Topic 108: (12) Essential system Services

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108.1 (3) Maintain system time

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108.1 (3) Maintain system time

Question: 90

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: 92

Which of the following tasks can be accomplished using the command date? (Choose TWO correct

answers.)

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: B, C

Question: 98

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: 101

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: 102

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: 107

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: 113

What 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: 114

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: 173

Which of the following tasks can the date command accomplish?
Choose two.)

A. Set the system's date and time.

B. Set the system's date but not the time.

C. Calculate the time span between two dates.

D. Print a calendar for a month or a year.

E. Display time in a specific format.

Answer: A,E

Question: 176

Which of the following statements is true regarding systemd timer units?

A. Timer units can only be defined within a service unit's file.

B. The command executed by the timer is specified in the timer unit's [Cmd] section.

C. A dedicated system service, systemd-cron, handles the execution of timer units.

D. Timer units only exist in the system scope and are not available for users.

E. Each systemd timer unit controls a specific systemd service unit.

Answer: E

Question: 181

Which option in the chrony configuration file changes the initial interval of polls to a NTP server in order to speed up the initial synchronization?
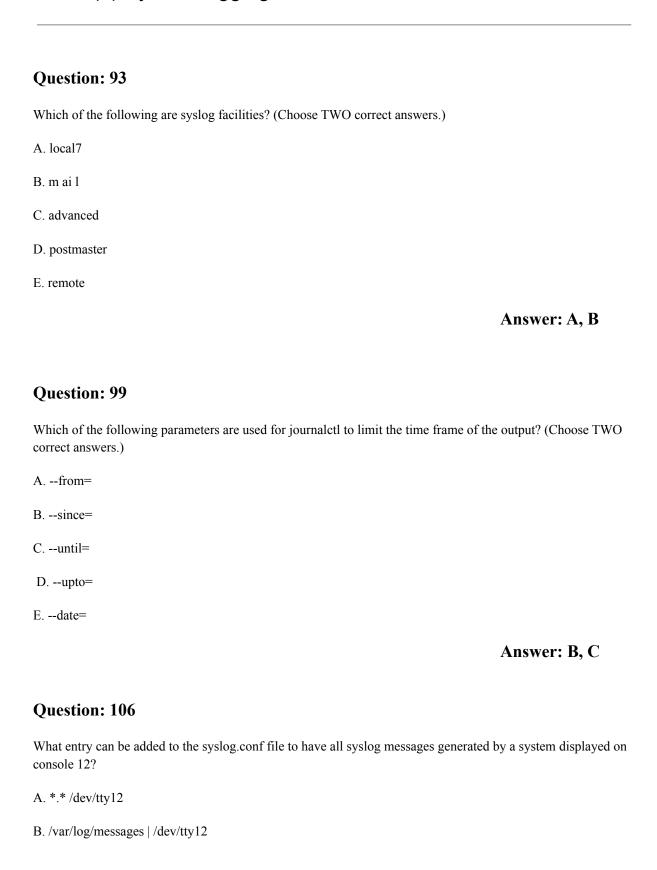
A. iburst

B. quickstart

C. fast

D. fsync

E. flood

Answer: A

108.2 (4) System logging

Question: 93

Which of the following are syslog facilities? (Choose TWO correct answers.)

A. local7

B. m ai l

C. advanced

D. postmaster

E. remote

Answer: A, B

Question: 99

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

A. --from=

B. --since=

C. --until=

 D. --upto=

E. --date=

Answer: B, C

Question: 106

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: 109

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: 110

To exclude all log messages of a given logging facility, you should use a logging priority of _____ .

Answer: none

Question: 111

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: 117

What entry can you add to syslog.conf file to have all syslog messages generated by your 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: 172

Which of the following commands shows all active systemd timers?

A. systemctl-timer show

B. timectl list

C. systemctl –t

D. systemctl list-timers

E. time𝔮

Answer: D

Question: 179

Which command included in systemd supports selecting messages from the systemd journal by

criteria such as time or unit name? (Specify only the command without any path or parameters.)

Answer: journalctl

Question: 180

Which of the following statements about sytemd-journald are true? (Choose three.)

A. It is incompatible with syslog and cannot be installed on a system using regular syslog.

B. It only processes messages of systemd and not messages of any other tools.

C. It can pass log messages to syslog for further processing.

D. It maintains metadata such as _UID or _PID for each message.

E. It supports syslog facilities such as kern, user, and auth.

Question: 184

Which of the following entries in /etc/syslog.conf writes all mail related events to the file /var/log/maillog and sends all critical events to the remote server logger.example.com?

A. mail.*/var/log/maillogmail,crit@logger.example.org

B. mail.*/var/log/maillogmail.critsyslog://logger.example.org

C. mail/var/log/maillogmail.crit@logger.example.org

D. mail.*/var/log/maillogmail.crit@logger.example.org

E. mail */var/log/maillogmail crit@logger.example.org

Answer: D

108.3 (3) Mail Transfer Agent (MTA) basics

Question: 94

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: 96

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: 97

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: 100

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

A. Postfix

B. Procmail

C . Sendmail

D. Exim

E. SMTPd

Answer: A, C, D

Question: 103

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: 108

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: 115

Which file, 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. ~ / . al ias

C. /etc/mail/forwarders

D. ~/.forward

E. ~/.vacation

Answer: D

Question: 116

What command should be used to print a listing of email in the system's mail queue?

A . l pq

B. mailq

C. mlq

D. sendmail -l

Answer: B

Question: 185

Which of the following protocols is related to the term open relay?

A. SMTP

B. POP3

C. NTP

D. IMAP

E. LDAP

Answer: A

108.4 (2) Manage printers and printing

Question: 91

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: 95

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: 104

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: 105

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

A . l pd

B . l pp

C . l pq

D. lpr

Answer: D

Question: 112

You need to pause the CUPS printer HPLaserjet4, and you want to cancel all print jobs with a message, "hello". Which command will do this?

A. cupsreject -c -r hello HPLaserjet4

B. cupsreject -p -m hello HPLaserjet4

C. cupsdisable -c -r hello HPLaserjet4

D. cupsdisable -p -m hello HPLaserjet4

Answer: C

Question: 182

What is the top-level directory which contains the configuration files for CUPS? (Specify the full path

to the directory.)

Answer: /etc/cups/ cups-files.conf

Question: 183

Which of the following commands lists all queued print jobs?

A . l pd B .

 l pr

C . lp

D. lsq

E . l pq

Answer: E