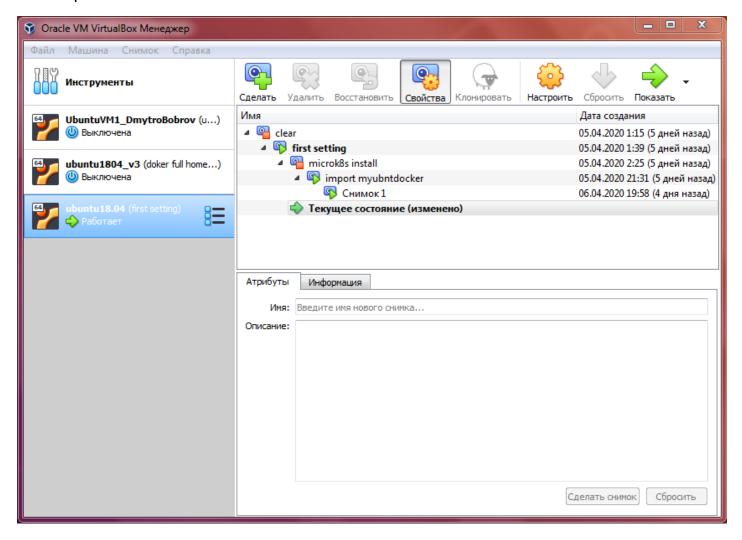
EPAM University Programs DevOps external course Module 4 DevOps Introduction TASK 4.2

1. Set up Linux Virtual Machine in VirtualBox.



2. Familiarize yourself with the commands and utilities listed in the presentation (switching between **virtual terminals** (consoles); **printenv**; content of **/etc/profile** and **~/.bash_profile**, **\$echo \$HISTFILE \$HISTSIZE \$HISTFILESIZE**, **who**, **w**, **whoami**, **id**). Make 5 screenshots.

```
bobrov@bobrov-VirtualBox:~$ printenv SHELL
/bin/bash
bobrov@bobrov-VirtualBox:~$ printenv SHELL HOME
/bin/bash
/home/bobrov
bobrov@bobrov-VirtualBox:~$
```

printenv SHELL
printenv HOME

nano /etc/profile

```
# /etc/profile: system-wide .profile file for the Bourne shell (sh(1))
# and Bourne compatible shells (bash(1), ksh(1), ash(1), ...).
if [ "${PS1-}" ]; then
  if [ "${BASH-}" ] && [ "$BASH" != "/bin/sh" ]; then
    # The file bash.bashrc already sets the default PS1.
    # PS1='\h:\w\$ '
    if [ -f /etc/bash.bashrc ]; then
     . /etc/bash.bashrc
    fi
  else
    if [ "`id -u`" -eq 0 ]; then
      PS1='# '
    else
      PS1='$ '
    fi
  fi
fi
if [ -d /etc/profile.d ]; then
  for i in /etc/profile.d/*.sh; do
    if [ -r $i ]; then
     . $i
    fi
  done
  unset i
```

echo

```
bobrov@bobrov-VirtualBox:~$ echo -e "Бобров \пДмитрий \пАлександрович"
Бобров
Дмитрий
Александрович
bobrov@bobrov-VirtualBox:~$ echo -e "Бобров \vДмитрий \vАлександрович"
Бобров
Дмитрий
Александрович
bobrov@bobrov-VirtualBox:~$ echo "Бобров Дмитрий Александрович" > name
bobrov@bobrov-VirtualBox:~$ cat name
Бобров Дмитрий Александрович
bobrov@bobrov-VirtualBox:~$ []
```

echo \$HISTFILE \$HISTSIZE \$HISTFILESIZE

root@bobrov-VirtualBox:~# echo \$HISTFILE \$HISTSIZE \$HISTFILESIZE /root/.bash history 1000 2000

```
(who-a) (w) (whoami) (id)
```

```
bobrov@bobrov-VirtualBox:~$ who -a
          system boot 2020-04-12 00:07
          run-level 5 2020-04-12 00:07
       - pts/0
                     2020-04-12 00:08 13:47
                                                  1264 (10.0.1.3)
bobrov
bobrov
                      2020-04-12 13:45 ?
                                                  1748 (:0)
bobrov - pts/3
                     2020-04-12 13:45
                                                  2589 (10.0.1.3)
bobrov@bobrov-VirtualBox:~$ w
14:38:28 up 1:45, 3 users, load average: 0,00, 0,01, 0,00
                                LOGIN@ IDLE JCPU PCPU WHAT
USER
       TTY
                FROM
bobrov
        pts/0
                10.0.1.3
                                00:08
                                        13:47m 0.15s 0.15s -bash
                                13:45
                                        ?xdm? 34.40s 0.00s /usr/lib/gdm3/gdm-x-ses
bobrov :0
                :0
        pts/3
                10.0.1.3
                                13:45
                                       2.00s 0.06s 0.00s w
bobrov
bobrov@bobrov-VirtualBox:~$ whoami
bobrov
bobrov@bobrov-VirtualBox:~$ id
uid=1000(bobrov) gid=1000(bobrov) groups=1000(bobrov),4(adm),24(cdrom),27(sudo),30(dip),
46(plugdev),116(lpadmin),126(sambashare)
```

3. Familiarize yourself with the commands (*uname, hostname, uptime, shutdown, halt, reboot, init...*). Make 5 screenshots.

uname

```
bobrov@bobrov-VirtualBox:~$ uname
Linux
bobrov@bobrov-VirtualBox:~$ uname -a
Linux bobrov-VirtualBox 5.3.0-45-generic #37~18.04.1-Ubuntu SMP Fri Mar 27 15:58:10 UTC
2020 x86_64 x86_64 x86_64 GNU/Linux
bobrov@bobrov-VirtualBox:~$ uname -n
bobrov-VirtualBox
bobrov@bobrov-VirtualBox:~$ uname -r
5.3.0-45-generic
bobrov@bobrov-VirtualBox:~$ uname -v
#37~18.04.1-Ubuntu SMP Fri Mar 27 15:58:10 UTC 2020
bobrov@bobrov-VirtualBox:~$ uname -m
x86 64
```

hostname

```
bobrov@bobrov-VirtualBox:~$ hostname
bobrov-VirtualBox
bobrov@bobrov-VirtualBox:~$ hostname -i
127.0.1.1
bobrov@bobrov-VirtualBox:~$ hostname -I
10.0.1.4
bobrov@bobrov-VirtualBox:~$ hostname -V
hostname 3.20
```

uptime

```
bobrov@bobrov-VirtualBox:~$ uptime
15:20:05 up 2:27, 3 users, load average: 0,03, 0,03, 0,00
bobrov@bobrov-VirtualBox:~$ uptime -p
up 2 hours, 27 minutes
bobrov@bobrov-VirtualBox:~$ uptime -s
2020-04-12 12:52:29
bobrov@bobrov-VirtualBox:~$ uptime -V
uptime from procps-ng 3.3.12
```

shutdown

```
root@bobrov-VirtualBox:~# shutdown 5
Shutdown scheduled for Sun 2020-04-12 16:19:34 EEST, use 'shutdown -c' to cancel.
root@bobrov-VirtualBox:~# shutdown -c
```

reboot after 5 minutes via (shutdown -r +5)

```
root@bobrov-VirtualBox:~# shutdown -r +5
Shutdown scheduled for Sun 2020-04-12 16:26:25 EEST, use 'shutdown -c' to cancel.
```

4. Familiarize yourself with the help commands (*man, info, find, locate, whereis, less | zless in /usr/share/doc*). Make 5 screenshots.

find / -name .bashrc

```
root@bobrov-VirtualBox:~# find / -name .bashrc
/home/bobrov/.bashrc
/etc/skel/.bashrc
/root/.bashrc
/snap/core/8935/etc/skel/.bashrc
/snap/core/8935/root/.bashrc
/snap/core/8268/etc/skel/.bashrc
/snap/core/8268/root/.bashrc
/snap/core18/1668/etc/skel/.bashrc
/snap/core18/1668/root/.bashrc
/snap/core18/1705/etc/skel/.bashrc
/snap/core18/1705/root/.bashrc
```

locate .bashrc

```
oot@bobrov-VirtualBox:~# locate .bashrc
/etc/bash.bashrc
/etc/skel/.bashrc
/home/bobrov/.bashrc
/root/.bashrc
/snap/core/8268/etc/bash.bashrc
/snap/core/8268/etc/skel/.bashrc
/snap/core/8268/root/.bashrc
/snap/core/8268/usr/share/base-files/dot.bashrc
/snap/core/8935/etc/bash.bashrc
/snap/core/8935/etc/skel/.bashrc
/snap/core/8935/root/.bashrc
/snap/core/8935/usr/share/base-files/dot.bashrc
/snap/core18/1668/etc/bash.bashrc
/snap/core18/1668/etc/skel/.bashrc
/snap/core18/1668/root/.bashrc
/snap/core18/1668/usr/share/base-files/dot.bashrc
/snap/core18/1705/etc/bash.bashrc
/snap/core18/1705/etc/skel/.bashrc
/snap/core18/1705/root/.bashrc
/snap/core18/1705/usr/share/base-files/dot.bashrc
/usr/share/base-files/dot.bashrc
/usr/share/doc/adduser/examples/adduser.local.conf.examples/bash.bashrc
/usr/share/doc/adduser/examples/adduser.local.conf.examples/skel/dot.bashrc
```

whereis

root@bobrov-VirtualBox:~# whereis profile profile: /etc/profile.d /etc/profile

less -N /etc/profile

```
1 # /etc/profile: system-wide .profile file for the Bourne shell (sh(1))
 2 # and Bourne compatible shells (bash(1), ksh(1), ash(1), ...).
4 if [ "${PS1-}" ]; then
5 if [ "${BASH-}" ] && [ "$BASH" != "/bin/sh" ]; then
      # The file bash.bashrc already sets the default PS1.
      # PS1='\h:\w\$ '
8
      if [ -f /etc/bash.bashrc ]; then
9
      . /etc/bash.bashrc
      fi
10
11
    else
12
      if [ "`id -u`" -eq 0 ]; then
13
       PS1='# '
14
      else
       PS1='$ '
15
16
      fi
17 fi
18 fi
19
20 if [ -d /etc/profile.d ]; then
21 for i in /etc/profile.d/*.sh; do
22
23
24
      fi
25
26 unset i
27 fi
```

zless -N /usr/share/doc/libsnmp30/AGENT.txt.gz

```
1 Note, this is based on the text from a web page, which can be found in
    2 the documentation section of the http://www.net-snmp.org web page.
    4 Extending the UCD-SNMP agent
     5 =========
    7 This document describes the procedure for writing code to extend
    8 the functionality of the v4 UCD-SNMP network management agent.
    9 Modules written using this procedure should also work with the v5
    10 Net-SNMP agent, though such modules would not take advantage of the
    11 new handler-based helper mechanism. See the on-line documentation
    12 for more information and examples of the newer approach.
   13 We would be very interested in comment and feedback about how useful
    14 (or otherwise) you find this description, and ways in which it could
   15 be improved.
    16
    17 The information is designed to be read in order - the structure being:
    18
    19
        1. Overview & Introduction
        2. MIB files, and how they relate to the agent implementation
    21
        Header files
    22
        4. The basic structure of module implementation code
    23
        5. The details of non-table based implementations
        6. The details of simple table based implementations
        7. The details of more general table based implementations
    25
    26
        8. How to implement SET-able variables
    27
    28 While the document is intended to be generally self-contained,
    29 it does occasionally refer to code files shipped with the main UCD
    30 distribution (in particular the example module), and it may prove
    31 useful to have these files available for reference.
    32
    33 1. How to write a Mib module
    34 ===========
    35
usr/share/doc/libsnmp30/AGENT.txt.gz
```

man hier

/usr/share/doc

Documentation about installed programs (optional).