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201-450

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LPIC-2 Exam 201, Part 1 of 2, version 4.5

Version 1.1

# Exam A (60 questions)

# **Question 1**

After manually compiling and installing a ne	w kernel, what has to be done regarding the initramfs?
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	To initramfs is independent of the kernel and should not be modified unless the
hardwa	are configuration of the machine has changed
	Since the initramfs contains kernel modules, a new initramfs must be built for the
new ke	ernel
×	During the compilation of the Linux kernel, a new initramfs is built automatically. The
new in	itramfs only needs to be installed
	The system should be restarted since the initramfs reconfigures itself for the new
kernel	during the startup of the system

# **Question 2**

Which of the following files will be looked for and used by GNU make, if one of them exists, unless a different file is specified on the command line when trying to compile software from source code? (Choose two.)

	configure
	config.h.in
×	makefile
×	Makefile
	Makefile.in

# **Question 3**

How is the source code for the main Linux kernel modules distributed?

×	It is included with the Linux kernel source code	
	The kernel modules are downloaded on demand as they are used during compilation	
	The kernel modules have their own release cycle and can be maintained separately	
from the Linux kernel source		
	It is provided as a separate download alongside the Linux kernel source code for the	
same version		

# Question 4 Which command is used to make an exact copy, at a single point in time, of a logical volume while still allowing the original logical volume to be updated? □ lvcclone ☑ lvcreate □ lvm2

# **Question 5**

Ivsnap

**Ivsnapshot** 

Fill in the blank.

What command discards unused blocks on a mounted file system in order to support SSD devices? (Specify ONLY the command without any path or parameters.)

# **Question 6**

How can the label root be added to the ext4 filesystem on /dev/sda1?

	relabel /dev/sda1 root
×	tune2fs -L root /dev/sda1
	echo 'root' > /proc/fs/sda1/label
	labelfsdevice /dev/sda1 root

# **Question 7**

Which of the following init systems comes along with an own UEFI boot loader?

×	systemd
	SysVinit
	Upstart
	OpenRC
	launchd

# **Question 8**

Which of the following commands shows capabilities and usable frequencies for the wireless interface wlan0?

×	iw phy pyh0 info
	iw dev wlan0 info
	iw dev wlan0 show
	iw phy wlan0 show
	iw phy0 show

Fill in the blank.

What command will remove a physical volume from a volume group? (Specify ONLY the command without any path or parameters.)

# **Question 10**

What is the purpose of the command udevadm monitor?

×	It listens to kernel events produced by a udev rule and prints information to the
console	
	It monitors the /dev/ directory for new devices
	It monitors the udev process and prints performance statistics to the console
	It communicates with D-Bus to setup new devices

# **Question 11**

Which of the following properties should be recorded in order to monitor the quality of a network link? (Choose two.)

×	Bandwidth in both directions
	Number of nodes using the link
×	Effective Latency
	Number of IPv4 and IPv6 packets
	Number of used TCP ports

# **Question 12**

Which of the following commands restores only those files containing lpi in their name from the archive lpifiles.tar.gz?

×	tar xvzf lpifiles.tar.gzwildcards '*lpi*
	tar xvzwf lpifiles.tar.gz '*lpi*'
	tar -xvfz lpifiles.tar.gzdeep '*lpi*'
	tar -xvzf lpifiles.tar.gzsubdirs '*lpi*'
	tar xvzf lpifiles.tar.gzglobbing '*lpi*'

A regular user has just run

./configure && make && make install

to build and install a program. However, the installation fails. What could be done to install the program? (Choose two.)

- ☐ Install the binaries manually with suinstall
- Run make install with root privileges
- Do not run ./configure in order to maintain the default configuration for correct installation
- Rerun ./configure with a --prefix option where the user has permissions to write
- ☐ Run make install\_local to install into /usr/local/

# **Question 14**

What information is found in the following excerpt from the file /proc/mdstat? (Choose two.)

- One of the disks in /dev/md0 has failed and a spare disk is used to recreate full redundancy
- ☐ The spare disk /dev/sda1 is used to restore full redundancy after the current recovery
- The information [UU\_] means, that the raid is missing one disk and is not fully redundant
- The device is using version 1.2 metadata to allow LILO and GRUB Legacy to use /dev/md0 as the boot partition. This would not have been necessary with GRUB2
- The information [3/2] means that 3 RAID disks belong to the array and 2 disks are spare. Together they equal the number of available disks

# **Question 15**

Fill in the blank.

What command ensures that the file systems are written to disk after a lot of write operations? (Specify ONLY the command without any path or parameters.)

Fill in the blank.

The users of the local network complain that name resolution is not fast enough. Which command shows the time taken to resolve a DNS query? (Specify the command without path.)

#### Question 17

Question 17	
Which of the fo	ollowing commands erases the contents of the /dev/sdb3 partition?
	rm /dev/sdb3 dd if=/dev/zero of=/dev/sdb3 dd of=/dev/zero if=/dev/sdb3 umount /dev/sdb3
Question	18
What is the mir	nimum number of disks required in a fully redundant RAID5 array?
	1
	2
×	3

# **Question 19**

 4

5

On a server running the 3.4.50-11 Linux kernel, which file in the /boot directory contains the kernel configuration parameters?

	config-linux-3.4.50-11
×	config-3.4.50-11
	system-3.4.50-11
	vmlinuz-3.4.50-11
	rc.config-3.4.50-11

	system kernel writes disk	It copies the root file system's content to RAM to speed up the system and reduce
Ques	stion 2	21
Which (	of the fo	ollowing commands creates a Btrfs subvolume named volume in/mnt?
		btrfs subvolume add –n volume /mnt btrfs create subvolume /mnt volume btrfs-subvolume create /mnt/volume btrfs subvolume new volume /mnt btrfs subvolume create /mnt/volume
Ques	stion 2	22
What k	to the fi	is missing in the following line from /etc/fstab in order to grant the user fred write les in the vfat file system on /dev/sdb1: t/usbflash vfat defaults,=fred, umask=022, 0 0
(Specify	y ONLY t	he option name without any path or parameters.)
Ques	stion 2	23
Which c	of the fi	ter keywords below could be used in the following command: 0 203.0.113.8
		host ip src dst ipv6

# Question 24 On a Linux node with multiple active networks interfaces, each having a default route to the Internet, which default route is preferred? ☐ The default route with the highest metric value ☐ The default route with the highest MTU value

# **Question 25**

×

The following command has just been run successfully:

The default route with the lowest TTL value

The default route with the highest TTL value

The default route with the lowest metric value

Cd /opt; tar xvf /dev/nst0;

What will happen if the command sequence is run again?

	An error saying that there is no tape present is generated because the tape has been
ejected	l after being used
	The contents of /opt will be restored again
	The entire contents of /opt will be replaced with the contents of the next file on the
tape	
×	The contents of /opt will have additional content added from the next file on the
tape	

# **Question 26**

Which of the following configuration files are used by tcpwrapper?

	/etc/tcpd.allow and etc/tcpd.deny
	/etc/tcpwrapper.allow and /etc/tcpwrapper.deny
×	/etc/hosts.allow and /etc/hosts.deny
	/etc/access.allow and /etc/access.deny
	/etc/service.allow and /etc/service.deny

# **Question 27**

Fill in the blank.

What command is used to send messages to all users currently logged in? (Specify ONLY the command without any path or parameters.)

Which sub command to	crypsetup shows	information about an	encrypted	LUKS partition?
TTITION SON SON INTIANA LO	or pootup or love	ii ii oi i i iatioi i aboat ai i	01101 7 0 0 0	a Lond partitions

×	luksDump
	luksInfo
	luksDebug
	luksLS
	luksShow

# **Question 29**

Fill in the blank.

Which directory contains system-specific systemd unit files? (Specify the full path to the directory.)

# **Question 30**

What effect does the –f option to the update-rc.d command have on files in the /etc/rcX.d/ and /etc/init.d/ directories?

□ only	It will force the removal of the symlinks in /etc/rcX.d/ even when the links are read
o ´	It will remove both the symlinks in /etc/rcX.d/ and the init script in /etc/init.d/
	It will remove the init script in /etc/init.d/ and the symlinks in /etc/rcX.d/ and update
the pa	ckage information of installed files
×	It will force the removal of symlinks in /etc/rcX.d/ even if the corresponding init
script :	still exists in /etc/init.d/

# **Question 31**

A Linux server running systemd booted to rescue.target for maintenance. Which commands are used to restore the server to its usual target? (Choose two.)

×	telinit 0
X	systemctl default
	sync
	systemctl emergency
	systemctl reboot

After th	o down	loading patch-4.6.4.xz from http://kernel.org, what are the next steps to prepare the
		on 4.6.4 Linux kernel? (Choose two.)
	□ □ ☑ ☑ ☑ Ø previou	Uncompress the file and move the resulting directory to /usr/src/linux  Apply the patch file to the kernel source directory containing kernel version 4.6.0  Apply the patch file to the kernel source directory containing kernel version 4.6.3  Uncompress the file using xz to get the uncompressed patch file  Use patch to apply the uncompressed patch file to the source directory of any us kernel version
Ques	tion :	33
	•	ner performance data with sar over a longer period of time, which command should ally from cron?
	×	sa1
		sarmon
		sarec sadf
		sarcron
Ques	stion :	34
Which o	of the fo	ollowing is a userspace application used to modify EFI entries on a Linux system?
		efieditor
		configefi
		efimanager
		efiboottmgr efibootedit
Ques	stion :	35
Which o	of the fo	ollowing commands adds a static IPv6 address to the network interface eth0?
		ip add addr 2001:db8::1337/64 dev eth0
		ip -6 add addr 2001:db8::1337/64 dev eth0
		ip addr add 2001:db8::1337/64 dev eth0
	× □	ip -6 addr add new 2001:db8::1337/64 dev eth0 ip addr add -6 2001:db8::1337/64 dev eth0
	_	1p addi add -0 2001.db01337/04 dev etho

# **Question 36** Which commands below are useful to collect data about remote filesystem connections? (Choose two.) pidstat × nfsiostat sadf × cifsiostat fsiostat **Question 37** Which of the following is a CD-ROM filesystem standard? OSI 9660 × ISO 9660

# **Question 38**

**SROFS** 

ISO 8859

ROM-EO

What action should be performed after increasing the size of a logical volume?

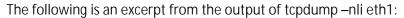
	Run vgresize
×	Increase the size of the filesystem used for the logical volume
	Run 1vresize
	Remount the logical volume

vmstat

freemem

A web application server contains 64GB of RAM and two swap partitions on normal hard disk drives, each with a size of 64 GB. Within the last month, the average number of user sessions on this server has grown by 20 percent. At the same time, the average usage of RAM increased from 65 to 75 percent, while the swap space is almost not used at all. It is expected that the number of user sessions will continue to increase by about 15 to 20 percent each month. Which of the following reactions would be appropriate in response to these observations? (Choose two.)

	vould be appropriate in response to these observations? (Choose two.)
sp sp the ac	Delay any hardware upgrade until there is a significant consumption of swap space to sure an efficient usage of the available hardware  Create a RAID 1 device on the two swap partitions to avoid data loss in case swap ace has to be used in the future  Consider the installation of an additional application server to distribute the load if a expected growth continues over several months  Move the web application's scripts and content a ram disk in order to ensure fast cess and to avoid the need for swap space  Update the hardware to increase the amount of available RAM to avoid using swap ace
	he following commands lists IPv4 addresses and MAC addresses of network nodes that the
local syste	m has seen on its directly connected IP networks?
	arp ifconfig ipadm iwlist
Questi	on 41
	he following commands by default provides the PIDs of the processes sorted by which are nost CPU cycles on the Linux system?
<b>⊠</b> □	top uptime ps aux



13:03:17.277327 IP 192.168.123.5.1065 > 192.168.5.112.21: Flags [.], ack 1 (truncated)

13:03:17.598624 IP 192.168.5.112.21 > 192.168.123.5.1065: Flags [P.], seq (truncated)

Which network service or protocol was used?

- **⋉** FTP
- ☐ HTTP
- □ SSH
- □ DHCP

DNS

# **Question 43**

In the following output of the command uptime, the load averages represent the system load averages for what time frames?

12:10:05 up 18 days, 19:00, 2 users, load average: 0.47, 24.71, 35.31

- **I** 1, 5 and 15 minutes
- □ 1, 15 and 30 minutes
- □ 5, 20 and 25 seconds
- □ 15, 30 and 60 minutes
- □ 15, 45 and 90 seconds

# **Question 44**

Fill in the blank.

After installation of a self-compiled kernel, modules that need to be loaded cannot be found. What make target was likely missed while installing the kernel? (Specify ONLY the make target without any command or parameters.)

# **Question 45**

Fill in the blank.

Which program lists information about files and network connections opened by processes? (Specify ONLY the command without any path or parameters.)

# **Question 46** In the output of sar –b, what does tps stand for? Terrabyte per second Traffic per second X Transfers per second Total data per second Terrabit per second **Question 47** Which of the following parameters instructs the kernel at boot time to use only one of the available processors? X maxcpus=1 usecpus=1 smpcpus=1 vcpumx=1 vmxcpus=1 **Question 48** Fill in the blank. Which is the main configuration file for the SystemV init process? (Specify the full name of the file, including path.) **Question 49** Which command is used to install a GRUB boot loader into the master boot record? X grub-install grub-mkconfig grub-install-mbr grub-glue-mbr grub-mbr-setup

modshow –p dummy

~uoouo	
,	ne hard disk and one CD writer which are both connected to SATA controllers. Which nts the CD writer?
	/dev/hdb /dev/sdd /dev/scd1 /dev/sr0 /dev/sr1
Question	51
	e done to ensure a client machine uses the recursive nameserver running on the IP 68.0.1? (Choose two.)
	Add nameserver 192.168.0.1 to /etc/resolv.conf Run route add nameserver 192.168.0.1 Run ifconfig eth0 nameserver 192.168.0.1 Ensure that the dns service is listed in the hosts entry in the /etc/nsswitch.conf file Run bind add nameserver 192.168.0.1
Question	52
If the file conta	nining the Linux kernel is deleted, what happens when the system boots?
□ filesyst □	The system starts normally since the bootloader copies the kernel to the master boot of the hard disk Instead of the kernel, the initramfs is loaded and instructed to mount the root sem and reinstall the kernel from the original package or from source The bootloader mounts the root filesystem read-only and launches /bin/sh directly in so allow the administrator to reinstall the kernel Without a kernel system cannot boot and, depending on the bootloader, an error is ged
Question	53
Which of the fo	ollowing commands displays the physical path of the kernel module named dummy?
	modprobe –i dummy modinfo –n dummy modpath –v dummy depmod –n dummy

A network client has an Ethernet interface (eth0) configured with an IP address in the subnet
192.168.0.0/24. This subnet has a router, with the IP address 192.168.0.1, that connects this subnet
to the Internet. Which of the following commands can be used on the client to enable it to use the
router as its default gateway? (Choose two.)

×	route add default gw 192.168.0.1 eth0
	ifconfig eth0 defaultroute 192.168.0.1
×	ip route add default via 192.168.0.1
	echo defaultroute 192.168.0.1 >>/etc/resolv.conf
	route add defaultgw=192.168.0.1 if=eth0

# **Question 55**

Due to extreme system use, a Linux system requires some additional swap space. To initialize 5 GB of additional swap space, which combination of commands should be used?

		dd if=/dev/zero of=/tmp/swapfile bs=1024 count=5120000; mkswap /tmp/swapfile;	
dd if=/dev/zero of=/tmp/swapfile bs=1024 count=5120000; mkswap /tmp/swapfile swapon /tmp/swapfile touch -5G /tmp/swapfile; swapon /tmp/swapfile	mount	/tmp/swapfile	
swapon /tmp/swapfile  touch -5G /tmp/swapfile; swapon /tmp/swapfile		dd if=/dev/zero of=/tmp/swapfile bs=1024 count=5120000; swapon /tmp/swapfile	
touch -5G /tmp/swapfile; swapon /tmp/swapfile	×	dd if=/dev/zero of=/tmp/swapfile bs=1024 count=5120000; mkswap /tmp/swapfile;	
	swapon /tmp/swapfile		
mkswap /tmp/swapfile 512000; swapon /tmp/swapfile		touch -5G /tmp/swapfile; swapon /tmp/swapfile	
		mkswap /tmp/swapfile 512000; swapon /tmp/swapfile	

# **Question 56**

What component of a system does smartd monitor?

	CPU
	RAM
×	Hard drives
	Ethernet traffic

# **Question 57**

Which command reports information on memory usage, paging and block input/output?

	free
	memshow
	Isof
	pidof
×	vmstat

# Question 58 Which single command simulates a failed device within a RAID 5 array? ☐ mdadm --remove /dev/md0 /dev/sdd1 ☐ mdadm --zero-superblock /dev/sdf3 ☐ mdadm --force-fault /dev/md2 /dev/sde2 ☑ mdadm --fail /dev/md0 /dev/sdc1

mdadm /dev/md0 --offline /dev/sdc1

# **Question 59**

What is the purpose of a system mount unit?

×	It is used by the command systemd-mount and allows users to mount partitions to	
mount points of their choice		
	It is used only to mount network file systems to local mount points. It cannot be used	
for local media		
	It is created by the command systemd-fstab-generator to integrate entries from	
/etc/fstab into the system boot process		
	It is used by the command mount when using system to mount and unmount file	
system	ns .	

# **Question 60**

In which directory tree are files modified when changing kernel parameters using the command sysctl?

	/sys/kernel/
	/proc/kernel/
×	/proc/sys/
	/lib/sys/
	/sys/proc/