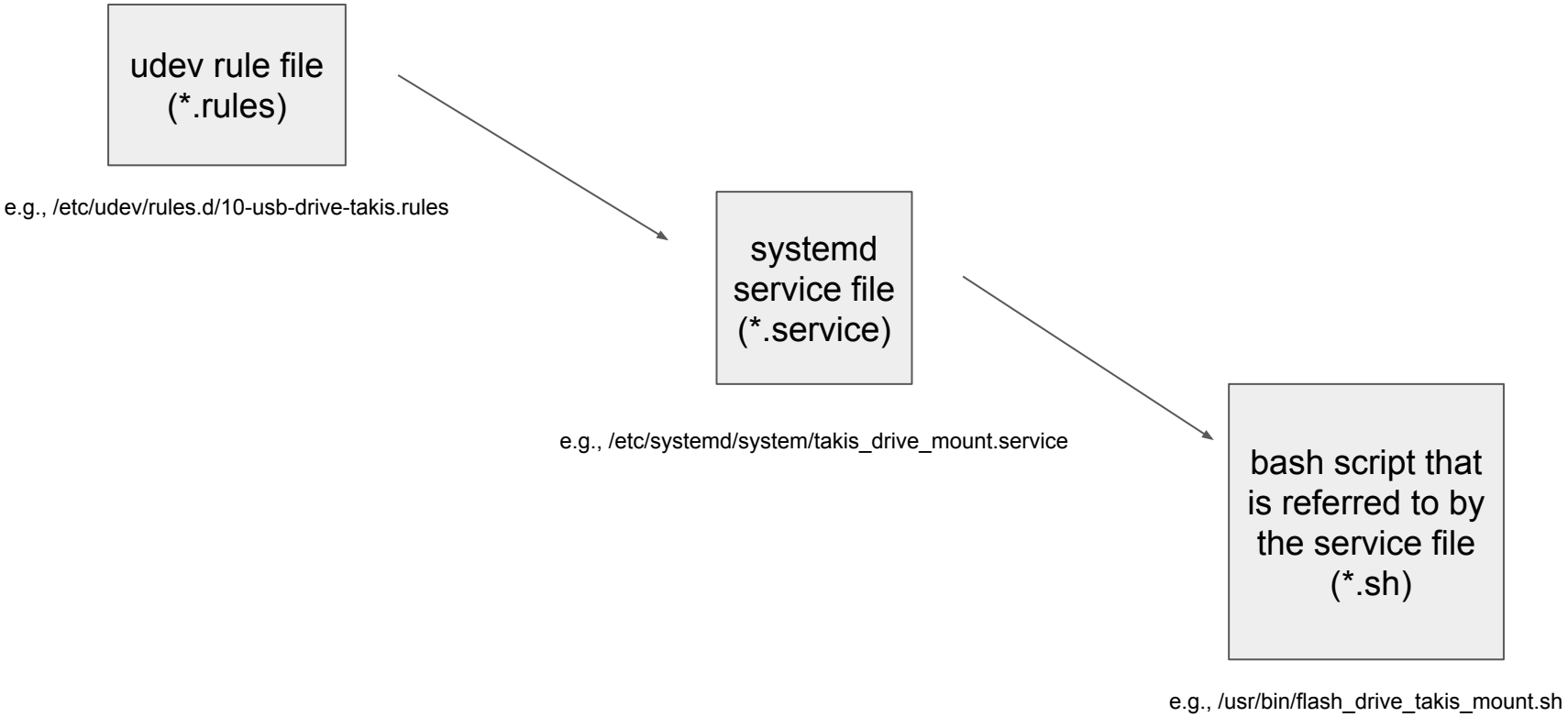
putting together your udev modification

ESE3005

what you'll need



to determine the right kernel/attributes/system info for your udev rule, try:

- examining the kernel ring buffer (messages the kernel creates):
    a. $ dmesg | tail -n25
    b. $ dmesg | grep “usb”
    c. $ dmesg | grep “emmc” # searching for an emmc device
    d. $ dmesg | grep “/dev/sdc”
    e. etc. (get creative!)

- using the udevadm tool, i.e., $ udevadm monitor

from opensource.com:

With the udevadm monitor command, you can tap into udev in real time and see what it sees when you plug in different devices. Become root and try it. [$ sudo -s]

The [udevadm] monitor function prints received events for:

UDEV: the event udev sends out after rule processing
KERNEL: the kernel uevent
With udevadm monitor running, plug in a thumb drive and watch as all kinds of information is spewed out onto your screen. Notice that the type of event is an ADD event. That's a good way to identify what type of event you want.

The udevadm monitor command provides a lot of good info, but you can see it with prettier formatting with the command udevadm info, assuming you know where your thumb drive is currently located in your /dev tree. If not, unplug and plug your thumb drive back in, then immediately issue this command:

$ su -c 'dmesg | tail | fgrep -i sd*'
If that command returned sdb: sdb1, for instance, you know the kernel has assigned your thumb drive the sdb label.

Alternately, you can use the lsblk command to see all drives attached to your system, including their sizes and partitions.

Now that you have established where your drive is located in your filesystem, you can view udev information about that device with this command:

udevadm info -a -n /dev/sdb | less

This returns a lot of information. Focus on the first block of info for now.

further reading:

- https://wiki.archlinux.org/index.php/Udev#Mounting_drives_in_rules
- https://opensource.com/article/18/11/udev
- http://www.reactivated.net/writing_udev_rules.html
- http://jasonwryan.com/blog/2014/01/20/udev/