

Linux Sysfs Interview Questions And Answers Guide.



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Linux Sysfs Job Interview Preparation Guide.

Question # 1

The directories of /sys directory:

- a) are created at system startup when the subsystems register themselves with object core
- b) are created when any device is connects with the system
- c) are created at the time of kernel compilation
- d) none of the mentioned

Answer:-

- a) are created at system startup when the subsystems register themselves with kobject core

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Question # 2

The directory /sys/block contains:

- a) sub-directories for each block device
- b) symbolic link for each block device only
- c) device file for each block device only
- d) none of the mentioned

Answer:-

- a) sub-directories for each block device

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Question # 3

In sysfs, each represented bus type has two directories named as:

- a) attributes and kobjects
- b) devices and drivers
- c) devices and kobjects
- d) none of the mentioned

Answer:-

- b) devices and drivers

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Question # 4

A device class describes the ____ type of device.

- a) physical
- b) structural
- c) functional
- d) none of the mentioned

Answer:-

- c) functional

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Question # 5

Which one of the following directory contains every physical device that has been discovered by the bus types registered with the kernel?

- a) /sys/devices
- b) /sys/bus/devices
- c) /devices
- d) none of the mentioned

Answer:-

- a) /sys/devices

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Question # 6

Which type of devices are peripheral devices?

- a) platform devices
- b) system devices
- c) both (a) and (b)
- d) none of the mentioned

Answer:-

- b) system devices

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Question # 7

Which one of the following is not a system device?

- a) CPU
- b) APIC
- c) timer
- d) none of the mentioned

Answer:-

- d) none of the mentioned

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Question # 8

Which one of the following is not a platform specific code?

- a) x86 BIOS
- b) EFI on ia64
- c) both (a) and (b)
- d) none of the mentioned

Answer:-

- d) none of the mentioned

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Question # 9

In device driver model bus_type object contains the:

- a) name of the bus type
- b) set of kobjects of the drivers
- c) set of kobjects of the devices
- d) all of the mentioned

Answer:-

- d) all of the mentioned

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Question # 10

The file fs/sysfs/sysfs.h contains the:

- a) internal header files for sysfs
- b) function definitions shared locally among the sysfs source
- c) both (a) and (b)
- d) none of the mentioned

Answer:-

- c) both (a) and (b)

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Question # 11

In sysfs.h which one of the following structure represents the directory entries?

- a) struct sysfs_dirent
- b) struct sysfs_dir
- c) struct sysfs
- d) none of the mentioned

Answer:-

- a) struct sysfs_dirent

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Question # 12

Which one of the following is not true?

- a) kobjects are included in a hierarchic organisation
- b) kobjects can have a parent
- c) kobjects can be included in a kset
- d) none of the mentioned

Answer:-



d) none of the mentioned

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Question # 13

The name pointer of the attribute data structure represents the _____ in sysfs.

- a) directory
- b) file
- c) symbolic link
- d) none of the mentioned

Answer:-

b) file

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Question # 14

To read/write attribute, which one of the following method is required?

- a) show
- b) store
- c) both (a) and (b)
- d) none of the mentioned

Answer:-

c) both (a) and (b)

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Question # 15

Which one of the following is not contained in the kobject data structure?

- a) pointer to the kobject type descriptor
- b) pointer to the containing kset
- c) pointer to the parent kobject
- d) none of the mentioned

Answer:-

d) none of the mentioned

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Question # 16

The kobjects can be organized in a hierarchical tree by means of:

- a) ksets
- b) kref
- c) ktype
- d) none of the mentioned

Answer:-

a) ksets

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Question # 17

Which one of the following is a element of a kset data structure?

- a) pointer to the subsystem descriptor
- b) pointer to the kobject type descriptor of the kset
- c) both (a) and (b)
- d) none of the mentioned

Answer:-

c) both (a) and (b)

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Question # 18

Which one of the following function is used to add the kobject to sysfs?

- a) kobject_add()
- b) kobject_register()
- c) kobject_init()
- d) all of the mentioned

Answer:-

d) all of the mentioned

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Question # 19

Which one of the following function is used to create a new attribute?

- a) sysfs_create_file()
- b) sysfs_attribute



- c) both (a) and (b)
- d) none of the mentioned

Answer:-

- a) sysfs_create_file()

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Question # 20

Sysfs attribute should export ____ value per file.

- a) one
- b) two
- c) three
- d) four

Answer:-

- a) one

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Question # 21

Sysfs was originally called:

- a) device driver filesystem
- b) kernel interface filesystem
- c) kernel filesystem
- d) none of the mentioned

Answer:-

- a) device driver filesystem

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Question # 22

Sysfs can be considered as the reflection of the:

- a) kernel's device model
- b) user's device model
- c) network's device model
- d) none of the mentioned

Answer:-

- a) kernel's device model

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Question # 23

The files of sysfs contains the information about:

- a) devices and drivers
- b) memory mapping
- c) ports
- d) none of the mentioned

Answer:-

- a) devices and drivers

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Question # 24

Which one of the following is not true?

- a) any file of the sysfs can not be edited
- b) some files of the sysfs are writable for configuration of devices
- c) both (a) and (b)
- d) none of the mentioned

Answer:-

- b) some files of the sysfs are writable for configuration of devices

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Question # 25

In linux sysfs is always mounted at:

- a) /sys
- b) /proc/sys
- c) /proc/mounts
- d) none of the mentioned

Answer:-

- a) /sys

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Question # 26



Libsysfs is a:

- a) user space library
- b) kernel space library
- c) not a library
- d) none of the mentioned

Answer:-

- a) user space library

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Question # 27

Sysfs represents the:

- a) kernel objects
- b) libraries
- c) API
- d) none of the mentioned

Answer:-

- a) kernel objects

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Question # 28

Sysfs does not contains:

- a) regular files
- b) symbolic links
- c) directories
- d) none of the mentioned

Answer:-

- d) none of the mentioned

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Question # 29

The directories in the /sys directory represents:

- a) the device files
- b) major subsystems that are registered with sysfs
- c) details of buses only
- d) none of the mentioned

Answer:-

- b) major subsystems that are registered with sysfs

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Question # 30

In sysfs the device drivers of same _____ are expected to provide same functionalities to the user mode application.

- a) class
- b) kobjects
- c) ksets
- d) none of the mentioned

Answer:-

- a) class

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Question # 31

In which directory every kernel module of the system is represented?

- a) /sys/kernel
- b) /sys/module
- c) /sys/kernel/module
- d) none of the mentioned

Answer:-

- c) /sys/kernel/module

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Question # 32

The channel between the processor and devices is called?

- a) bus
- b) driver
- c) class
- d) none of the mentioned

Answer:-

- a) bus



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Question # 33

Each driver in the device driver model is described by a _____ object.

- a) dev_d
- b) device_d
- c) dev_driver
- d) device_driver

Answer:-

- d) device_driver

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Question # 34

Each device in the device driver model is represented by a _____ object.

- a) driver
- b) device
- c) node
- d) none of the mentioned

Answer:-

- b) device

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Question # 35

Which one of the following is a read-write semaphore in linux that protects all ksets and kobjects included in the filesystem?

- a) rwsem
- b) rwsemaphore
- c) rws
- d) none of the mentioned

Answer:-

- a) rwsem

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Question # 36

The kset contains:

- a) pointer to subsystem descriptor
- b) pointer to the kobject type descriptor of the kset
- c) head of the kobjects included in the kset
- d) all of the mentioned

Answer:-

- d) all of the mentioned

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Question # 37

The core data structure of device driver model is:

- a) kobject
- b) kfile
- c) kmodule
- d) none of the mentioned

Answer:-

- a) kobject

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Question # 38

What is the main role of the regular files in the sysfs?

- a) regular files represent the attributes of devices and drivers
- b) regular files represent the kernel objects
- c) regular files represent the kernel sets
- d) none of the mentioned

Answer:-

- a) regular files represent the attributes of devices and drivers

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Question # 39

Relationship between components of device driver models are expressed in the sysfs as:

- a) a directory
- b) a regular file
- c) symbolic links between files and directories



d) none of the mentioned

Answer:-

c) symbolic links between files and directories

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Question # 40

When a device is removed from the system:

- a) files and directories of that device in the sysfs are removed automatically
- b) all the files of sysfs are preserved until the system turn offs
- c) it does not create any change in the sysfs
- d) none of the mentioned

Answer:-

a) files and directories of that device in the sysfs are removed automatically

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Question # 41

A ____ is a higher level view of a device that abstracts out low level implementation details/

- a) inode
- b) class
- b) major number
- d) minor number

Answer:-

b) class

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Question # 42

In the device driver model the device_driver object contains the:

- a) name of the device driver
- b) embedded kobjects
- c) method for probing a device
- d) all of the mentioned

Answer:-

d) all of the mentioned

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Question # 43

Which one of the following is a notification to user space from the kernel that something has changed in the system's configuration?

- a) hotplug event
- b) module event
- c) attach event
- d) none of the mentioned

Answer:-

a) hotplug event

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Question # 44

In sysfs every subsystem has:

- a) a shared attribute structure
- b) its own attribute structure
- c) both (a) and (b)
- d) none of the mentioned

Answer:-

b) its own attribute structure

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Question # 45

Sysfs internally stores the pointer to the ____ that implements the directory in the file system.

- a) kobjects
- b) kstructures
- c) kinodes
- d) none of the mentioned

Answer:-

a) kobjects

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Question # 46



Kernel objects are exported as _____ via sysfs.

- a) regular files
- b) symbolic links
- c) directories
- d) none of the mentioned

Answer:-

- c) directories

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Question # 47

Sysfs is initialised in _____ file via sysfs_init function.

- a) fs/sysfs/mount.c
- b) sysfs/mount.c
- c) fs/mount.c
- d) none of the mentioned

Answer:-

- a) fs/sysfs/mount.c

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Question # 48

Attributes can be exported for objects in the form of _____ in the file system.

- a) regular files
- b) directories
- c) symbolic links
- d) none of the mentioned

Answer:-

- a) regular files

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Question # 49

sysfs is based on:

- a) rootfs
- b) ramfs
- c) initramfs
- d) none of the mentioned

Answer:-

- b) ramfs

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Question # 50

What is sysfs?

- a) it is a virtual filesystem
- b) users use it to get the information about the running kernel
- c) it is used for exporting kernel objects.
- d) all of the mentioned

Answer:-

- d) all of the mentioned

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