4. Работа с операционной системой Linux

1. Изменить конфигурацию ОС:

- изменить hostname

```
┌──(esorleo💀MSI)-[/mnt/c/Users/es0rle0h4ck
└─$ hostname
MSI

┌──(esorleo💀MSI)-[/mnt/c/Users/es0rle0h4ck
└─$ sudo hostnamectl set-hostname es0rle0
[sudo] password for esorleo:

┌──(esorleo💀MSI)-[/mnt/c/Users/es0rle0h4ck
└─$ hostname
es0rle0
```

- изменить timezone

```
┌──(esorleo💀MSI)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсё
└─$ timedatectl
               Local time: Fri 2026-01-09 15:59:28 CST
          Universal time: Fri 2026-01-09 21:59:28 UTC
                RTC time: Fri 2026-01-09 15:59:35
               Time zone: America/Costa_Rica (CST, -0600)
System clock synchronized: no
             NTP service: n/a
          RTC in local TZ: no

┌──(esorleo💀MSI)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсё
└─$ sudo timedatectl set-timezone Europe/Moscow
sudo: unable to resolve host es0rle0: Temporary failure in

┌──(esorleo💀MSI)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсё
└─$ hostname
es0rle0

┌──(esorleo💀MSI)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсё
└─$ sudo nano /etc/hosts
sudo: unable to resolve host es0rle0: Temporary failure in

┌──(esorleo💀MSI)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсё
└─$ timedatectl
               Local time: Sat 2026-01-10 01:04:44 MSK
          Universal time: Fri 2026-01-09 22:04:44 UTC
                RTC time: Fri 2026-01-09 16:05:20
               Time zone: Europe/Moscow (MSK, +0300)
System clock synchronized: no
             NTP service: n/a
          RTC in local TZ: no
```

- установить любой баннер при логине пользователя (MOTD)

2. Добавить в репозиторий скриншоты:

- подключения к ВМ через SSH с напечатанным выводом MOTD

```
PS C:\Users\es0rle0h4ck> ssh esorleo@localhost
esorleo@localhost's password:
Linux es0rle0 6.6.87.2-microsoft-standard-WSL2 #1 SMP PREEMPT_DYNAMIC Thu Jun  5 18:30:46 UTC 2025 x86_64
**************************************************
*                                                *
*       WELCOME TO DEVOPS WSL ENVIRONMENT         *
*                                                *
*       AUTHORIZED USERS ONLY                     *
*                                                *
*       User: root                               *
*       Host: es0rle0                            *
*                                                *
**************************************************
The programs included with the Kali GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
Last login: Sat Jan 10 16:41:31 2026 from 127.0.0.1
┌──(Message from Kali developers)
│
│  This is a minimal installation of Kali Linux, you likely
│  want to install supplementary tools. Learn how:
│  ⇒ https://www.kali.org/docs/troubleshooting/common-minimum-setup/
│
└──(Run: "touch ~/.hushlogin" to hide this message)
┌──(esorleo㉿es0rle0)-[~]
└─$
```

- Системную информацию о:

о версии ядра

```
┌──(esorleo㉿es0rle0)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсёвое обучалово/codeby-devops/lesson4]
└─$ uname -a
Linux es0rle0 6.6.87.2-microsoft-standard-WSL2 #1 SMP PREEMPT_DYNAMIC Thu Jun  5 18:30:46 UTC 2025 x86_64 GNU/Linux
```

о модулях ядра (loaded and active)

```
┌──(esorleo㉿es0rle0)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсёвое обучалово/codeby-devops/lesson4]
└─$ lsmod
Module                  Size  Used by
intel_rapl_msr         16384  0
intel_rapl_common      32768  1 intel_rapl_msr
kvm_intel             356352  0
kvm                   970752  1 kvm_intel
irqbypass              12288  1 kvm
battery                20480  0
ac                     16384  0
crc32c_intel           16384  0
sch_fq_codel           16384  1
configfs               53248  1
autofs4                45056  0
br_netfilter           28672  0
bridge                282624  1 br_netfilter
stp                    12288  1 bridge
llc                    12288  2 bridge,stp
ip_tables              28672  0
tun                    53248  0
```

о информацию о ресурсах (CPU and Memory)

```
┌──(esorleo⊛es0rle0)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсёвое обучалово/codeby-devops/lesson4]
└─$ lscpu
Architecture:              x86_64
  CPU op-mode(s):          32-bit, 64-bit
  Address sizes:           39 bits physical, 48 bits virtual
  Byte Order:              Little Endian
CPU(s):                    32
  On-line CPU(s) list:     0-31
Vendor ID:                 GenuineIntel
  Model name:              13th Gen Intel(R) Core(TM) i9-13980HX
    CPU family:            6
    Model:                 183
    Thread(s) per core:    2
    Core(s) per socket:    16
    Socket(s):             1
    Stepping:              1
    BogoMIPS:              4838.40
    Flags:                 fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ss ht syscall
                           nx pdpe1gb rdtscp lm constant_tsc rep_good nopl xtopology tsc_reliable nonstop_tsc cpuid tsc_known_freq pni pclm
                           ulqdq vmx ssse3 fma cx16 pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand hyp
                           ervisor lahf_lm abm 3dnowprefetch ssbd ibrs ibpb stibp ibrs_enhanced tpr_shadow ept vpid ept_ad fsgsbase tsc_adj
                           ust bmi1 avx2 smep bmi2 erms invpcid rdseed adx smap clflushopt clwb sha_ni xsaveopt xsavec xgetbv1 xsaves avx_v
                           nni vnmi umip waitpkg gfni vaes vpclmulqdq rdpid movdiri movdir64b fsrm md_clear serialize flush_l1d arch_capabi
                           lities
Virtualization features:
  Virtualization:          VT-x
  Hypervisor vendor:       Microsoft
  Virtualization type:     full
Caches (sum of all):
  L1d:                     768 KiB (16 instances)
  L1i:                     512 KiB (16 instances)
  L2:                      32 MiB (16 instances)
  L3:                      36 MiB (1 instance)
NUMA:
  NUMA node(s):            1
  NUMA node0 CPU(s):       0-31
Vulnerabilities:
  Gather data sampling:    Not affected
  Itlb multihit:           Not affected
  L1tf:                    Not affected
  Mds:                     Not affected
  Meltdown:                Not affected
  Mmio stale data:         Not affected
  Reg file data sampling:  Vulnerable: No microcode
  Retbleed:                Mitigation; Enhanced IBRS
  Spec rstack overflow:    Not affected
  Spec store bypass:       Mitigation; Speculative Store Bypass disabled via prctl
  Spectre v1:              Mitigation; usercopy/swapgs barriers and __user pointer sanitization
  Spectre v2:              Mitigation; Enhanced / Automatic IBRS; IBPB conditional; RSB filling; PBRSB-eIBRS SW sequence; BHI BHI_DIS_S
  Srbds:                   Not affected
  Tsx async abort:         Not affected


┌──(esorleo⊛es0rle0)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсёвое обучалово/codeby-devops/lesson4]
└─$ free -h
               total        used        free      shared  buff/cache   available
Mem:           15Gi       754Mi        14Gi       3.6Mi       337Mi        14Gi
Swap:          4.0Gi          0B       4.0Gi
```

о информацию о пользователях и группах

```
  ┌──(esorleo㉿es0rle0)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсёвое обучалово/codeby-devops/lesson4]
  └─$ whoami
esorleo

  ┌──(esorleo㉿es0rle0)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсёвое обучалово/codeby-devops/lesson4]
  └─$ id
uid=1000(esorleo) gid=1000(esorleo) groups=1000(esorleo),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),100(users),992(ollama)

  ┌──(esorleo㉿es0rle0)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсёвое обучалово/codeby-devops/lesson4]
  └─$ cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management::/usr/sbin/nologin
dhcpcd:x:100:65534:DHCP Client Daemon,,,:/usr/lib/dhcpcd:/bin/false
messagebus:x:101:102::/nonexistent:/usr/sbin/nologin
tcpdump:x:102:103::/nonexistent:/usr/sbin/nologin
sshd:x:103:65534::/run/sshd:/usr/sbin/nologin
esorleo:x:1000:1000:,,,:/home/esorleo:/bin/bash
ollama:x:999:992::/usr/share/ollama:/bin/false

  ┌──(esorleo㉿es0rle0)-[/mnt/c/Users/es0rle0h4ck/Desktop/Девопсёвое обучалово/codeby-devops/lesson4]
  └─$ cat /etc/group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:esorleo
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:
fax:x:21:
voice:x:22:
cdrom:x:24:esorleo
floppy:x:25:
tape:x:26:
sudo:x:27:esorleo
audio:x:29:
dip:x:30:esorleo
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
shadow:x:42:
utmp:x:43:
video:x:44:ollama
```