1. Запустить htop и посмотреть, сколько процессоров и оперативной памяти есть на сервере.

- 1. Запустил htop. Так как только одна строчка CPU значит 1 процессор(можно командой пргос). В конце строчки Мет количество оперативной памяти 984М.
- 2. Найти все программы с расширением .ру.

```
ubuntu@ip-172-31-44-209:~$ sudo find / -name "*.py*"
/etc/python3.6/sitecustomize.py
/etc/python2.7/sitecustomize.py
/var/tmp/timer.py.swp
/snap/core/6964/etc/python3.5/sitecustomize.py
ubuntu@ip-172-31-44-209:~$ sudo find / -name "*.py" -print > list_py.txt
ubuntu@ip-172-31-44-209:~$ ll
otal 616
drwxr-xr-x 9 ubuntu ubuntu
                                             4096 Jun 15 11:56
drwxr-xr-x 5 root
                                             4096 Jun 13 10:27
                               root
 rw----- 1 ubuntu ubuntu
                                             186 Jun 15 11:33
                                                                            .Xauthority
 rw----- 1 ubuntu ubuntu
                                             3835 Jun 15 11:32
                                                                            .bash_history
 rw-r--r-- 1 ubuntu ubuntu
                                             220 Apr
                                                            4 2018
4 2018
                                                                            .bash logout
 rw-r--r-- 1 ubuntu ubuntu
                                             3771 Apr
                                                                            .bashrc
                                             4096 Jun 11 17:55
 rwx----- 6 ubuntu ubuntu
                                                                            .cache/
                                             4096 Jun 9 14:28
4096 May 29 15:44
 rwx----- 5 ubuntu ubuntu
                                                                            .config/
 rwx----- 3 ubuntu ubuntu
                                                                           .gnupg/
.local/
 rwxrwxr-x 5 ubuntu ubuntu
                                             4096 Jun 11 17:56
                                             4096 Jun 9 12:17
807 Apr 4 2018
                                                                            .mozilla/
Irwx----- 5 ubuntu ubuntu
                                                                           .profile
 rw-r--r-- 1 ubuntu ubuntu
                                            72 May 31 17:03
4096 May 28 20:45
0 May 29 15:45
12288 Jun 9 13:36
 rw-rw-r-- 1 ubuntu ubuntu
                                                                            .selected editor
 rwx----- 2 ubuntu ubuntu
 rw-r--r-- 1 ubuntu ubuntu
                                                                            .sudo_as_admin_successful
 rw----- 1 ubuntu ubuntu
 rw----- 1 ubuntu ubuntu
                                             7745 Jun 15 11:32
-rw-rw-r-- 1 ubuntu ubuntu 7745 Jun 15 11:32 .viminfo
-rw-rw-re-- 2 ubuntu ubuntu 25 Jun 10 09:33 123.txt
-rw-rw-re-- 1 ubuntu ubuntu 8 May 31 16:38 'Privet!'
-rw-rw-rw-r 1 ubuntu ubuntu 21 Jun 13 09:54 hello_py
-rw-rw-re-- 1 ubuntu ubuntu 49 Jun 10 09:45 hello_linear
-rw-rw-re-- 1 ubuntu ubuntu 22 Jun 10 09:59 hello_linear
-rw-rw-re-- 1 ubuntu ubuntu 27 Jun 10 09:41 linear.py
-rw-rw-re-- 2 ubuntu ubuntu 25 Jun 10 09:33 link-to-123
-rw-rw-re-- 1 ubuntu ubuntu 508850 Jun 15 11:56 list_py.txt
drwxrwxr-x 2 ubuntu ubuntu 4096 May 31 17:04 testdir/
-rw-rw-re-- 1 ubuntu ubuntu 10 Jun 9 13:41 text.txt
ubuntu@ip-172-31-44-209:~$ mc
                                                                            .viminfo
                                                                           hello.py
hello_linear.py
hello_linear2.py
ıbuntu@ip-172-31-44-209:~$ mc
```

```
home/ubuntu/list_py.txt/
/home/ubuntu/list_py.txt
/etc/python3.6/sitecustomize.py
/etc/python2.7/sitecustomize.py
/snap/core/6964/etc/python3.5/sitecustomize.py
/snap/core/6964/usr/lib/python2.7/dist-packages/debconf.py
/snap/core/6964/usr/lib/python3/dist-packages/LibAppArmor/__init__.py
/snap/core/6964/usr/lib/python3/dist-packages/_version.py
/snap/core/6964/usr/lib/python3/dist-packages/blinker/__init__.py
/snap/core/6964/usr/lib/python3/dist-packages/blinker/_saferef.py
/snap/core/6964/usr/lib/python3/dist-packages/blinker/_utilities.py
/snap/core/6964/usr/lib/python3/dist-packages/blinker/base.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/__init
 snap/core/6964/usr/lib/python3/dist-packages/chardet/big5freq.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/big5prober.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/chardetect.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/chardistribution.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/charsetgroupprober.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/charsetprober.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/codingstatemachine.py
snap/core/6964/usr/lib/python3/dist-packages/chardet/compat.py
snap/core/6964/usr/lib/python3/dist-packages/chardet/constants.py
snap/core/6964/usr/lib/python3/dist-packages/chardet/cp949prober.py
 'snap/core/6964/usr/lib/python3/dist-packages/chardet/escprober.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/escsm.py
snap/core/6964/usr/lib/python3/dist-packages/chardet/eucjpprober.py/
/snap/core/6964/usr/lib/python3/dist-packages/chardet/euckrfreq.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/euckrprober.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/euctwfreq.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/euctwprober.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/gb2312freq.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/gb2312freq.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/gb2312prober.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/hebrewprober.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/jisfreq.py
/snap/core/6964/usr/lib/python3/dist-packages/chardet/jpcntx.py
snap/core/6964/usr/lib/python3/dist-packages/chardet/langbulgarianmodel.py/
 snap/core/6964/usr/lib/python3/dist-packages/chardet/langcyrillicmodel.py
```

- 2. Нашел все ру файлы, но их оказалось слишком много, и я решил вывести их список в файл.
- 3. \* Создать и запустить программу на Python, выводящую числа от 0 до 100 включительно.

```
from time import sleep
for num in range(1,101):
    print(num)
    sleep(1)
```

```
ubuntu@ip-172-31-44-209:/home/user_new$ python timer.py
1
2
3
4
5
6
7
8
9
10
11
12
13
14
```

PID USER	PRI	NI	VIRT	RES	SHR S	CPU%	MEM%	TIME+	Command
1097 www-data	20	Θ	140M	5860	4132 S	0.0	0.6	0:00.00	nginx: worker process
1069 whoopsie	20	Θ	451M	10924	9296 S	0.0	1.1	0:00.00	whoopsie -f
1070 whoopsie	20	Θ	451M	10924	9296 S	0.0	1.1		whoopsie -f
1055 whoopsie	20	Θ	451M	10924	9296 S	0.0	1.1		whoopsie -f
3080 ubuntu	20	Θ	76640	7828	6776 S	Θ.Θ	0.8		systemduser
3081 ubuntu	20	Θ	255M	2564	12 S	0.0	0.3		(sd-pam)
3172 ubuntu	20	Θ	107M	5420	4272 S	0.0	0.5	0:00.07	sshd: ubuntu@pts/0
3229 ubuntu	20	Θ	23296	5292	3524 S	0.0	0.5	0:00.05	
3266 ubuntu	20	Θ	107M	3356	2332 S	Θ.Θ	0.3		sshd: ubuntu@notty
3267 ubuntu	20	Θ	13060	2172	2012 S	0.0	0.2	0:00.00	sftp-server
3355 ubuntu	20	Θ	107M	<b>5</b> 256	3940 S	0.0	0.5	0:00.98	sshd: ubuntu@pts/l
3405 ubuntu	20	Θ	23164	5136	3408 S	0.0	0.5	0:00.05	
3449 ubuntu	20	Θ	107M	3684	2664 S	0.0		0:00.00	sshd: ubuntu@notty
3450 ubuntu	20	Θ	13060	2168	2012 S	0.0	0.2		sftp-server
3662 ubuntu	20	Θ	107M	5344	4056 S	0.0	0.5		sshd: ubuntu@pts/2
3742 ubuntu	20	Θ	107M	3400	2380 S	Θ.Θ	0.3	0:00.00	sshd: ubuntu@notty
3743 ubuntu	20	Θ	23164	5264	3532 S	0.0	0.5	0:00.03	
3757 ubuntu	20	Θ	13060	2308	2148 S		0.2	0:00.00	sftp-server
3760 ubuntu	20	Θ	69444	9604	7308 S	0.0	1.0	0:00.02	
3762 ubuntu	20	Θ	23140	4920	3384 S	0.0	0.5		bash -rcfile .bashrc
3801 ubuntu	20	0	24436	6124	3588 S	0.0	0.6	0:00.00	python timer.py
2002 uhuntu	20	۵	22220	5222	2620 D	0 0	Δ 5	0.00 07	hten

3. Создал скрипт, запустил его и нашел в htop.