

[illegible]

Name	Scheduling: Cron Basics
URL	https://attackdefense.com/challengedetails?cid=1805
Type	Beginner Skills : Linux For Pentesters

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Objective: Analyze the scheduled cron jobs and answer the following questions:

Solution:

Q.1: Is the cron service running?

List the running processes

Command: ps -ef

```
root@attackdefense:~# ps -ef
UID          PID    PPID  C STIME TTY          TIME CMD
root           1         0  0  03:18 ?        00:00:00 /bin/bash /startup.sh
root          81         1  0  03:18 ?        00:00:00 /usr/local/bin/ttyd -p 8000 bash
root          82        81  0  03:20 pts/0    00:00:00 bash
root         100         1  0  03:21 ?        00:00:00 /usr/sbin/cron
root         102        82  0  03:21 pts/0    00:00:00 ps -ef
root@attackdefense:~#
```

/etc/sbin/cron service is running.

Answer: yes

Q.2: How many cron jobs are scheduled for the root user?

List all scheduled cron jobs.

Command: crontab -l

```
root@attackdefense:~# crontab -l
# 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
```

```
# m h dom mon dow  command
MAILTO="john@gmail.com"
10 14 1 * * /usr/local/maintain.script
10 0 * * * /bin/backup.local >/dev/null 2>&1
10 4 * * sat /scripts/check-patches
10 0-23/2 * * * /bin/backup
0 20 * * 1-5 /scripts/update
root@attackdefense:~#
```

Answer: 5

Q.3: Which binary is supposed to run 10 minutes after midnight, every day ?

Answer: /bin/backup.local

Q.4: Which binary is supposed to run at 2:10 PM on the first of every month?

Answer: /usr/local/maintain.script

Q.5: Which binary is supposed to run 10 minutes after midnight, 2 AM, 4 AM ..., everyday?

Answer: /bin/backup

Q.6: Which binary is supposed to run at 8 PM on weekdays?



Answer: /scripts/update

Q.7: Which binary is supposed to run at 10 after 4 every Saturday?

Answer: /scripts/check-patches

Q.8: On which email address the output of the schedules command/script will be sent?

Answer: john@gmail.com

Q.9: Cron job for which binary will not trigger an email?

Answer: /bin/backup.local