

Name – Anup Kore

Topic – Misc System Information Commands

Date – 13-04-2023

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anup@DESKTOP-UDNP065: ~/New_Folder
anup@DESKTOP-UDNP065:~/New_Folder$ cmp Demo.txt New.txt
Demo.txt New.txt differ: byte 1, line 1
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$ diff Demo.txt New.txt
0a1,5
> Bangalore
> Delhi
> Favorite Cities :
> Favorite Sports :
> Football
0,10d10
< Favorite Cities :
< Solapur
< Bangalore City
< Pune
< Mumbai
12,13d11
< Delhi
< Simala
15,16c13,16
< Favorite Sports :
< Football
<
> Mumbai
> Pune
> Simala
> Solapur
18,19d17
< My rank was 38 in CCAT examination aptitude part
< I am 24 years old
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$ ip r
none 255.255.255.255 dev eth0 proto unspec metric 0
none 224.0.0.0/4 dev eth0 proto unspec metric 0
none 127.0.0.0/8 dev lo proto unspec metric 256
none 127.0.0.1 dev lo proto unspec metric 256
none 127.255.255.255 dev lo proto unspec metric 256
none 224.0.0.0/4 dev lo proto unspec metric 256
none 255.255.255.255 dev lo proto unspec metric 256
none default via 192.168.1.1 dev wifi0 proto unspec metric 0
none 192.168.1.0/24 dev wifi0 proto unspec metric 256
none 192.168.1.11 dev wifi0 proto unspec metric 256
none 192.168.1.255 dev wifi0 proto unspec metric 256
none 224.0.0.0/4 dev wifi0 proto unspec metric 256
```

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anup@DESKTOP-UDNP065: ~/New_Folder
anup@DESKTOP-UDNP065:~/New_Folder$ ifconfig
Command 'ifconfig' not found, but can be installed with:
sudo apt install net-tools
anup@DESKTOP-UDNP065:~/New_Folder$ sudo apt install net-tools
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
net-tools
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 204 kB of archives.
After this operation, 819 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 net-tools amd64 1.60+git20181103.0eebece-1ubuntu5 [204 kB]
Fetched 204 kB in 1s (148 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 24112 files and directories currently installed.)
Preparing to unpack .../net-tools.1.60+git20181103.0eebece-1ubuntu5_amd64.deb ...
Unpacking net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Setting up net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Processing triggers for man-db (2.10.2-1) ...
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$ ifconfig
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 1500
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0xfe<compat,link,site,host>
    loop (Local Loopback)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wifi0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.11 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 2401:4900:1c8e:3fa5:d8af:276d:50e0:8a17 prefixlen 64 scopeid 0x0<global>
    inet6 2401:4900:1c8e:3fa5:5e5:91ea:26f3:b89a prefixlen 128 scopeid 0x0<global>
    inet6 fa80::6c:e8e4:3a73:51d0 prefixlen 64 scopeid 0xfd<compat,link,site,host>
    ether f8:28:19:cf:17:09 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

anup@DESKTOP-UDNP065:~/New_Folder$
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anup@DESKTOP-UDNP065: ~/New_Folder
anup@DESKTOP-UDNP065:~/New_Folder$ route -n
Kernel IP routing table
Destination        Gateway         Genmask         Flags Metric Ref    Use Iface
0.0.0.0            0.0.0.0        0.0.0.0         U         0      0        0 lo
127.0.0.1          0.0.0.0        0.0.0.0         U         0      0        0 lo
127.255.255.255    0.0.0.0        255.255.255.255 U         0      0        0 lo
224.0.0.0          0.0.0.0        240.0.0.0       U         0      0        0 lo
255.255.255.255    0.0.0.0        255.255.255.255 U         0      0        0 lo
0.0.0.0            192.168.1.1    255.255.255.255 0          0      0        0 wifi0
192.168.1.0        0.0.0.0        255.255.255.0   U         0      0        0 wifi0
192.168.1.11       0.0.0.0        255.255.255.255 U         0      0        0 wifi0
192.168.1.255      0.0.0.0        255.255.255.255 U         0      0        0 wifi0
224.0.0.0          0.0.0.0        240.0.0.0       U         0      0        0 wifi0
255.255.255.255    0.0.0.0        255.255.255.255 U         0      0        0 wifi0
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$ fmt
Anup
Om
Akshay
Anup Om Akshay
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$ df -kh
Filesystem      Size  Used Avail Use% Mounted on
rootfs          238G  87G  152G   37% /
none            238G  87G  152G   37% /dev
none            238G  87G  152G   37% /run
none            238G  87G  152G   37% /run/lock
none            238G  87G  152G   37% /run/shm
none            238G  87G  152G   37% /run/user
tmpfs           238G  87G  152G   37% /sys/fs/cgroup
c:\             238G  87G  152G   37% /mnt/c
D:\             146G  1.5G  145G    2% /mnt/d
E:\             200G  23G  177G   12% /mnt/e
F:\             293G  100G  194G   34% /mnt/f
G:\             293G  20G  274G    7% /mnt/g
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$ netstat -plnt
(No info could be read for "-p": geteuid()-1000 but you should be root.)
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
anup@DESKTOP-UDNP065:~/New_Folder$
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anup@DESKTOP-UDNP065: ~/New_Folder
Non-authoritative answer:
Name:   Amazon.com
Address: 205.251.242.103
Name:   Amazon.com
Address: 52.94.236.248
Name:   Amazon.com
Address: 54.239.28.85
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$ sudo apt install cal
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package cal
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$ lscpu
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Address sizes: 36 bits physical, 48 bits virtual
Byte Order: Little Endian
CPU(s): 4
On-line CPU(s) list: 0-3
Vendor ID: GenuineIntel
Model name: Intel(R) Core(TM) i5-7200U CPU @ 2.50GHz
CPU family: 6
Model: 142
Thread(s) per core: 2
Core(s) per socket: 2
Socket(s): 1
Stepping: 9
CPU max MHz: 2712.0000
CPU min MHz: 0.0000
BogoMIPS: 5424.00
Flags: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pb syscall nx pdpe1gb rdtsc
cp lm pni pclmulqdq dtes64 monitor ds_cpl vmx est tm2 sse3 fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xs
ave osxsave avx f16c rdrand lahf_lm abm 3dnowprefetch fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid mpx rdseed adx smap clflushopt intel
_pt ibrs ibpb stibp ssbd
Virtualization features:
Virtualization: VT-x
Hypervisor vendor: Windows Subsystem for Linux
Virtualization type: container
anup@DESKTOP-UDNP065:~/New_Folder$
```

```
anup@DESKTOP-UDNP065: ~/New_Folder
anup@DESKTOP-UDNP065:~/New_Folder$ vmstat
procs -----memory----- --swap-- --io-- --system-- --cpu----
r b swpd free buff cache si so bi bo in cs us sy id wa st
Error: /proc must be mounted
To mount /proc at boot you need an /etc/fstab line like:
proc /proc proc defaults
In the meantime, run "mount proc /proc -t proc"
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$ vmstat -S m
procs -----memory----- --swap-- --io-- --system-- --cpu----
r b swpd free buff cache si so bi bo in cs us sy id wa st
Error: /proc must be mounted
To mount /proc at boot you need an /etc/fstab line like:
proc /proc proc defaults
In the meantime, run "mount proc /proc -t proc"
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$ uname -o
GNU/Linux
anup@DESKTOP-UDNP065:~/New_Folder$ uname -m
x86_64
anup@DESKTOP-UDNP065:~/New_Folder$ uname -r
4.4.0-19041-Microsoft
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$ free -h
              total        used        free      shared  buff/cache   available
Mem:           11Gi       5.5Gi       6.1Gi        17Mi       223Mi       6.2Gi
Swap:           29Gi       217Mi          0B          0B          0B          0B
anup@DESKTOP-UDNP065:~/New_Folder$
anup@DESKTOP-UDNP065:~/New_Folder$ cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 142
model name     : Intel(R) Core(TM) i5-7200U CPU @ 2.50GHz
stepping       : 9
microcode      : 0xffffffff
cpu MHz        : 2712.000
cache size     : 256 KB
physical id    : 0
siblings       : 4
core id        : 0
cpu cores      : 2
apicid         : 0
```

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anup@DESKTOP-UDNP065: ~/New_Folder
address sizes  : 36 bits physical, 48 bits virtual
power management:

processor       : 1
vendor_id      : GenuineIntel
cpu family     : 6
model          : 142
model name     : Intel(R) Core(TM) i5-7200U CPU @ 2.50GHz
stepping       : 9
microcode      : 0xffffffff
cpu MHz        : 2712.000
cache size     : 256 KB
physical id    : 0
siblings       : 4
core id        : 0
cpu cores      : 2
apicid         : 0
initial apicid : 0
fpu            : yes
fpu_exception  : yes
cpuid level    : 6
wp             : yes
flags           : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm p
ni pclmulqdq dtes64 monitor ds_cpl vmx est tm2 ssse3 fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave osxsave avx f16c rdrand lahf
_lm abm 3dnowprefetch fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid mpx rdseed adx smap clflushopt intel_pt ibrs ibpb stibp ssbd
bogomips       : 5424.00
clflush size   : 64
cache alignment : 64
address sizes  : 36 bits physical, 48 bits virtual
power management:

processor       : 2
vendor_id      : GenuineIntel
cpu family     : 6
model          : 142
model name     : Intel(R) Core(TM) i5-7200U CPU @ 2.50GHz
stepping       : 9
microcode      : 0xffffffff
cpu MHz        : 2712.000
cache size     : 256 KB
physical id    : 0
siblings       : 4
core id        : 1
cpu cores      : 2
```

```
anup@DESKTOP-UDNP065: ~/New_Folder
anup@DESKTOP-UDNP065:~/New_Folder$ cat /proc/meminfo
MemTotal:        12454540 kB
MemFree:         6397352 kB
Buffers:         34032 kB
Cached:          188576 kB
SwapCached:      0 kB
Active:          167556 kB
Inactive:        157876 kB
Active(anon):    103104 kB
Inactive(anon):  17440 kB
Active(file):    64452 kB
Inactive(file):  140436 kB
Unevictable:     0 kB
Mlocked:         0 kB
SwapTotal:       31174340 kB
SwapFree:        30952672 kB
Dirty:           0 kB
Writeback:       0 kB
AnonPages:       102824 kB
Mapped:          71404 kB
Shmem:           17720 kB
Slab:            13868 kB
SReclaimable:    6744 kB
SUnreclaim:      7124 kB
KernelStack:     2848 kB
PageTables:      2524 kB
NFS_Unstable:    0 kB
Bounce:          0 kB
WritebackTmp:    0 kB
CommitLimit:     515524 kB
Committed_AS:    3458064 kB
VmallocTotal:    122880 kB
VmallocUsed:     21296 kB
VmallocChunk:    66044 kB
HardwareCorrupted: 0 kB
AnonHugePages:   2048 kB
HugePages_Total: 0
HugePages_Free:  0
HugePages_Rsvd:  0
HugePages_Surp:  0
Hugepagesize:    2048 kB
DirectMap4k:     12280 kB
DirectMap4M:     897024 kB
anup@DESKTOP-UDNP065:~/New_Folder$
```