Cairo University
Faculty of Computers and Artificial Intelligence
Software Engineering Program

Software Engineering tools lab
Chapter 11 Task

جامعة القاهرة

Name: Khalid Ibrahim Abdallah Shawki   ID: 20206018

Chapter 11: Lab Task

1.


```
                              student@serverb:~                              ✕

File  Edit  View  Search  Terminal  Help
[student@workstation ~]$ ssh student@serverb
Activate the web console with: systemctl enable --now cockpit.socket

This system is not registered to Red Hat Insights. See https://cloud.redhat.com/
To register this system, run: insights-client --register

Last login: Tue Sep  1 08:19:05 2020 from 172.25.250.9
[student@serverb ~]$ █
```

2.


```
[student@workstation ~]$ ssh student@serverb
Activate the web console with: systemctl enable --now cockpit.socket

This system is not registered to Red Hat Insights. See https://cloud.redhat.com/
To register this system, run: insights-client --register

Last login: Tue Sep  1 08:19:05 2020 from 172.25.250.9
[student@serverb ~]$ timedatectl list-timezones | grep Jamaica
America/Jamaica
[student@serverb ~]$ sudo timedatectl set-timezone America/Jamaica
[sudo] password for student:
[student@serverb ~]$ timedatectl
               Local time: Sat 2022-01-01 15:42:25 EST
           Universal time: Sat 2022-01-01 20:42:25 UTC
                 RTC time: Sat 2022-01-01 20:42:25
                Time zone: America/Jamaica (EST, -0500)
System clock synchronized: yes
              NTP service: active
          RTC in local TZ: no
[student@serverb ~]$ █
```

3.

```
[student@serverb ~]$ date
Sat Jan  1 15:44:11 EST 2022
[student@serverb ~]$ date -d "-30 minuts"
date: invalid date '-30 minuts'
[student@serverb ~]$ date -d "-30 minutes"
Sat Jan  1 15:15:54 EST 2022
[student@serverb ~]$ journalctl --since 15:15:54 --until 15:44:11
Hint: You are currently not seeing messages from other users and the system.
      Users in the 'systemd-journal' group can see all messages. Pass -q to
      turn off this notice.
-- Logs begin at Sat 2022-01-01 15:31:15 EST, end at Sat 2022-01-01 15:42:03 ES>
Jan 01 15:31:15 servera.lab.example.com systemd-journald[277]: Received SIGTERM>
Jan 01 15:31:15 servera.lab.example.com kernel: printk: systemd: 20 output line>
Jan 01 15:31:15 servera.lab.example.com kernel: audit: type=1404 audit(16410690>
Jan 01 15:31:15 servera.lab.example.com kernel: SELinux:  policy capability net>
Jan 01 15:31:15 servera.lab.example.com kernel: SELinux:  policy capability ope>
Jan 01 15:31:15 servera.lab.example.com kernel: SELinux:  policy capability ext>
Jan 01 15:31:15 servera.lab.example.com kernel: SELinux:  policy capability alw>
Jan 01 15:31:15 servera.lab.example.com kernel: SELinux:  policy capability cgr>
Jan 01 15:31:15 servera.lab.example.com kernel: SELinux:  policy capability nnp>
Jan 01 15:31:15 servera.lab.example.com kernel: audit: type=1403 audit(16410690>
Jan 01 15:31:15 servera.lab.example.com systemd[1]: Successfully loaded SELinux>
Jan 01 15:31:15 servera.lab.example.com systemd[1]: Relabelled /dev, /run and />
Jan 01 15:31:15 servera.lab.example.com systemd[1]: systemd 239 running in syst>
```

4.

```
[student@serverb ~]$ sudo vim /etc/rsyslog.d/auth-errors.conf
[sudo] password for student:
[student@serverb ~]$
```

```
                                    student@serverb:~

 File  Edit  View  Search  Terminal  Help

authpriv.alert /var/log/auth-errors
~
~
~
~
~
~
```

5.

```
[student@serverb ~]$ sudo systemctl restart rsyslog
[student@serverb ~]$ logger -p authpriv.alert "Logging test authpriv.alert"
[student@serverb ~]$ sudo tail /var/log/auth-errors
Jan  1 16:00:33 serverb student[1330]: Logging test authpriv.alert
[student@serverb ~]$ exit
logout
Connection to serverb closed.
[student@workstation ~]$
```