open relay while
maintaining the possibility to receive company mails? (Choose two.)

	Restrict Postfix to only	accept e-mail for domains	hosted on this server
--	--------------------------	---------------------------	-----------------------

☐ Configure Dovecot to support IMAP connectivity

Configure netfilter to not permit port 25 traffic on the public network

Restrict Postfix to only relay outbound SMTP from the internal network

☐ Upgrade the mailbox format from mbox to maildir

Question 63

How are PAM modules organized and stored?

☐ As	plain	text	files	in /	etc/	security	y/
------	-------	------	-------	------	------	----------	----

☐ A statically linked binaries in /etc/pam.d/bin/

☐ As Linux kernel modules within the respective sub directory of /lib/modules/

☐ As shared object files within the /lib/ directory hierarchy

As dynamically linked binaries in /usr/lib/pam/sbin/

Question 64

What is DNSSEC used for?

Encrypted DNS queries between nameser	vers
---------------------------------------	------

☑ Cryptographic authentication of DNS zones

☐ Secondary DNS queries for local zones

☐ Authentication of the user that initiated the DNS query

☐ Encrypting DNS queries and answers

Question 65

Which of the following lines is valid in a configuration file in /etc/pam.d/?

×	auth	required pam_unix.so	try_first_pass nullok
	auth	try_first_pass nullok, re	quire pam_unix.so
	auth	required:pam_unix.so(t	ry_first_pass nullok)
	auth	pam_unix.so(required to	ry first pass nullok)

Explanation:

Reference: https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/6/html/managing_smart_cards/pam_configuration_files

In order to protect a directory on an Apache HTTPD web server with a password, this configuration was added to an .htaccess file in the respective directory:

AuthType Basic
AuthName "Protected Directory"
AuthUserFile /var/www/dir/ .htpasswd
Require valid-user

Furthermore, a file

/var/www/dir/ .htpasswd was created with the following content: usera:S3cr3t

Given that all these files were correctly processed by the web server processes, which of the following statements is true about requests to the directory?

×	The user usera can access the site using the password s3cr3t
	Accessing the directory as usera raises HTTP error code 442 (User Not Existent)
	Requests are answered with HTTP error code 500 (Internal Server Error)
	The browser prompts the visitor for a username and password but logins for usera do
not see	em to work
	The web server delivers the content of the directory without requesting
authen	tication

Question 67

Which http_access directive for Squid allows users in the ACL named sales_net to only access the Internet at times specified in the time_acl named sales_time?

	http_access deny sales_time sales_net
×	http_access allow sales_net sales_time
	http_access allow sales_net and sales-time
	allow http_access sales_net sales_time
	http_access sales_net sales_time

Question 68

FILL BLANK

What configuration directive of the Apache HTTPD server defines where log files are stored? (Specify ONE of the directives without any other options.)

FILL BLANK

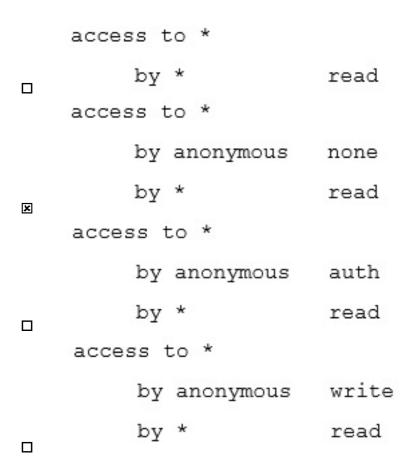
In order to export /usr and /bin via NFSv4, /exports was created and contains working bind mounts to /usr

```
and /bin. The following lines are added to /etc/exports on the NFC server:
/exports 192.0.1.0/24 (rw, sync, fsid=0, crossmnt, no_subtree_check)
/exports/usr 192.0.2.0/24 (rw, sync, fsid=0, crossmnt, no_subtree_check)
/exports/bin 192.0.2.0/24 (rw, sync, fsid=0, crossmnt, no_subtree_check)
After running
mount -t nfsv4 server:/ /mnt
```

of an NFC-Client, it is observed that /mnt contains the content of the server's /usr directory instead of the content of the NFSv4 foot folder.

Which option in /etc/exports has to be changed or removed in order to make the NFSv4 root folder appear when mounting the highest level of the server? (Specify ONLY the option name without any values or parameters.)

If there is no access directive, what is the default setting for OpenLDAP?



Question 71

Which of the following services belongs to NFSv4 and does not exist in NFSv3?

- rpc.idmapd
- □ rpc.statd
- □ nfsd
- □ rpc.mountd

Explanation:

Reference: https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/5/html/deployment_guide/ch-nfs

•	of the SSL certificate for the server?
⊠ □ □ Explanation	SSLCertificateKeyFile SSLKeyFile SSLPrivateKeyFile SSLRSAKeyFile
Reference:	https://httpd.apache.org/docs/2.4/ssl/ssl_faq.html#aboutcerts
Questic	on 73
	LDAP administrator account configured when the rootdn and rootpw directives are not he slapd.conf file?
	The default account admin with the password admin are used The account is defined by an ACL in slapd.conf The default account admin is used without a password The account is defined in the file /etc/ldap.secret The account is defined in the file /etc/ldap.root.conf
Questic	on 74
	is transitioning to a new DNS domain name and wants to accept e-mail for both domains users on a Postfix server.
Which conf	iguration option should be updated to accomplish this?
	mydomain mylocations mydestination myhosts mydomains

Which of the following is correct about this excerpt from an LDIF file?

dn: cn=PrintOperators,ou=Groups,o=IT,DC=mycompany,DC=example,DC=com
dn is the domain name.
o is the operator name.
cn is the common name.
dn is the relative distinguished name.
DC is the delegation container.

Explanation:

Reference: https://msdn.microsoft.com/en-us/library/aa366101(v=vs.85).aspx

Question 76

FILL BLANK

Which OpenLDAP client command can be used to change the password for an LDAP entry? (Specify ONLY the command without any path or parameters.)

Question 77

```
The Samba configuration file contains the following lines:
host allow = 192.168.1.100 192.168.2.0/255.255.255.0 local host
host deny = 192.168.2.31
interfaces = 192.168.1.0/255.255.255.0192.168.2.0/255.255.255.0
```

A workstation is on the wired network with an IP address of 192.168.1.177 but is unable to access the Samba server. A wireless laptop with an IP address 192.168.2.93 can access the Samba server. Additional trouble shooting shows that almost every machine on the wired network is unable to access the Samba server.

Which alternate host allow declaration will permit wired workstations to connect to the Samba server without denying access to anyone else?

□ host allow = 192.168.1.1-255
 □ host allow = 192.168.1.100 192.168.2.200 localhost
 □ host deny = 192.168.1.100/255.255.255.0 192.168.2.31 localhost
 ☑ host deny = 192.168.2.200/255.255.255.0 192.168.2.31 localhost
 ☑ host allow = 192.168.1.0/255.255.255.0 192.168.2.0/255.255.255.0 localhost

NETLOGON

In response to a certificate signing request, a certification authority sent a web server certificate along with the certificate of an intermediate certification authority that signed the web server certificate.

What should be done with the intermediate certificate in order to use the web server certificate with Apache HTTPD?

I	The intermediate certificate should be merged with the web server's certificate into
(one file that is specified in SSLCertificateFile
I	☐ The intermediate certificate should be used to verify the certificate before its
(deployment on the web server and can be deleted
I	☐ The intermediate certificate should be stored in its own file which is referenced in
(SSLCaCertificateFile
I	☐ The intermediate certificate should be improved into the certificate store of the web
ŀ	prowser used to test the correct operation of the web server
I	☐ The intermediate certificate should be archived and resent to the certification
ć	authority in order to request a renewal of the certificate
_	
Quest	tion 79
In which	CIFS share must printer drivers be placed to allow Point'n'Print driver deployment on
Window	s?
I	□ winx64drv\$
I	☑ print\$
I	☐ The name of the share is specified in the option print driver share within each
ı	orintable share in smb.conf
I	□ pnpdrivers\$

Which of the statements below are correct regarding the following commands, which are executed on a Linux router? (Choose two.)

ip6tables	-A FORWARD -s fe80::/64 -j DROP
ip6tables	-A FORWARD -d fe80::/64 -j DROP
П	Packets with source or destination addresses from fe80::/64 will never occur in the
_	ARD chain
	The rules disable packet forwarding because network nodes always use addresses
from fe	e80::/64 to identify routers in their routing tables
	ipótables returns an error for the second command because the affected network is
already	part of another rule
×	Both ip6tables commands complete without an error message or warning
×	The rules suppress any automatic configuration through router advertisements or
DHCPv	6

Question 81

FILL BLANK

Which attitude of an object in LDAP defines which other attributes can be set for the object? (Specify ONLY the attribute name without any values.)

Explanation:

Reference: https://docs.oracle.com/cd/E19850-01/816-6699-10/schemaov.html

Question 82

Which of the following actions are available in Sieve core filters? (Choose three.)

□ drop
□ discard
☑ fileinto
☑ relay
☑ reject

Question 83

FILL BLANK

Which doveadm sub-command displays a list of connections of Dovecot in the following format? (Specify ONLY the command without any parameters.)

Explanation:

When are Sieve filters usually applied to an email?

- When the email is delivered to a mailbox
- ☐ When the email is relayed by an SMTP server
- ☐ When the email is received by an SMTP smarthost
- ☐ When the email is sent to the first server by an MUA
- ☐ When the email is retrieved by an MUA

Question 85

Which of the following PAM modules allows the system administrator to use an arbitrary file containing a list of user and group names with restrictions on the system resources available to them?

- □ pam_filter
- pam_limits
- pam_listfile
- □ pam_unix

Question 86

FILL BLANK

According to the configuration below, what is the full e-mail address of the administrator for this domain?

Explanation:

n a BIND zor	ne file, what does the @ character indicate?
□ ⊠ □	It's the fully qualified host name of the DNS server It's an alias for the e-mail address of the zone master It's the name of the zone as defined in the zone statement in named.conf It's used to create an alias between two CNAME entries
Question Which of the	1 88 following authentication mechanisms are supported by Dovecot? (Choose three.)
 X X 	ldap digest-md5 cram-md5 plain krb5

Reference: https://wiki2.dovecot.org/Authentication/Mechanisms

In order to join a file server to the Active Directory domain intra.example.com, the following smb.conf has been created:

[global]

```
workgroup = intra.example.com
netbios name = Fileserver
server role = member server
idmap config * : backend = tdb
idmap config * : range = 10000-199999
winbind enum users = yes
winbind enum group = yes
```

The command net ads join

raises an error and the server is not joined to the domain. What should be done to successfully join the domain?

Ц	Change server role to ad member server to join an Active Directory domain instead
an NT4	domain.
	Add realm = intra.example.com to the smb.conf and change workgroup to the
domair	n's netbios workgroup name.
	Manually create a machine account in the Active Directory domain and specify the
machin	ne account's name with –U when starting net ads join.
	Remove the winbind enum users and winbind enum groups since winbind is
incomp	patible with Active Directory domains.

Remove all idmap configuration stanzas since the id mapping is defined globally in an Active Directory domain and cannot be changed on a member server.

Question 90

Which of the following statements allow the logical combinations of conditions in Sieve filters? (Choose two.)

×	allof
	anyof
	noneof
	and
×	or

Explanation:

Reference: https://kb.vircom.com/kbase/redirfile.asp?id=581&SID=

A user requests a "hidden" Samba share, named confidential, similar to the Windows Administration Share. How can this be configured?

```
[confidential]
    comment = hidden share
    path = /srv/smb/hidden
    write list = user
    create mask = 0700
    directory mask = 0700
[$confidential]
   comment = hidden share
   path = /srv/smb/hidden
   write list = user
   create mask = 0700
   directory mask = 0700
П
    [#confidential]
    comment = hidden share
    path = /srv/smb/hidden
    write list = user
    create mask = 0700
    directory mask = 0700
```

[%confidential]

comment = hidden share

path = /srv/smb/hidden

write list = user

create mask = 0700

directory mask = 0700

[confidential\$]

comment = hidden share

path = /srv/smb/hidden

write list = user

create mask = 0700

directory mask = 0700

×

A zone file contains the following lines:

```
$ORIGIN example.com
host2.example.org. IN A 198.51.100.102
and is included in the BIND configuration using this configuration stanza:

zone "example.com" {
    type master;
    file "db.example.com";
};

Which problem is contained in this configuration?

    The zone statement is the BIND configuration must contain the cross-zone-data yes; statement.
    The zone cannon contain records for a name which is outside the zone's hierarchy.
    The $ORIGIN declaration cannot be used in zone files that are included for a specific zone name in the BIND configuration.
```

An A record cannot contain an IPv4 address because its value is supposed to be a

Names of records in a zone file cannot be fully qualified domain names.

Question 93

×

reverse DNS name.

The program vsftpd, running in a chroot jail, gives the following error:

```
/bin/vsftpd: error while loading shared libraries: libc.so.6: cannot open shared object file: No such file or directory.

Which of the following actions would fix the error?

The file /etc/ld.so.conf in the root filesystem must contain the path to the appropriate lib directory in the chroot jail

Create a symbolic link that points to the required library outside the chroot jail
```

Copy the required library to the appropriate lib directory in the chroot jail

Run the program using the command chroot and the option--static_libs

Question 94 With Nginx, which of the following directives is used to proxy requests to a FastCGI application? □ fastcgi_pass □ proxy_fastcgi □ proxy_fastcgi_pass □ fastcqi_forward

Question 95

Which of the following sshd configuration should be set to no in order to fully disable password based logins? (Choose two.)

	PAMAuthentication
×	ChallengegeResponseAuthentication
	PermitPlaintextLogin
	UsePasswords
×	PasswordAuthentication

Question 96

Which tool creates a Certificate Signing Request (CSR) for serving HTTPS with Apache HTTPD?

	apachect1
	certgen
	cartool
	httpsgen
×	openssl

Question 97

Which of the following DNS records could be a glue record?

×	ns1.lab	A 198.51.100.53
	lab	NS 198.51.100.53
	ns1.lab	NS 198.51.100.53
	ns1.	A 198.51.100.53
	ns1.lab	GLUE 198.51.100.53

	the following commands displays an overview of the Postfix queue content to help identify es that are causing excessive mail traffic?
Syplanatic	queuequery qshape postmap poststats
Explanation Reference	: https://easyengine.io/tutorials/mail/postfix-queue/
Kororonoo	. Tritips., / easy engine nor tatorials/ main/postnix queue/
Questi	on 99
Which Lin	ux user is used by vsftpd to perform file system operations for anonymous FTP users?
	The Linux user that owns the root FTP directory served by vsftpd The Linux user with the same user name that was used to anonymously log into the P server The Linux user root, but vsftpd grants access to anonymous users only to globally ad-/writeable files
Questi	on 100
There is a	restricted area in a site hosted by Apache HTTPD, which requires users to authenticate e file /srv/www/security/site�passwd.
	nmand is used to CHANGE the password of existing users, without losing data, when Basic ation is being used?
Explanatio	htpasswd /srv/www/security/site&passwd user htpasswd –n /srv/www/security/site&passwd user htpasswd –D /srv/www/security/site&passwd user

Reference: https://httpd.apache.org/docs/2.4/howto/auth.html

Question 101 Which of the following PAM modules sets and unsets environment variables? pam_set pam_shell pam-vars × pam-env pam_export **Explanation**: Reference: https://www.linux.org/docs/man5/pam_env.html **Question 102** Which rdnc sub command can be used in conjunction with the name of a zone in order to make BIND reread the content of the specific zone file without reloading other zones as well? × lookup reload fileupdate reread zoneupdate **Question 103** When the default policy for the netfilter INPUT chain is set to DROP, why should a rule allowing traffic to localhost exist? All traffic to localhost must always be allowed It doesn't matter; netfilter never affects packets addressed to localhost × Some applications use the localhost interface to communicate with other applications syslogd receives messages on localhost The iptables command communicates with the netfilter management daemon netfilterd on localhost to create and change packet filter rules **Question 104** What does the samba-tool testparm command confirm regarding the Samba configuration? × The configuration loads successfully. The service operates as expected.

The Samba services are started automatically when the system boots.

The netfilter configuration on the Samba server does not block any access to the

All running Samba processes use the most recent configuration version. Explanation:

services defined in the configuration.

Reference: https://www.samba.org/samba/docs/current/man-html/testparm.1.html

Question 105

How must Samba be configured such	that it can check CIFS	S passwords against t	those found in
/etc/passwd and /etc/shadow?			

	Set the parameters "encrypt passwords = yes" and "password file = /etc/passwd"
	Set the parameters "encrypt passwords = yes", "password file = /etc/passwd" and
"passw	vordalgorithm = crypt"
	Delete the smbpasswd file and create a symbolic link to the passwd and shadow file
×	It is not possible for Samba to use /etc/passwd and /etc/shadow directly
	Run smbpasswd to convert /etc/passwd and /etc/shadow to a Samba password file

Question 106

Which option within the ISC DHCPD configuration file defines the IPv4 DNS server address(es) to be sent to the DHCP clients?

×	domain-name-servers
	domain-server
	name-server
	servers

Question 107

Which Postfix command can be used to rebuild all of the alias database files with a single invocation and without the need for any command line arguments?

makealiases
newaliases
postalias
postmapbuild

Question 108

Which of the following actions synchronizes UNIX passwords with the Samba passwords when the encrypted Samba password is changed using smbpasswd?

	There are no actions to accomplish this since is not possible.
	Run netvamp regularly, to convert the passwords.
	Run winbind –sync, to synchronize the passwords.
×	Add unix password sync = yes to smb.conf
	Add smb unix password = sync to smb.conf
_	

Explanation:

Reference: https://www.oreilly.com/openbook/samba/book/ch06_04.html

For what pu	rpose is TCP/IP stack fingerprinting used by nmap?	
⊠ □ □ □ Explanation:	It is used to determine the remote operating system. It is used to filter out responses from specific servers. It is used to identify duplicate responses from the same remote server. It is used to masquerade the responses of remote servers. It is used to uniquely identify servers on the network for forensics.	
Reference: h	nttps://nmap.org/nmap-fingerprinting-old.html	
	n 110 name of the network security scanner project which, at the core, is a server with a set of nerability tests?	
□ ⊠ □	NetMap OpenVAS Smartscan Wireshark	
Questio FILL BLANK	n 111	
Which directive in a Nginx server configuration block defines the TCP ports on which the virtual host will be available, and which protocols it will use? (Specify ONLY the option name without any values.)		
Question 112 Select the Samba option below that should be used if the main intention is to setup a guest printer		
service?		
 	security = cups security = Idap security = pam security = share security = printing	

Which of the f	ollowing statements is INCORRECT regarding the LDIF file format?
the file the file this er	It contains a dn line that indicates where the attributes listed in the following lines of e must be added. In the file, a blank line separates one entry from another one. If an attribute contains binary data, some specific configurations must be made for attry. The LDIF file accepts any type of file encoding.
Question	114
between VPN	ollowing OpenVPN configuration options makes OpenVPN forward network packets clients itself instead of passing the packets on to the Linux host which runs the er for further processing?
	inter-client-traffic client-to-client client-router client-pass grant-client-traffic
Question	115
•	event all anonymous FTP users from listing uploaded file names, what security be taken when creating an upload directory?
	The directory must not have the execute permission set. The directory must not have the read permission set. The directory must not have the read or execute permission set. The directory must not have the write permission set. The directory must not contain other directories.
Question What is the na	116 me of the Dovecot configuration variable that specifies the location of user mail?
	mbox mail_location user_dir maildir user_mail_dir

FILL BLANK

What is the path to the global Postfix configuration file? (Specify the full name of the file, including path.)

Question 118

Which statements about the Alias and Redirect directives in Apache HTTPD's configuration file are true? (Choose two.)

	Alias can only reference files under DocumentRoot
	Redirect works with regular expressions
×	Redirect is handled on the client side
×	Alias is handled on the server side
	Alias is not a valid configuration directive

Question 119

Which Apache HTTPD configuration directive is used to specify the method of authentication, e.g. None or Basic?

	AuthUser
	AllowedAuthUser
×	AuthType
	AllowAuth

Explanation:

Reference: https://httpd.apache.org/docs/2.4/howto/auth.html