

# **Practice 6 . Regular expressions and filters**

## 1-Search from the directory /usr/src the directories that belong to the root.

```
adminsanti@servidorsanti:/usr/src$ ls
linux-headers-5.4.0-65  linux-headers-5.4.0-65-generic
adminsanti@servidorsanti:/usr/src$ ls -lr
total 8
drwxr-xr-x  7 root root 4096 Apr 28 11:26 linux-headers-5.4.0-65-generic
drwxr-xr-x 24 root root 4096 Apr 28 11:19 linux-headers-5.4.0-65
adminsanti@servidorsanti:/usr/src$
```

## 2-search from the directory var files that occupy more than 50 blocks and that have been modified less than 20 days ago.

Command “ find /var -size +50b -mtime -20”

```
The Virtual Machine reports that the guest OS supports mouse pointer integration. This means that you do not need to capture the mouse pointer to be able to use it in your guest OS -- all mouse actions you perform when the mouse pointer is over the Virtual
```

```
/var/log/syslog
/var/log/kern.log.1
/var/log/kern.log
/var/log/dmesg.0
/var/log/journal/5f61564a57d6463fa0cac26fa76f1eb5/user-1000.journal
/var/log/journal/5f61564a57d6463fa0cac26fa76f1eb5/system.journal
/var/log/cloud-init.log
/var/log/auth.log
/var/log/dmesg
/var/log/cloud-init-output.log
/var/log/lastlog
/var/log/syslog.2.gz
/var/log/syslog.3.gz
find: '/var/log/private': Permission denied
/var/log/syslog.1
/var/log/wtmp
find: '/var/lib/AccountsService/users': Permission denied
find: '/var/lib/update-notifier/package-data-downloads/partial': Permission denied
find: '/var/lib/polkit-1': Permission denied
find: '/var/lib/sudo/lectured': Permission denied
/var/lib/snapd/apparmor/profiles/snap.lxd.daemon
/var/lib/snapd/apparmor/profiles/snap-confine.snapd.11841
/var/lib/snapd/apparmor/profiles/snap.lxd.hook.configure
/var/lib/snapd/state.json.tJ6HhgtHCJXq~
/var/lib/snapd/state.json
find: '/var/lib/snapd/void': Permission denied
find: '/var/lib/snapd/cookie': Permission denied
/var/lib/snapd/snaps/lxd_20326.snap
/var/lib/snapd/snaps/lxd_19647.snap
/var/lib/snapd/snaps/snapd_11841.snap
/var/lib/snapd/snaps/core18_2066.snap
find: '/var/lib/private': Permission denied
find: '/var/lib/apt/lists/partial': Permission denied
find: '/var/lib/fwupd/gnupg': Permission denied
/var/lib/fwupd/remotes.d/lyfs/metadata.xml.gz
find: '/var/snap/lxd/common/lxd': Permission denied
adminsanti@servidorsanti:/home$ _
```



### 3-Change to the HOME directory. copy to that directory using find the regular files under the / etc directory that start with fs.

Command: find /etc -name "fs%" -exec cp {} /home \;

```
find: missing argument to -exec
adminsanti@servidoresanti:/home$ find /etc -name "fs%" -exec cp {} /home \;
find: '/etc/multipath': Permission denied
find: '/etc/polkit-1/localauthority': Permission denied
find: '/etc/ssl/private': Permission denied
adminsanti@servidoresanti:/home$
```

### 4-Write a regular expression (r) that recognizes a line of text that start with A or P followed by any character followed by a period and finish with any lowercase letter.

`^A/P..*[a-z]$`

## 5-Experiment the grep options with a regular expression

```
adminsanti@servidoresanti:/home$ ls | grep ad
adminsanti
adminsanti@servidoresanti:/home$ ls | grep '2$'
act8.2
ejemplocolumnas2
ejemplosort2
adminsanti@servidoresanti:/home$ ls | grep 'eje%'
adminsanti@servidoresanti:/home$ ls | grep "eje%"
adminsanti@servidoresanti:/home$ ls | grep '^eje'
ejemplo
ejemplocolumnas
ejemplocolumnas2
ejemplosort
ejemplosort2
adminsanti@servidoresanti:/home$
```

## 6. Use Grep with the previous regular expression.

```
adminsanti@servidoresanti:/etc$ ls | grep '^fs'  
fstab  
adminsanti@servidoresanti:/etc$ _
```

**7-Get a list of the files that have the following permissions:**



**- for the owner, reading and writing**

```
adminsanti@servidoresanti:~$ ls -l | grep ^.rw  
-rw--w-rw- 1 adminsanti adminsanti    44 May 21 17:26 ejemplopermisios  
-rw-r--r-- 1 adminsanti adminsanti 14156 Apr 29 15:10 shutdown  
adminsanti@servidoresanti:~$ _
```

**- for the group reading but not writing**

```
adminsanti@servidoresanti:~$ ls -l | grep ^....r-  
-rw-r--r-- 1 adminsanti adminsanti 14156 Apr 29 15:10 shutdown  
adminsanti@servidoresanti:~$
```

