Linux administration

PART 1

```
1 running, 116 sleeping,
0.2 sy, 0.0 ni, 99.8 id,
otal, 306.8 free,
Tasks: 117 total,   1 run
%Cpu(s):  0.0 us,  0.2 sy
4iB Mem :    981.0 total,
                                                                                   ó zombie
                                                                 O stopped,
                                                 :100ping
99.8 id, 0.0 wa,
1000 216.8 used,
1000 216.8 used.
                          0.2 sy,
                                                                            0.0 hi, 0.0 si, 0.
, 457.5 buff/cache
                                                                                                     0.0 st
MiB Mem :
                1750.0 total,
                                       1746.0 free,
                                                                4.0 used.
                                                                                  595.9 avail Mem
MiB Swap:
     PID USER
                        PR NI
                                      VIRT
                                                  RES
                                                            SHR S
                                                                     %CPU %MEM
                                                                                           TIME+ COMMAND
                                                                                        0:04.37 systemd
0:00.00 kthreadd
                                    103516
                                               13216
          root
                                                                 88111181888888881181888881888111
                        20
                                                                               0.0
          root
          root
                             -20
                                                                                        0:00.00 rcu_gp
          root
                                                                               0.0
                                                                                        0:00.00 rcu_par_gp
                            -20
                                                                               0.0
                                                                                        0:00.00 kworker/0:0H-kblockd
          root
                             -20
                                                                               0.0
                                                                                        0:00.00 mm_percpu_wq
          root
                                                                                        0:00.12 ksoftirqd/0
0:01.58 rcu_sched
0:00.02 migration/0
          root
                         20
       10 root
                                                                               0.0
       11
                                                                               0.0
          root
                        -51
                                                                               0.0
                                                                                        0:00.00 idle_inject/0
          root
       14
          root
                        20
                                                                                        0:00.00 cpuhp/0
          root
                                                                                        0:00.00 cpuhp/1
                                                                               0.0
                                                                                        0:00.00 idle_inject/1
          root
                                                                                        0:00.34 migration/1
0:00.11 ksoftirqd/1
0:01.20 kworker/1:0–events
0:00.00 kworker/1:0H–kblockd
                                                                               0.0
       17
          root
       18
          root
                        20
                                                                               0.0
          root
                        20
                                                                               0.0
          root
                              -20
                                                                               0.0
                                                                                        0:00.04 kdevtmpfs
          root
                        20
          root
                             -20
                                                                                        0:00.00 netns
                                                                                        0:00.00 rcu_tasks_kthre
0:00.00 kauditd
                        20
          root
      24
                        20
          root
                        20
                                                                               0.0
                                                                                        0:00.00 khungtaskd
          root
          root
                         20
                                                                               0.0
                                                                                        0:00.00 oom_reaper
          root
                                                                       0.0
                                                                               0.0
                                                                                        0:00.00 writeback
          root
                        20
                                                                                        0:00.00 kcompactd0
                                                                       0.0
                                                                               0.0
                                                                                        0:00.00 ksmd
          root
          root
                         39
                              19
                                                                               0.0
                                                                                        0:00.00 khugepaged
       77
                             -20
                                                                       0.0
                                                                               0.0
                                                                                        0:00.00 kintegrityd
          root
                                                                                        0:00.00 kblockd
          root
                                                                       0.0
                                                                               0.0
                                                                               0.0
                                                                       0.0
                                                                                        0:00.00 blkcg_punt_bio
          root
```

Screenshot 1 - Процессы и их состояния

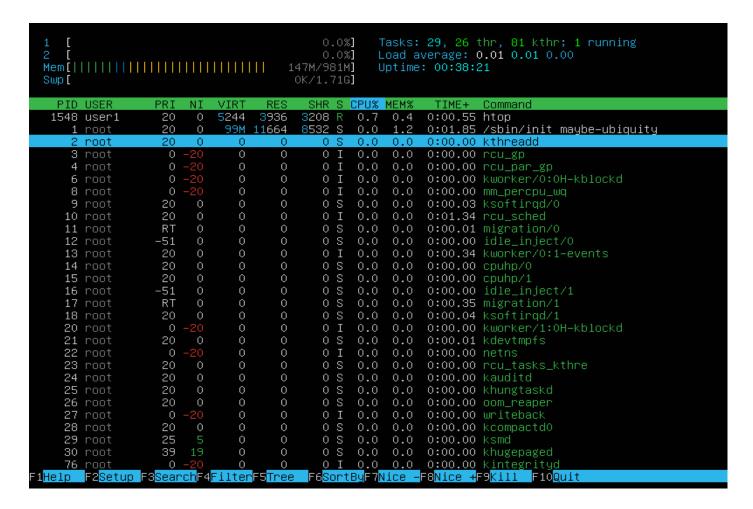
```
(cgroup, ipc, mnt, net, pid, user, uts)
show PIDs; implies –c
show parents of the selected process
show namespace transitions
  −p, −−show−pids
  -s, ––show–parents
  -S, --ns-changes
  −t, −−thread−names
                            show full thread names
                            hide threads, show only processes
  -T, --hide-threads
                            show uid transitions
use UTF–8 (Unicode) line drawing characters
       --uid-changes
  −u,
  −U, −−unicode
                            display version information
       --version
       --security-context
                            show SELinux security contexts
  PID
           start at this PID; default is 1 (init)
  USER
           show only trees rooted at processes of this user
user1@host1:~$ pstree –h 1066
user1@host1:~$ pstree –h
             accounts-daemon--2*[{accounts-daemon}]
sustemd
            -atd
            -cron
            -dbus-daemon
            −irqbalance−
                             -{irqbalance}
            -login──bash─
                               —pstree
            -multipathd---6*[{multipathd}]
            -networkd-dispat
            -networku-dispat
-polkitd--2*[{polkitd}]
-rsyslogd--3*[{rsyslogd}]
-snapd--10*[{snapd}]
-systemd---(sd-pam)
            -systemd-journal
             systemd–logind
            -systemd–network
            −sẏ̃stemd–resolve
             systemd–timesyn
                                    {systemd-timesyn}
            -systemd-udevd
└─unattended–upgr
user1@host1:~$ _
                                   −{unattended–upgr}
```

```
vendor_id
                           AuthenticAMD
cpu family
node1
model name
                           AMD FX(tm)-8300 Eight-Core Processor
stepping
microcode
                         : 0x6000626
                         : 3311.064
: 2048 KB
cpu MHz
cache size
physical id
siblings
core id
cpu cores
apicid
initial apicid
fpu
                           ues
fpu_exception cpuid level
                         : yes
                         : 13
                         : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mm
x fxsr sse sse2 ht syscall nx mmxext fxsr_opt rdtscp lm constant_tsc rep_good nopl nonstop_tsc cpuid
extd_apicid tsc_known_freq pni pclmulqdq ssse3 cx16 sse4_1 sse4_2 x2apic popcnt aes xsave avx hyper
visor lahf_lm cmp_legacy cr8_legacy abm sse4a misalignsse 3dnowprefetch ssbd vmmcall arat
                        : fxsave_leak sysret_ss_attrs null_seg spectre_v1 spectre_v2 spec_store_bypass
: 6622.12
bugs
bogomips
                        : 1536 4K pages
: 64
TLB size
clflush size
 cache_alignment : 64
address sizes
                        : 48 bits physical, 48 bits virtual
power management:
processor
                        : AuthenticAMD
vendor_id
                        : 21
cpu family
model
nodel name
                         : AMD FX(tm)-8300 Eight-Core Processor
```

Screenshot 3 – cpuinfo вывод информации о процессоре

```
00:00:00 jbd2/sda2–8
    558 ?
559 ?
560 ?
                  00:00:00 ext4-rsv-conver
                  00:00:00 loop3
                  00:00:00 loop4
    561 ?
                            100p5
    562
                  00:00:00 loop6
    582
                  00:00:00 systemd-timesyn
                  00:00:00 systemd-network
    623
                  00:00:00 bond0
    625 ?
    629 ?
641 ?
644 ?
                  00:00:00 systemd-resolve
                  00:00:00 accounts-daemon
                  00:00:00 cron
    645
                  00:00:00 dbus-daemon
                  00:00:00 irqbalance
    650
    652
                  00:00:00 networkd-dispat
    653
                  00:00:00 rsyslogd
    656
                  00:00:01 snapd
                  00:00:00 systemd-logind
    659
                  00:00:00 atd
                  00:00:00 unattended-upgr
00:00:00 polkitd
    698
    715
    995
        tty1
                  00:00:00 login
   1074
                  00:00:00 systemd
   1075
                  00:00:00 (sd-pam)
   1080 tty1
                  00:00:00 bash
                  00:00:00 kworker/u4:2-events_power_efficient
   1109
   1125 tty1
   1126
                  00:00:00 kworker/u4:0-events_power_efficient
   1129 tty1
                  00:00:00 ps
ıser1@host1:~$ ps au |
                         less
USER
              PID %CPU %MEM
                                 VSZ
                                       RSS
                                                      STAT START
                                                                     TIME COMMAND
                                                           07:23
07:23
              995
                   0.0
                         0.4
                                5996
                                      4196
                                            tty1
                                                                    0:00 /bin/login -p --
root
                                      5192
             1080
                   0.0
                         0.5
                                7068
                                            ttū1
                                                                    0:00 -bash
user1
                                           tty1
             1125
                                4620
                                      2256
                                                                    0:00 less
user1
                                                                    0:00 ps au
                   0.0
                         0.3
                                      3388
                                                      R+
                                                           07:35
user1
                                7648
                                            tty1
                                      2276 tty1
             1132
                         0.2
                                                      S+
                                                                    0:00 less
user1
                   0.0
                                4620
                                                           07:35
(END)
```

Screenshot 4 – ps вывод процессов



Screenshot 5 – htop выведение процессов, зеленым отмечены kernel процессы

```
[kworker/1:0–cgroup_destroy]
                              2
oot
               1521
                                                      1 07:55
                                                                            00:00:00
                                                                                        [kworker/u4:0-events_power_effine
ient]
                                                      0 07:58
1 08:06
                                                      0 07:58 ?
1 08:06 ?
0 08:08 ?
                                                                                        [kworker/0:0-events]
                                                                            00:00:00
root
               1562
                                                                            00:00:00
                                                                                        [kworker/u4:1-events_unbound]
root
                                                                            00:00:00 [kworker/0:2-events]
root
                                        ps –FU root | less
[21]+ Stopped
user1@host1:~$ ps –FU user1 |
                                      less
                PID
                         PPID
                                              RSS PSR STIME TTY
                                                                                 TIME CMD
00:00 /lib/systemd/systemd ––user
10:00 (sd–pam)
UID
                                     4675 10048
25866 3516
1767 5192
                                                        07:23
07:23
               1074
user1
                          1074
                                 0 25866
user1
               1075
                                                                            00:00:00
                                                      0 07:23
0 07:31
0 07:35
                          995
1080
                                     1767
1155
                                                                tty1
tty1
               1080
                                                                            00:00:00
                                                                                        -bash
user1
                                             2256
user1
                                                                tty1
user1
               1132
                          1080
                                     1155
                                             2276
                                                                                        less
               1147
                          1080
                                     1155
                                             2260
                                                                            00:00:00
                                                                                        less
user1
                                                        07:36
07:44
                                                                tty1
               1149
                          1080
                                     1155
                                             2256
                                                                            00:00:00
user1
                                                                                        less
               1516
                          1080
                                     1155
                                             2256
                                                                            00:00:00
user1
                                                                                        less
               1518
1556
                                     1155
                                                                tty1
user1
                          1080
                                             2284
                                                        07:45
                                                                            00:00:00
                                                                                        less
                          1080
                                     1155
                                                        08:03
                                                                ttý1
                                             2192
                                                                            00:00:00
                                                                                        less
user1
               1557
1559
                                     2011
1155
                                                                tty1
                          1080
                                             4004
                                                      0 08:04
                                                                            00:00:00
                                                                                        top
user1
                                                                tty1
tty1
                          1080
                                             2256
                                                      0 08:05
user1
                                                                                        less
                                     1155
1155
1155
1155
1155
1155
1155
                                                      0 08:05
0 08:06
               1561
                                             2276
                                                                            00:00:00
                          1080
                                                                                        less
user1
               1564
                                                      0 08:06
0 08:06
0 08:07
0 08:07
                                                                tty1
tty1
                          1080
                                             2276
                                                                            00:00:00
                                                                                        less
user1
user1
               1566
                          1080
                                             2288
                                                                            00:00:00
                                                                                        less
               1568
                                                                tty1
                          1080
                                             2280
                                                                                        less
user1
                                                                            00:00:00
               1570
                                             2276
2280
user1
                          1080
                                                                            00:00:00
                                                                                        less
               1573
1575
                                                                tty1
                          1080
                                                                            00:00:00
                                                                                        less
user1
user1
                          1080
                                             2280
                                                        08:08
                                                                                        less
               1577
1579
                                     1155
                                                                tty1
                          1080
                                             2232
                                                         08:08
                                                                            00:00:00
                                                                                        less
user1
                                             2260
                          1080
                                     1155
                                                         08:08
                                                                            00:00:00
user1
                                                                                        less
               1581
                          1080
                                     1155
                                                         08:08
                                                                            00:00:00
user1
                                             2228
                                                                tty1
                                                                                        less
                                                        08:11
08:11
user1
               1588
                          1080
                                     1155
                                             2260
                                                                tty1
                                                                            00:00:00
                                                                                        less
                                                                ttÿ1
user1
               1590
                          1080
                                             2280
                                                                            00:00:00
                                                                                        less
               1592
                                     1912
                                                         08:12
                                                                 ttų1
                          1080
                                             3412
                                                                            00:00:00 ps -FU user1
user1
               1593
                          1080
                                     1155
                                             2260
                                                      0 08:12 ttū1
                                                                            00:00:00 less
user1
(END)
```

 $Screenshot\ 6-ps\ ext{-}FU$ выведение процессов выбраного пользователя

JID	PID	PPID		STIME		TIME	
root	2	0	0	07:20	?	00:00:00	[kthreadd]
root	3	2	0	07:20	?	00:00:00	[rcu_gp]
root	4	2	0	07:20	?	00:00:00	[rcu_par_gp]
root	6	2	0	07:20	?	00:00:00	[kworker/0:OH–kblockd]
root	8	2	0	07:20	?	00:00:00	[mm_percpu_wq]
root	9	2	0	07:20	?	00:00:00	[ksoftirqd/0]
root	10	2	0	07:20	?	00:00:04	[rcu_sched]
root	11	2	0	07:20	?	00:00:00	[migration/0]
root	12	2	0	07:20	?	00:00:00	[idle_inject/0]
root	13	2	0	07:20	?	00:00:00	[kworker/0:1–events]
root	14	2	0	07:20	?	00:00:00	[cpuhp/0]
root	15	2	0	07:20	?	00:00:00	[cpuhp/1]
root	16	2	0	07:20	?	00:00:00	[idle_inject/1]
root	17	2	0	07:20	?	00:00:00	[migration/1]
root	18	2	0	07:20	?	00:00:00	[ksoftirqd/1]
root	20	2	0	07:20	?	00:00:00	[kworker/1:OH-kblockd]
root	21	2	0	07:20	?	00:00:00	[kdevtmpfs]
root	22	2	0	07:20	?	00:00:00	[netns]
root	23	2	0	07:20	?	00:00:00	[rcu_tasks_kthre]
root	24	2	0	07:20	?	00:00:00	[kauditd]
root	25	2	0	07:20	?	00:00:00	[khungtaskd]
root	26	2	0	07:20	?	00:00:00	[oom_reaper]
root	27	2	0	07:20	?	00:00:00	[writeback]
root	28	2	0	07:20	?	00:00:00	[kcompactd0]
root	29	2	0	07:20	?	00:00:00	[ksmd]
root	30	2	0	07:20	?	00:00:00	[khugepaged]
root	76	2	0	07:20	?	00:00:00	[kintegrityd]
root	77	2	0	07:20	?	00:00:00	[kblockd]
root	78	2	0	07:20	?	00:00:00	[blkcg_punt_bio]
root	79	2	0	07:20	?	00:00:00	[tpm_dev_wq]
root	80	2	0	07:20	?	00:00:00	[ata_sff]
root	81	2	0	07:20	?	00:00:00	[md]
root	82	2	0	07:20	?	00:00:00	[edac-poller]
root	83	2	0	07:20	?	00:00:00	[devfreq_wq]
root	84	2	0	07:20	?	00:00:04	[kworker/1:1–events]

Screenshot 7- ps -aux вывод запущеных процессов

```
top - 09:32:37 up 2:12, 1 user, load average: 0.00, 0.00, 0.00
Tasks: 127 total, 1 running, 102 sleeping, 24 stopped, 0 zombie
2Cpu(s): 0.0 us, 0.0 sy, 0.0 nl, 100.0 ld, 0.0 wa, 0.0 hl, 0.0 sl, 0.0 st
MiB Mem: 981.0 total, 307.7 free, 153.6 used, 519.8 buff/cache
MiB Suap: 1750.0 total, 1750.0 free, 0.0 used, 675.2 avail Mem

PID USER PR NI VIRT RES SHR S %CPU **MEM TIME+ COMMAND

1074 userl 20 0 18700 10048 8340 $ 0.0 l.0 0:00.09 systemd
1075 userl 20 0 103464 3516 20 $ 0.0 0.5 0:00.09 systemd
1075 userl 20 0 4620 2256 1995 T 0.0 0.2 0:00.05 less
1132 userl 20 0 4620 2256 1996 T 0.0 0.2 0:00.00 less
1147 userl 20 0 4620 2256 1996 T 0.0 0.2 0:00.00 less
1149 userl 20 0 4620 2256 1995 T 0.0 0.2 0:00.00 less
1149 userl 20 0 4620 2256 1995 T 0.0 0.2 0:00.00 less
1149 userl 20 0 4620 2256 1995 T 0.0 0.2 0:00.00 less
1516 userl 20 0 4620 2256 1992 T 0.0 0.2 0:00.00 less
1518 userl 20 0 4620 2256 1992 T 0.0 0.2 0:00.00 less
1516 userl 20 0 4620 2256 1992 T 0.0 0.2 0:00.00 less
1515 userl 20 0 4620 2256 1992 T 0.0 0.2 0:00.00 less
1557 userl 20 0 8044 4004 3336 T 0.0 0.2 0:00.01 less
1559 userl 20 0 4620 2276 2016 T 0.0 0.2 0:00.01 less
1561 userl 20 0 4620 2276 2016 T 0.0 0.2 0:00.01 less
1564 userl 20 0 4620 2276 2016 T 0.0 0.2 0:00.01 less
1564 userl 20 0 4620 2276 2016 T 0.0 0.2 0:00.01 less
1568 userl 20 0 4620 2276 2016 T 0.0 0.2 0:00.01 less
1570 userl 20 0 4620 2288 2024 T 0.0 0.2 0:00.01 less
1570 userl 20 0 4620 2280 2016 T 0.0 0.2 0:00.00 less
1573 userl 20 0 4620 2280 2016 T 0.0 0.2 0:00.00 less
1573 userl 20 0 4620 2280 2016 T 0.0 0.2 0:00.00 less
1573 userl 20 0 4620 2280 2016 T 0.0 0.2 0:00.00 less
1579 userl 20 0 4620 2280 2016 T 0.0 0.2 0:00.00 less
1579 userl 20 0 4620 2280 2016 T 0.0 0.2 0:00.00 less
1579 userl 20 0 4620 2280 2016 T 0.0 0.2 0:00.00 less
1579 userl 20 0 4620 2280 2016 T 0.0 0.2 0:00.00 less
1579 userl 20 0 4620 2280 2016 T 0.0 0.2 0:00.00 less
1579 userl 20 0 4620 2260 1996 T 0.0 0.2 0:00.00 less
1580 userl 20 0 4620 2260 1996 T 0.0 0.2 0:00.00 less
1593 userl 20 0 4620 2260 1996 T 0
```

Screenshot 8- top процессы выбраного пользователя

```
Help for Interactive Commands – procps-ng UNKNOWN
Window HiDef: Cumulative mode Off. Sustem: Delay 3.0 secs; Secure mode Off.

Z.B.E.e Global: 'Z' colors: 'B' bold', 'E'/'e' summary/task memory scale
1.t.m Togyle Summary: 'l' load avg; 't' task/cpu stats: 'm' memory info
0.1,2,3,I Togyle: '0' zeros; '1/2/3' cpus or numa node views; 'I' Irix mode
f.F.X Fleids: 't'/'F' add/remove/order/sort; 'X' increase fixed-width

L.B.

L.B.
> Locate: 'L'/'8' find/again; Move sort column: '<'/'> 'left/right
R.H.J.G. Togyle: 'R' Sort; 'H' Threads; 'J' Num justify; 'C' Coordinates
c.i,S,J. Togyle: 'C' Cmd name/line; 'I' Idle; 'S' Time; 'J' Str justify
x.y Togyle highlights: 'x' sort field; 'y' running tasks
z.b. Togyle: '2' color/mono; 'b' bold/reverse (only if 'x' or 'y')
u.U.0.0. Filter by: 'u'/'U' effective/any user; 'o'/'0' other criteria
n,#,^0. Set: 'm'/'#' max tasks displayed; Show: Ctrl+'0' other filter(s)
V.v. Togyle: 'V' forest view; 'v' hide/show forest view children

k,r Manipulate tasks: 'k' kill; 'r' renice
d or s Set update interval
M,Y Mrite configuration file 'W'; Inspect other output 'Y'
q Quit
( commands shown with '.' require a visible task display window )

Press 'h' or '?' for help with Windows,
Type 'q' or <Esc> to continue
```

Screenshot 9 – top help команда

```
Topsks: 128 total, 1 running, 102 sleeping, 25 stopped, 0 zombie ZDDU(s): 0.0 us, 0.2 ug, 0.0 nl, 99.8 ld, 0.0 us, 0.0 nl, 0.0 si, 0.0 st, 0.0 st, 0.2 ug, 0.0 nl, 99.8 ld, 0.0 us, 0.0 hl, 0.0 si, 0.0 st, 0.
```

Screenshot 10 – top no загруженности процессора

top – 09 Tacks: 1	9:39:39	5 up 2:	:19,	1 user,	load a	average: ing, 25	0.00, (0.00, 0	0.00 zombie	
103K3.]		us, O	0 511	0.0 0	100 O	id oo	յոց (i, o bi	0.0 si	0.0 st
MiB Mem	,			306.6	free	154 6	used,	51°	9.8 buff/d	rache
MiB Swap	1: 1	750.0 to	ntal.	1750.0	free,	0.0	used.	674	1.1 avail	Mem
Renice F	PID 84	to valu	je 10	2.001	,					
	USER	PR	NI	VIRT	RES	SHR S	%CPU	%MEM	TIME+	COMMAND
84	root	20	0	O.Om	O.Om	O.Om I	0.1	0.0	0:04.92	kworker/1:1-ata_sff
191	root	-51	0	O.Om	O.Om	0.0m S	0.1	0.0	0:00.88	irq/18–vmwgfx
539	root		0	273.6m	17.6m	8.0m S	0.1	1.8	0:01.32	multipathd
	root	20	0	765.7m	27.6m	16.0m S	0.1	2.8	0:01.85	snapd
1571	root	20	0	O.Om	O.Om	0.0m I	0.1	0.0	0:02.31	kworker/0:2-events
	root	20	0	99.7m	11.4m	8.3m S	0.0		0:01.88	
	root	20	0	O.Om	O.Om	0.0m S	0.0	0.0		kthreadd
	root		-20	O.Om	O.Om	0.0m I	0.0	0.0	0:00.00	
	root		-20	O.Om	O.Om	0.0m I	0.0	0.0		rcu_par_gp
	root		-20	O.Om	O.Om	0.0m I	0.0	0.0		kworker/0:0H–kblockd
	root		-20	O.Om	O.Om	O.Om I	0.0	0.0		mm_percpu_wq
	root	20	0	O.Om	O.Om	0.0m S	0.0	0.0		ksoftirqd/0
	root	20	0	O.Om	O.Om	0.0m I	0.0	0.0		ncu_sched
	root		0	O.Om	O.Om	0.0m S	0.0	0.0	0:00.05	migration/0
	root	-51	0	O.Om	O.Om	O.Om S	0.0	0.0		idle_inject/0
	root	20	0	O.Om	O.Om	0.0m I	0.0	0.0		kworker/0:1-events
	root	20	0	0.0m	0.0m	0.0m S	0.0	0.0	0:00.00	
	root	20	0	0.0m	0.0m	0.0m S	0.0	0.0	0:00.00	cpunp/1
	root	-51	0	0.0m	0.0m	0.0m S	0.0	0.0	0:00.00	idle_inject/1
	root	rt 20	0	0.0m 0.0m	0.0m 0.0m	0.0m S 0.0m S	0.0	0.0	0:00.40	migration/1 ksoftirqd/1
	root root		-20	0.0m	0.0m	0.0m I	0.0	0.0		kworker/1:OH-kblockd
	root	20	-20	0.0m	0.0m	0.0m S	0.0	0.0		kdevtmpfs
	root		-20	0.0m	0.0m	0.0m I	0.0	0.0	0:00.00	
	root	20	-20	0.0m	0.0m	0.0m S	0.0	0.0		rcu_tasks_kthre
	root	20	Ö	0.0m	0.0m	0.0m S	0.0	0.0	0:00.00	
	root	20	Ö	0.0m	0.0m	0.0m S	0.0	0.0		khungtaskd
	root	20	Ö	0.0m	0.0m	0.0m S	0.0	0.0		oom_reaper
	root		-20	0.0m	0.0m	0.0m I	0.0	0.0		writeback
	. 000	-		0.011	0.011	0.0111	0.0	0.0	0.00.00	WI I CODGON

Screenshot 11 – top renice PID 84 повышение приоритета процесса

Tasks: 128 total, 1 running, 102 sleeping, 25 stopped, 0 zombie % CDPU(S): 0.0 us, 0.0 st, 0.0	top – 09:45:53 up	0 2:	25,	1 user,	load :	average:	0.00,	0.00, 0	0.00	
Mis Mem 981,0 total 306,2 free 155.1 used 519,8 buff/cache 1750.0 free 1										
MiB Mem: 981.0 total, 306.2 free, 0.0 used. 673.6 avail Mem Send pid 1080 signal [15/sigterm] 1 PID USER PR NI VIT RES SHR S %CPU %MEM TIME+ COMMAND									0.0 si, 0.0 st	
MiB Swap: 1750.0 total, 1750.0 free, 0.0 used. 673.6 avail Mem Send pld 1080 signal [15/sigterm] 1 PID USER PR NI VIRT RES SHR S %CPU MEM TIME+ COMMAND 555 root 0 -20 0.0m 0.0m 0.0m 0.0m 0.0 0.0 0.00.00 loop1 556 root 0 -20 0.0m 0.0m 0.0m 0.0m 0.0 0.0 0.00.00 loop2 557 root 20 0 0.0m 0.0m 0.0m 0.0m 0.0 0.0 0.00.00 jbd2/sda2-8 558 root 0 -20 0.0m 0.0m 0.0m 1 0.0 0.0 0.00.00 jbd2/sda2-8 558 root 0 -20 0.0m 0.0m 0.0m 0.0 0.0 0.0 0.00.00 loop3 560 root 0 -20 0.0m 0.0m 0.0m 0.0m 0.0 0.0 0.00.00 loop4 561 root 0 -20 0.0m 0.0m 0.0m 0.0m 0.0 0.0 0.00.00 loop5 562 root 0 -20 0.0m 0.0m 0.0m 0.0m 0.0 0.0 0.00.00 loop6 582 systemd+ 20 0 88.3m 6.4m 5.5m 8 0.0 0.0 0.0 0.00.12 systemd-timesyn 623 systemd+ 20 0 26.3m 8.0m 7.0m 8 0.0 0.0 0.00 loop6 625 root 0 -20 0.0m 0.0m 0.0m 1 0.0 0.0 0.00.12 systemd-rework 625 root 0 -20 0.0m 0.0m 0.0m I 0.0 0.0 0.00.00 bondo 629 systemd+ 20 0 228.5m 12.1m 8.2m 8 0.0 0.6 0.00.12 systemd-resolve 641 root 20 0.228.9m 7.2m 6.4m 8 0.0 0.7 0.00.12 systemd-resolve 644 root 20 0 228.9m 7.2m 6.4m 8 0.0 0.7 0.00.21 accounts-daemon 650 root 20 0.79.9m 3.9m 3.6m 8 0.0 0.4 0.00.24 inqbalance 652 root 20 0.79.9m 3.9m 3.6m 8 0.0 0.4 0.00.24 inqbalance 653 root 20 0.79.9m 3.9m 3.6m 8 0.0 0.4 0.00.24 inqbalance 653 root 20 0.79.9m 3.9m 3.6m 8 0.0 0.7 0.00.21 systemd-logind 656 root 20 0.79.5m 4.7m 4.0m 8 0.0 0.7 0.00.21 systemd-logind 657 root 20 0.79.7m 2.3m 2.1m 8 0.0 0.2 0.00.00 bondo on do						155.1	used,	519		
PID USER	MiB Swap: 1750.	.0 to	otal,	1750.	O free,	0.0	used.	673	3.6 avail Mem	
555 root 0 -20 0.0m		gnal	[15/	sigterm]	1					
556 root 0 -20 0.0m 0.0m 0.0m S 0.0 0.0 0:00.01 job2/sda2-8 557 root 20 0 0 0.0m 0.0m 0.0m S 0.0 0.0 0:00.00 jbd2/sda2-8 558 root 0 -20 0.0m 0.0m 0.0m S 0.0 0.0 0:00.00 loop3 560 root 0 -20 0.0m 0.0m 0.0m S 0.0 0.0 0:00.00 loop4 561 root 0 -20 0.0m 0.0m 0.0m S 0.0 0.0 0:00.00 loop5 562 root 0 -20 0.0m 0.0m 0.0m S 0.0 0.0 0:00.10 loop5 582 systemd+ 20 0 88.3m 6.4m 5.5m S 0.0 0.6 0:00.12 systemd-timesyn 623 systemd+ 20 0 26.3m 8.0m 7.0m S 0.0 0.6 0:00.11 systemd-retwork 625 root 0 -20 0.0m 0.0m 0.0m 0.0m I 0.00 0.0 0.0 0:00.01 systemd-retwork 625 root 0 -20 0.0m 0.0m 0.0m 0.0m I 0.00 0.0 0.0 0:00.01 systemd-retwork 641 root 20 0 23.5m 12.1m 8.2m S 0.0 0.1 0:00.01 systemd-resolve 641 root 20 0 7.5m 4.7m 1.7m 6.4m S 0.0 0.7 0:00.21 sacco										
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559 root 0 -20 0.0m 0.0m 0.0m S 0.0 0.00.00 loop3 560 root 0 -20 0.0m 0.0m 0.0m S 0.0 0.0 0:00.00 loop5 561 root 0 -20 0.0m 0.0m 0.0m S 0.0 0.0 0:00.10 loop5 562 root 0 -20 0.0m 0.0m 0.0m S 0.0 0.0 0:00.00 loop6 582 systemd+ 20 0 88.3m 6.4m 5.5m S 0.0 0.6 0:00.12 systemd-timesyn 623 systemd+ 20 0 26.3m 8.0m 7.0m S 0.0 0.8 0:00.11 systemd-network 625 root 0 -20 0.0m 0.0m 0.0m I 0.0 0.0 0:00.01 systemd-network 627 systemd+ 20 0 23.5m 12.1m 8.2m S 0.0 1.2 0:00.12 systemd-resolve 641 root 20 0 23.5m 12.1m 8.2m S 0.0 0.7 0:00.21 systemd-resolve									0:00.00 jbd2/sda2–8	
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1132 user1 20 0 4.5m 2.2m 2.0m T 0.0 0.2 0:00.00 less		20								
1147 user1 20 0 4.5m 2.2m 1.9m T 0.0 0.2 0:00.01 less		20								
	1147 user1	20	0	4.5m	2.2m	1.9m T	0.0	0.2	0:00.01 less	

Screenshot 12 – kill and send signal 1 удаление процесса с сигналом 1 закрытие терминала

Ubuntu 20.04.2 LTS host1 tty1 host1 login: user1 ⊃assword: Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0–80–generic x86_64) * Documentation: https://help.ubuntu.com https://landscape.canonical.com * Management: https://ubuntu.com/advantage * Support: System information as of Mon Aug 2 09:47:48 UTC 2021 109 System load: 0.0 Processes: 56.3% of 8.79GB Users logged in: Usage of /: Memory usage: 20% IPv4 address for enp0s3: 10.0.2.15 Swap usage: * Super-optimized for small spaces – read how we shrank the memory footprint of MicroK8s to make it the smallest full K8s around. https://ubuntu.com/blog/microk8s-memory-optimisation 63 updates can be installed immediately. O of these updates are security updates. To see these additional updates run: apt list --upgradable Last login: Mon Aug 2 07:23:56 UTC 2021 on tty1 user1@host1:~\$ jobs user1@host1:~\$ nano Linux_host1 & [1] 1804 user1@host1:~\$ jobs [1]+ Stopped nano Linux_host1 user1@host1:~\$

Screenshot 13 – jobs запущенные фоновые процессы



		.0 us, 0							0.0 si	
	Mem :	981.0 to			free,		used,		.4 buff/o	
MIB	Swap:	1750.0 to	отаі,	1747.5	tree,	2.5	used.	639	.2 avail	mem
	PID USE	R PR	NI	VIRT	RES	SHR S	%CPU	%MEM	TIME+	COMMAND
	1 roo	t 20	0	103576	12904	8364 S	0.0	1.3	0:12.54	systemd
	2 roo	t 20	0	0	0	0 S	0.0	0.0	0:00.00	kthreadd
	3 roo	t 0	-20	0	0	0 I	0.0	0.0	0:00.00	rcu_gp
	4 roo	t 0	-20	0	0	0 I	0.0	0.0	0:00.00	rcu_par_gp
	6 roo	t 0	-20	0	0	0 I	0.0	0.0		kworker/0:0H–kblockd
	8 roo	t 0	-20	0	0	0 I	0.0	0.0	0:00.00	mm_percpu_wq
	9 roo	t 20	0	0	0	0 S	0.0	0.0		ksoftirqd/0
	10 roo	t 20	0	0	0	0 I	0.0	0.0	0:05.47	rcu_sched
	11 roo		0	0	0	0 S	0.0	0.0		migration/0
	12 roo	t -51	0	0	0	0 S	0.0	0.0		idle_inject/0
	14 roo	t 20	0	0	0	0 S	0.0	0.0	0:00.00	cpuhp/0
	15 roo	t 20	0	0	0	0 S	0.0	0.0	0:00.00	cpuhp/1
	16 roo	t -51	0	0	0	0 S	0.0	0.0	0:00.00	idle_inject/1
	17 roo	t rt	0	0	0	0 S	0.0	0.0	0:00.41	migration/1
	18 roo	t 20	0	0	0	0 S	0.0	0.0	0:00.20	ksoftirqd/1
	20 roo	t 0	-20	0	0	0 I	0.0	0.0	0:00.00	kworker/1:0H–kblockd
	21 roo	t 20	0	0	0	0 S	0.0	0.0	0:00.01	kdevtmpfs
	22 roo	t 0	-20	0	0	0 I	0.0	0.0	0:00.00	netns
	23 roo	t 20	0	0	0	0 S	0.0	0.0	0:00.00	rcu_tasks_kthre
	24 roo	t 20	0	0	0	0 S	0.0	0.0	0:00.00	
	25 roo	t 20	0	0	0	0 S	0.0	0.0	0:00.00	khungtaskd
	26 roo		0	0	0	0 S	0.0	0.0		oom_reaper
	27 roo		-20	0	0	0 I	0.0	0.0		writeback
	28 roo			0	0	0 S	0.0	0.0		kcompactd0
	29 roo			0	0	0 S	0.0	0.0	0:00.00	
	30 roo			0	0	0 S	0.0	0.0		khugepaged
	76 roo		-20	0	0	0 I	0.0	0.0	0:00.00	kintegrityd
	77 roo		-20	0	0	0 I	0.0	0.0	0:00.00	
	78 roo		-20	0	0	0 I	0.0	0.0		blkcg_punt_bio
	79 roo		-20	0	0	0 I	0.0	0.0	0:00.00	tpm_dev_wq
	- Stopp			top						
user	1@host1	:~\$ bg %2								

Screenshot 15 – bg %2 отправить в фоновый режим

```
user1@host1:~$
user1@host2.*
use
```

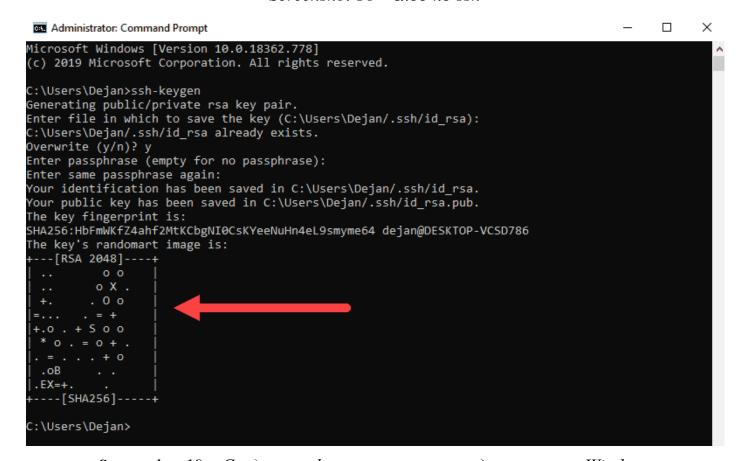
Screenshot 16 – sleep 5 команда для остановки процесса на время

```
am UBUNTY
  am UBUNTY
   am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
  am UBUNTY
I am UBUNTY
user1@host1:~$ yes ——help
Usage: yes [STRING]...
or: yes OPTION
Repeatedly output a line with all specified STRING(s), or 'y'.
                          display this help and exit
         --version output version information and exit
GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Report yes translation bugs to <a href="https://translationproject.org/team/">https://translationproject.org/team/</a>
Full documentation at: <a href="https://www.gnu.org/software/coreutils/yes">https://www.gnu.org/software/coreutils/yes</a>
or available locally via: info '(coreutils) yes invocation'
user1@host1:~$ yes | fsck /dev/hdname
fsck from util-linux 2.34
e2fsck 1.45.5 (07–Jan–2020)
e2fsck: need terminal for interactive repairs
user1@host1:~$ yes rm *.txt
```

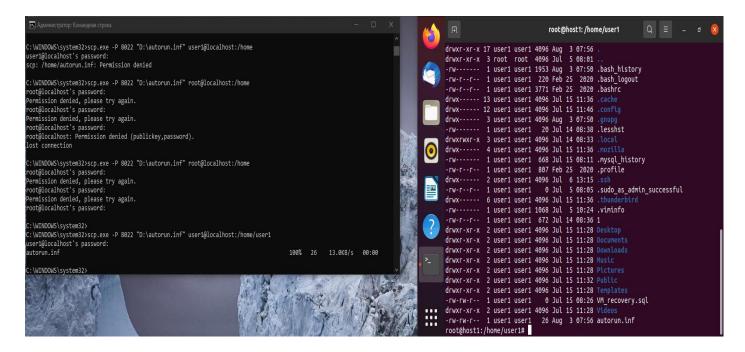
Screenshot 17 – yes команда для авто-подтверждения

```
👊 user1@host1: ~
                                                                                                                                         Microsoft Windows [Version 10.0.19042.1110]
(c) Корпорация Майкрософт (Microsoft Corporation). Все права защищены.
C:\WINDOWS\system32>ssh root@localhost -p 8022
root@localhost's password:
Permission denied, please try again.
root@localhost's password:
Permission denied, please try again.
root@localhost's password:
root@localhost: Permission denied (publickey,password).
C:\WINDOWS\system32>ssh user1@localhost -p 8022
user1@localhost's password:
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-77-generic x86_64)
 * Documentation: https://help.ubuntu.com
 * Management:
                      https://landscape.canonical.com
https://ubuntu.com/advantage
 * Support:
  System information as of Tue Aug 3 07:25:57 UTC 2021
  System load: 0.12
                                         Processes:
                                                                        208
  Usage of /: 93.4% of 8.79GB
                                         Users logged in:
  Memory usage: 54%
                                         IPv4 address for enp0s3: 10.0.2.15
  Swap usage:
  => / is using 93.4% of 8.79GB
   Super-optimized for small spaces - read how we shrank the memory footprint of MicroK8s to make it the smallest full K8s around.
```

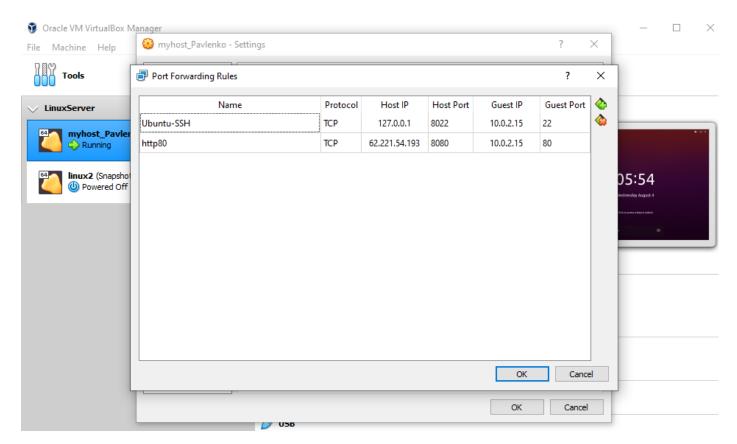
Screenshot 18 – exod no ssh



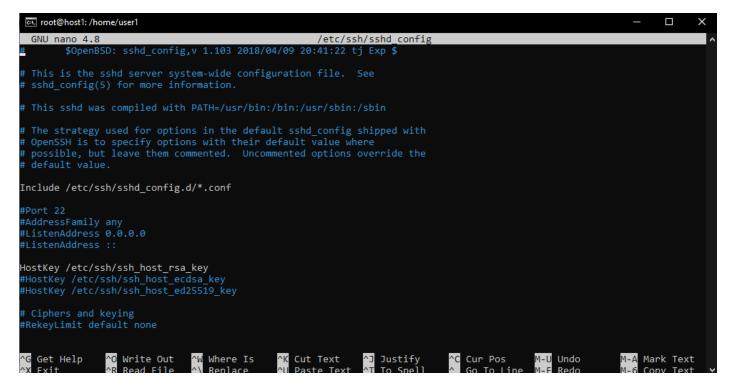
Screenshot 19 – Создание ssh ключа через командную строку Windows



Screenshot 20 – scp.exe отправка файла от хоста на ssh сервер



Screenshot 21 – Проброс портов через Oracle



Screenshot 22 – Настройка файла config ssh сервера