




 CompTIA Linux+ and LPIC Practice Tests




PREV

Chapter 17 System Maintenance (Topic 206)

NEXT

Chapter 19 HTTP Services (Topic 208)



Chapter 18

Domain Name Server (Topic 207)

THE FOLLOWING LPIC-2 EXAM TOPICS ARE COVERED IN THIS CHAPTER:

- ✓ **207.1 Basic DNS server configuration**
 - BIND 9.x configuration files, terms and utilities
 - Defining the location of the BIND zone files in BIND configuration files
 - Reloading modified configuration and zone files
 - Awareness of dnsmasq, djbdns, and PowerDNS as alternate name servers
 - The following is a partial list of the used files, terms and utilities:
 - /etc/named.conf
 - /var/named/
 - rndc
 - named-checkconf
 - kill
 - host
 - dig
- ✓ **207.2 Create and maintain DNS zones**
 - BIND 9 configuration files, terms and utilities
 - Utilities to request information from the DNS server
 - Layout, content and file location of the BIND zone files
 - Various methods to add a new host in the zone files, including reverse zones
 - The following is a partial list of the used files, terms and utilities:
 - /var/named/
 - zone file syntax
 - resource record formats
 - named-checkzone
 - named-compilezone
 - masterfile-format
 - dig
 - nslookup
 - host
- ✓ **207.3 Securing a DNS server**
 - BIND 9 configuration files
 - Configuring BIND to run in a chroot jail

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- Awareness of DNSSEC and basic tools
- Awareness of DANE and related records
- The following is a partial list of the used files, terms and utilities:
- `/etc/named.conf`
- `/etc/passwd`
- DNSSEC
- `dnssec-keygen`
- `dnssec-signzone`

1. 1. Which configuration file is used as the default configuration for a BIND server?

1. `named.conf`
2. `named.cfg`
3. `bind.cfg`
4. `bind.conf`

2. 2. Which directive within a BIND configuration specifies the addresses or networks that are allowed to query the nameserver?

1. `query-addresses`
2. `allow-query`
3. `query-allow`
4. `query-auth`

3. 3. Which signal to the `kill` command can be used to signal that BIND should reload, including its configuration?

1. `-15`
2. `-1`
3. `-9`
4. `-2`

4. 4. What option to `dnssec-keygen` specifies the algorithm to use for the key?

1. `-a`
2. `-n`
3. `-d`
4. `-e`

5. 5. Which of the following describes a fundamental difference between `named-compilezone` and `named-checkzone`?

1. `named-checkzone` and `named-compilezone` do the same thing.
2. `named-checkzone` checks a zone for syntax errors; `named-compilezone` checks a zone for syntax errors and sends output to a file.
3. `named-checkzone` performs syntax checking, while `named-compilezone` converts the zone to a different format.
4. `named-checkzone` performs syntax checking, while `named-compilezone` prepares the zone for usage with BIND.

6. 6. When creating MX records for a zone, which of the following is the highest priority mail exchanger?

1. 0
2. 10
3. 20
4. 100

7. 7. On which protocol and port are zone transfer requests sent?

1. UDP/53

2. ICMP/53
 3. TCP/143
 4. TCP/53
8. 8. Within which of the following directories are zone files stored for BIND?
1. /var/named
 2. /etc/named
 3. /var/cache/named
 4. /var/named.zones
9. 9. Which of the following commands is used to control a BIND name server?
1. bind-config
 2. named-config
 3. rndc
 4. rdmc
10. 10. Which type can be used with the dig command to test a zone transfer?
1. xfr
 2. transfer
 3. zxfr
 4. axfr
11. 11. Which BIND configuration directive sets the IP addresses on which the daemon will listen?
1. listeners
 2. listen-on
 3. listen-in
 4. ip-listeners
12. 12. When configuring BIND for a chroot scenario, within which of the following files should you set the home directory for the chroot user to use with bind?
1. /etc/bind.home
 2. /etc/bind.user
 3. /etc/passwd
 4. /etc/bindauth
13. 13. Which command is used to sign a DNS zone for DNSSEC?
1. dnssec-signzone
 2. signzone
 3. bind-signzone
 4. dnssec-sign
14. 14. Which option to the host command sets the query type to ANY?
1. -a
 2. -b
 3. -c
 4. -d
15. 15. Which of the following correctly creates a CNAME record between the hostname www and the host web.example.com?
1. www CNAME web.example.com
 2. web.example.com CNAME www

3. `www IN CNAME web.example.com.`
4. `www IN CNAME web.example.com`

16. 16. Which option to the forward directive in BIND sets the server as a forwarding server?

1. `only`
2. `first`
3. `now`
4. `required`

17. 17. When running a recursive nameserver, which of the following options refuses to provide answers to queries from the given addresses?

1. `deny-hosts`
2. `blackhole`
3. `deny-query`
4. `deny-answer`

18. 18. Which of the following is a prerequisite for installing djbdns?

1. BIND9
2. `daemontools`
3. `qmail`
4. `bind-tools`

19. 19. Which command can be used to verify that a BIND configuration file is valid?

1. `bind9-ver`
2. `bind-check`
3. `config-check`
4. `named-checkconf`

20. 20. Which of the following TTL values represents eight hours?

1. 8
2. 480
3. 28800
4. 86400

21. 21. Assuming the following portion of a BIND zone file, what does the value 1800 represent?

```
@ IN SOA cwa.example.org. root.example.org. (
  2016070400
  3600
  1800
  604800
  86400 )
```

1. Refresh
2. Retry
3. Default TTL
4. Serial

22. 22. Which type of resource record is used for SPF records?

1. SPF
2. MX
3. TXT
4. MAIL

23. 23. Which of the following defines an MX record with a priority of 10?

1. MX 10 mail.example.com.
2. 10 MX mail.example.com.
3. mail.example.com 10 MX
4. mail.example.com MX 10

24. 24. Within which file can per-user default settings be created for the dig command?

1. /etc/dig.cfg
2. /etc/dig.conf
3. ~/.digrc
4. ~/.dig.conf

25. 25. Which option to the mount command is helpful to facilitate running BIND in a chroot environment?

1. --bind
2. --chroot
3. --lift
4. --secure

26. 26. When setting up a recursive name server, which type of zone is set up for the root hints file?

1. Master
2. Slave
3. Recurse
4. Hint

27. 27. After making changes to a DNS zone, which of the following commands can be used to reload the zones so that the changes take effect?

1. rndc reload
2. rndc restart-zones
3. rndc zone-reload
4. rndc-rel

28. 28. Which configuration option within a BIND zone configuration specifies the hosts that are allowed to request a zone transfer?

1. allow-axfr
2. allow-xfr
3. allow-trans
4. allow-transfer

29. 29. Which type of DNS record is used for specifying a POP3 server?

1. POP
2. PO
3. MX
4. There is no specific type for POP3 servers.

30. 30. Which directive within a BIND configuration enables specification of the hosts or networks that are allowed to perform a recursive lookup using the server?

1. allow-recurs
2. allow-recursive
3. allow-recursion
4. allow-rec

31. 31. Which of the following is the correct format for a named-checkzone command?

1. `named-checkzone <zone> <zonefile>`
2. `named-checkzone -z <zone>`
3. `named-checkzone -f <zonefile>`
4. `named-checkzone <zonefile> <zone>`

32. 32. Which algorithm must be used for `rndc` authentication when generating a key with `dnssec-keygen`?

1. sha1
2. sha256
3. md5
4. hmac-md5

33. 33. Which of the following configuration directives tells BIND not to divulge its version?

1. `allow-version { none }`
2. `version none;`
3. `allow-query-version { none; }`
4. `query-version no;`

34. 34. Which option to `named-checkconf` is used to perform a test of all master zones noted in the config file?

1. `-l`
2. `-f`
3. `-z`
4. `-d`

35. 35. You have specified 300 as the TTL for an individual record within your zone, and the zone itself has an 86400 default TTL. When making a change to that individual record, how long will it take for the change to propagate to external resolvers after you have restarted BIND?

1. Up to 86400 seconds
2. Up to 300 seconds
3. The change is immediate after restart.
4. It is impossible to tell from the information given.

36. 36. Which of the following packages will install the PowerDNS authoritative nameserver on Debian and Red Hat, respectively?

1. `pdns-server` on Debian and `pdns` on Red Hat
2. `pdns` on Debian and `pdns-server` on Red Hat
3. `pdns` on both Debian and Red Hat
4. `pdns-server` on both Debian and Red Hat

37. 37. Which of the following commands can be used to restart a BIND server so that changes to the `named.conf` file take effect?

1. `rndc reload`
2. `rndc reconfig`
3. `named reboot`
4. `restart bind`



