Securium fox Technologies Pvt Ltd

Internship Day-8

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1. **FIND**

Find command is used to locate files and directories.
Find uses pattern matching and searches each and every file dynamically.

```
──(root💀kali)-[~]
└─# find | head
.
./Documents
./.cache
./.cache/obexd
./.cache/blueman-applet-0
./.cache/sessions
./.cache/sessions/xfce4-session-kali:0
./.cache/sessions/thumbs-kali:0
./.cache/sessions/thumbs-kali:0/Default.png
./.cache/sessions/xfce4-session-kali:0.bak

┌──(root💀kali)-[~]
└─# ls
cde.txt    Downloads    kali.txt    Pictures   teja.txt
Desktop    error.txt    Music       Public     Templates
Documents  install.log  output.txt  skype.txt  Videos

┌──(root💀kali)-[~]
└─# find -name teja.txt
./teja.txt
./Downloads/teja.txt
```

2. **wildcards**

? - represents any character but single character

- represents any character and multiple characters

```
┌──(root💀kali)-[~]
└─# ls
cde.txt    Downloads    kali.txt    Pictures  rvrjc1     teja.txt
Desktop    error.txt    Music       Public    rvrjcce3   Templates
Documents  install.log  output.txt  rvr1      skype.txt  Videos
┌──(root💀kali)-[~]
└─# ls -l rvr*
-rw-r--r-- 1 root root 6 Jun  7 13:24 rvr1
-rw-r--r-- 1 root root 7 Jun  7 13:25 rvrjc1
-rw-r--r-- 1 root root 7 Jun  7 13:25 rvrjcce3
┌──(root💀kali)-[~]
└─# find -name 'rvr*'
./rvrjc1
./rvrjcce3
./rvr1
┌──(root💀kali)-[~]
└─# find -name 'rvr?'
./rvr1
```

3. **GREP**

Search for PATTERNS in each FILE.
PATTERNS can contain multiple patterns separated by newlines.

```
┌──(root💀kali)-[~]
└─# cat animals.txt
lion
female lion
tiger
female tiger
leapord
parrot
peacock
cat
rat
dog
donkey
horse
hippo
penguin
```

```
cow
zebra
giraffe
snake

┌──(root💀kali)-[~]
└─# cat animals.txt | grep -F lion
lion
female lion

┌──(root💀kali)-[~]
└─# cat animals.txt | grep -w cow
cow
```

4. **CRON**

```
──(root💀kali)-[~]
└─# crontab -e
no crontab for root - using an empty one

Select an editor.  To change later, run 'select-editor'.
  1. /bin/nano        <---- easiest
  2. /usr/bin/vim.basic
  3. /usr/bin/vim.tiny

Choose 1-3 [1]: 1
No modification made

# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
```

```
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h  dom mon dow   command
* * * * * whoami >> /root/cronjobfile.txt
```

```
┌──(root💀kali)-[~]
└─# ls
animals.txt      Documents    kali.txt    Public    skype.txt
cde.txt          Downloads    Music       rvr1      teja.txt
cronjobfile.txt  error.txt    output.txt  rvrjc1    Templates
Desktop          install.log  Pictures    rvrjcce3  Videos
┌──(root💀kali)-[~]
└─# cat cronjobfile.txt
root
root
┌──(root💀kali)-[~]
└─# date
Tue 08 Jun 2021 03:23:51 AM EDT
┌──(root💀kali)-[~]
└─# date
Tue 08 Jun 2021 03:24:09 AM EDT
┌──(root💀kali)-[~]
└─# cat cronjobfile.txt
root
root
root
```

```
┌──(root💀kali)-[~]
└─# cd /etc
┌──(root💀kali)-[/etc]
└─# ls | grep cron
cron.d
cron.daily
cron.hourly
cron.monthly
crontab
cron.weekly
```

nano crontab

```
┌──(root💀kali)-[/etc]
└─# nano crontab
# /etc/crontab: system-wide crontab
# Unlike any other crontab you don't have to run the `crontab'
# command to install the new version when you edit this file
# and files in /etc/cron.d. These files also have username fields,
# that none of the other crontabs do.

SHELL=/bin/sh
PATH=/usr/local/sbin:/usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin

# Example of job definition:
# .---------------- minute (0 - 59)
# |  .------------- hour (0 - 23)
# |  |  .---------- day of month (1 - 31)
# |  |  |  .------- month (1 - 12) OR jan,feb,mar,apr ...
# |  |  |  |  .---- day of week (0 - 6) (Sunday=0 or 7) OR
sun,mon,tue,wed,t>
# |  |  |  |  |
# *  *  *  *  * user-name command to be executed

17 *    * * *   root    cd / && run-parts --report /etc/cron.hourly

25 6    * * *   root    test -x /usr/sbin/anacron || ( cd / && run-parts --
r>

47 6    * * 7   root    test -x /usr/sbin/anacron || ( cd / && run-parts --
r>

52 6    1 * *   root    test -x /usr/sbin/anacron || ( cd / && run-parts --
r>
#
```

5. **SUDO**

execute a command as another user

```
  -A, --askpass                 use a helper program for password
  -b, --background              run command in the background
  -B, --bell                    ring bell when prompting
  -C, --close-from=num          close all file descriptors >= num
  -D, --chdir=directory         change the working directory before running
                                command
  -E, --preserve-env            preserve user environment when running
                                command
      --preserve-env=list       preserve specific environment variables
  -e, --edit                    edit files instead of running a command
  -g, --group=group             run command as the specified group name or
ID
  -H, --set-home                set HOME variable to target user's home dir
  -h, --help                    display help message and exit
  -h, --host=host               run command on host (if supported by plugin)
  -i, --login                   run login shell as the target user; a
                                command may also be specified
  -K, --remove-timestamp        remove timestamp file completely
  -k, --reset-timestamp         invalidate timestamp file
  -l, --list                    list user's privileges or check a specific
                                command; use twice for longer format
```

```
┌──(root💀kali)-[~]
└─# su kali
┌──(kali㉿kali)-[/root]
└─$ whoami
kali
```