CLOUD AND DEVOPS

YOGIRAM KV

AI&DS

```
yogiram@madara:~$ sudo useradd user1
yogiram@madara:~$ sudo groupadd test
yogiram@madara:~$ sudo usermod -aG test user1
yogiram@madara:~$ sudo getent group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,yogiram
tty:x:5:syslog
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:yogiram
floppy:x:25:
tape:x:26:
sudo:x:27:yogiram
audio:x:29:pulse
dip:x:30:yogiram
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
gnats:x:41:
shadow:x:42:
utmp:x:43:
video:x:44:
sasl:x:45:
plugdev:x:46:yogiram
staff:x:50:
games:x:60:
users:x:100:
nogroup:x:65534:
systemd-journal:x:101:
systemd-network:x:102:
systemd-resolve:x:103:
systemd-timesync:x:104:
crontab:x:105:
messagebus:x:106:
input:x:107:
kvm:x:108:
render:x:109:
syslog:x:110:
tss:x:111:
bluetooth:x:112:
ssl-cert:x:113:postgres
uuidd:x:114:
```

```
uuidd:x:114:
tcpdump:x:115:
avahi-autoipd:x:116:
rtkit:x:117:
netdev:x:119:
ipadmin:x:120:yogiram
avahi:x:121:
scanner:x:122:saned
saned:x:123:
nm-openvpn:x:124:
whoopsie:x:125:
colord:x:126:
fwupd-refresh:x:127:
geoclue:x:128:
pulse:x:129:
pulse-access:x:130:
gdm:x:131:
sssd:x:132:
lxd:x:133:yogiram
yogiram:x:1000:
sambashare:x:134:yogiram
systemd-coredump:x:999:
sgx:x:135:
systemd-oom:x:136:
_ssh:x:118:
docker:x:137:yogiram
postgres:x:138:
rdma:x:139:
snapd-range-524288-root:x:524288:
snap_daemon:x:584788:
user1:x:1001:
test:x:1002:user1
yogiram@madara:~$ sudo userdel user1
yogiram@madara:~$ sudo groupdel test
yogiram@madara:~$ sudo getent group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,yogiram
tty:x:5:syslog
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:yogiram
floppy:x:25:
tape:x:26:
sudo:x:27:yogiram
audio:x:29:pulse
```

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```
list:x:38:
irc:x:39:
src:x:40:
gnats:x:41:
shadow:x:42:
utmp:x:43:
video:x:44:
sasl:x:45:
plugdev:x:46:yogiram
staff:x:50:
games:x:60:
users:x:100:
nogroup:x:65534:
systemd-journal:x:101:
systemd-network:x:102:
systemd-resolve:x:103:
systemd-timesync:x:104:
crontab:x:105:
messagebus:x:106:
input:x:107:
kvm:x:108:
render:x:109:
syslog:x:110:
tss:x:111:
bluetooth:x:112:
ssl-cert:x:113:postgres
uuidd:x:114:
tcpdump:x:115:
avahi-autoipd:x:116:
rtkit:x:117:
netdev:x:119:
ipadmin:x:120:yogiram
avahi:x:121:
scanner:x:122:saned
saned:x:123:
nm-openvpn:x:124:
whoopsie:x:125:
colord:x:126:
fwupd-refresh:x:127:
geoclue:x:128:
pulse:x:129:
pulse-access:x:130:
gdm:x:131:
sssd:x:132:
lxd:x:133:yogiram
yogiram:x:1000:
sambashare:x:134:yogiram
systemd-coredump:x:999:
sgx:x:135:
systemd-oom:x:136:
_ssh:x:118:
docker:x:137:yogiram
postgres:x:138:
rdma:x:139:
snapd-range-524288-root:x:524288:
snap_daemon:x:584788:
yogiram@madara:~$
```

```
yogiram@madara:~$ EDITOR=vim crontab -e
no crontab for yogiram - using an empty one
crontab: installing new crontab
yogiram@madara:~$ crontab -l
30 4 * * * /home/yogiram/workspace/Master/test.sh
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h  dom mon dow   command
yogiram@madara:~$ nproc --all
8
yogiram@madara:~$ top
```

CLOUD AND DEVOPS

YOGIRAM KV

AI&DS

```
Tasks: 298 total,   1 running, 297 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.8 us,  0.2 sy,  0.0 ni, 99.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   7789.8 total,   2617.5 free,   2265.5 used,   2906.8 buff/cache
MiB Swap:   2048.0 total,   2045.0 free,      2.2 used.   4545.2 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
19154 yogiram   20   0   86.6g 152756 105832 S   0.8   1.9   0:18.14 whatsapp-for-li
22134 yogiram   20   0 1132.1g 231172 141040 S   0.8   2.9   0:39.59 chrome
   16 root      20   0       0      0      0 I   0.4   0.0   0:05.14 rcu_preempt
  775 systemd+  20   0   14836   6880   6040 S   0.4   0.1   0:15.99 systemd-oomd
  859 root      20   0    2816   1936   1832 S   0.4   0.0   0:01.39 acpid
 2264 yogiram   20   0 6113332 345056 151044 S   0.4   4.3   7:37.16 gnome-shell
 2773 yogiram   20   0  315092  12056   7020 S   0.4   0.2   0:30.57 ibus-daemon
14256 root      20   0       0      0      0 I   0.4   0.0   0:03.27 kworker/3:4-events
18824 root      20   0       0      0      0 I   0.4   0.0   0:01.04 kworker/7:2-kec_query
19257 yogiram   20   0  103.6g  86640  56736 S   0.4   1.1   0:13.24 WebKitNetworkPr
22101 yogiram   20   0 1134.1g 124672  97792 S   0.4   1.6   0:02.37 chrome
    1 root      20   0  168456  13848   8332 S   0.0   0.2   0:03.51 systemd
    2 root      20   0       0      0      0 S   0.0   0.0   0:00.01 kthreadd
    3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
    4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par_gp
    5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 slub_flushwq
    6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 netns
    8 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
   11 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_percpu_wq
   12 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_kthread
   13 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_rude_kthread
   14 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_trace_kthread
   15 root      20   0       0      0      0 S   0.0   0.0   0:00.21 ksoftirqd/0
   17 root      rt   0       0      0      0 S   0.0   0.0   0:00.00 migration/0
   18 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
   19 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
   20 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/1
   21 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/1
   22 root      rt   0       0      0      0 S   0.0   0.0   0:00.18 migration/1
   23 root      20   0       0      0      0 S   0.0   0.0   0:00.45 ksoftirqd/1
   25 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/1:0H-events_highpri
   26 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/2
   27 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/2
   28 root      rt   0       0      0      0 S   0.0   0.0   0:00.18 migration/2
   29 root      20   0       0      0      0 S   0.0   0.0   0:00.31 ksoftirqd/2
   31 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/2:0H-events_highpri
   32 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/3
   33 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/3
   34 root      rt   0       0      0      0 S   0.0   0.0   0:00.19 migration/3
   35 root      20   0       0      0      0 S   0.0   0.0   0:00.13 ksoftirqd/3
   37 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/3:0H-events_highpri
   38 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/4
   39 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/4
   40 root      rt   0       0      0      0 S   0.0   0.0   0:00.18 migration/4
   41 root      20   0       0      0      0 S   0.0   0.0   0:00.18 ksoftirqd/4
   43 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/4:0H-events_highpri
   44 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/5
   45 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/5
[1]+  Stopped                 top
```

```
  0[|||                                                   ]    4[|||                                                   ]
  1[|                                                     ]    5[|||                                                   ]
  2[                                                      ]    6[                                                      ]
  3[|                                                     ]    7[|                                                     ]
  Mem[|||||||||||||||||||||||||||||||||||||||||||||||||   ]   Tasks: 163, 636 thr; 1 running
  Swp[                                                    ]   Load average: 0.45 0.62 0.71
                                                              Uptime: 02:49:19

  PID USER      PRI  NI  VIRT   RES   SHR S CPU% MEM%   TIME+  Command
 2264 yogiram   20   0 5945M  328M  139M S  2.0  4.2  7:43.92 /usr/bin/gnome-shell
18536 yogiram   20   0 33.4G  261M  191M S  1.3  3.4  0:53.13 /opt/google/chrome/chrome --incognito
19154 yogiram   20   0 88.6G  149M  103M S  1.3  1.9  0:18.92 /snap/whatsapp-for-linux/58/usr/local/bin/whatsapp-for-linux
22104 yogiram   20   0 1134G  122M 97792 S  1.3  1.6  0:00.62 /opt/google/chrome/chrome --type=renderer --crashpad-handler-pid=18544 --enable-crash-reporter=daa3c4d4-f2ab-4fa9-bf05-9aad455bf2fc, --extension-p
23106 yogiram   20   0 12448  5808  3584 R  1.3  0.1  0:00.22 htop
  888 root      20   0  234M  7936  6796 S  0.7  0.1  0:00.82 /usr/libexec/accounts-daemon
 1064 root      20   0 2045M 42636 30780 S  0.7  0.5  0:06.84 /usr/bin/containerd
18559 yogiram   20   0 33.4G  261M  191M S  0.7  3.4  0:07.67 /opt/google/chrome/chrome --incognito
18581 yogiram   20   0 33.1G  114M 96816 S  0.7  1.5  0:13.26 /opt/google/chrome/chrome --type=utility --utility-sub-type=network.mojom.NetworkService --lang=en-GB --service-sandbox-type=none --crashpad-handl
18587 yogiram   20   0 33.1G  114M 96816 S  0.7  1.5  0:12.53 /opt/google/chrome/chrome --type=utility --utility-sub-type=network.mojom.NetworkService --lang=en-GB --service-sandbox-type=none --crashpad-handl
22134 yogiram   20   0 1132G  225M  137M S  0.7  2.9  0:39.98 /opt/google/chrome/chrome --type=renderer --crashpad-handler-pid=18544 --enable-crash-reporter=daa3c4d4-f2ab-4fa9-bf05-9aad455bf2fc, --change-stac
22220 yogiram   20   0  550M 60520 46276 S  0.7  0.8  0:10.69 /usr/libexec/gnome-terminal-server
    1 root      20   0  164M 13848  8332 S  0.0  0.2  0:03.51 /sbin/init splash
  351 root      19  -1 73224 33088 31520 S  0.0  0.4  0:01.62 /lib/systemd/systemd-journald
  385 root      20   0 27172  7324  4724 S  0.0  0.1  0:00.73 /lib/systemd/systemd-udevd
  775 systemd-  20   0 14836  6880  6040 S  0.0  0.1  0:16.14 /lib/systemd/systemd-oomd
  776 systemd-  20   0 26596 14836  9492 S  0.0  0.2  0:02.49 /lib/systemd/systemd-resolved
  781 systemd-  20   0 89388  7440  6512 S  0.0  0.1  0:00.17 /lib/systemd/systemd-timesyncd
  793 systemd-  20   0 89388  7440  6512 S  0.0  0.1  0:00.00 /lib/systemd/systemd-timesyncd
  859 root      20   0  2816  1936  1832 S  0.0  0.0  0:01.40 /usr/sbin/acpid
  861 root      20   0  7772  4232  3800 S  0.0  0.1  0:00.17 avahi-daemon: running [nadara.local]
  862 root      20   0 10624  5520  4908 S  0.0  0.1  0:00.17 /usr/lib/bluetooth/bluetoothd
  864 messagebu 20   0 11244  7012  4192 S  0.0  0.1  0:02.62 @dbus-daemon --system --address=systemd: --nofork --nopidfile --systemd-activation --syslog-only
  866 root      20   0  255M 19744 15920 S  0.0  0.2  0:01.52 /usr/sbin/NetworkManager --no-daemon
  872 root      20   0 82764  4080  3676 S  0.0  0.1  0:01.34 /usr/sbin/irqbalance --foreground
  872 root      20   0 4104B 21192 11816 S  0.0  0.3  0:00.14 /usr/bin/python3 /usr/bin/networkd-dispatcher --run-startup-triggers
  876 root      20   0  237M 11616  7544 S  0.0  0.1  0:03.22 /usr/libexec/polkitd --no-debug
  878 root      20   0  234M  7736  6960 S  0.0  0.1  0:00.07 /usr/libexec/power-profiles-daemon
  879 syslog    20   0  217M  6252  4404 S  0.0  0.1  0:00.35 /usr/sbin/rsyslogd -n -iNONE
  885 root      20   0 1793M 34324 19836 S  0.0  0.4  0:10.83 /usr/lib/snapd/snapd
  890 root      20   0  237M 11616  7544 S  0.0  0.1  0:00.07 /usr/libexec/polkitd --no-debug
  895 root      20   0  230M  7104  6436 S  0.0  0.1  0:00.07 /usr/libexec/switcheroo-control
  897 root      20   0 48316  8296  6992 S  0.0  0.1  0:00.52 /lib/systemd/systemd-logind
  899 root      20   0  125M  9450  8456 S  0.0  0.1  0:00.18 /usr/sbin/thermald --systemd --dbus-enable --adaptive
  900 root      20   0  384M 14552 10668 S  0.0  0.2  0:01.98 /usr/libexec/udisks2/udisksd
  902 root      20   0 16504  6652  5828 S  0.0  0.1  0:00.05 /sbin/wpa_supplicant -u -s -O /run/wpa_supplicant
  905 root      20   0 82764  4080  3676 S  0.0  0.1  0:00.00 /usr/sbin/irqbalance --foreground
  986 syslog    20   0  217M  6252  4404 S  0.0  0.1  0:00.12 /usr/sbin/rsyslogd -n -iNONE
  907 syslog    20   0  217M  6252  4404 S  0.0  0.1  0:00.04 /usr/sbin/rsyslogd -n -iNONE
  908 root      20   0  7496  1484  1132 S  0.0  0.0  0:00.00 avahi-daemon: chroot helper
  909 syslog    20   0  217M  6252  4404 S  0.0  0.1  0:00.17 /usr/sbin/rsyslogd -n -iNONE
  917 root      20   0 1793M 34324 19836 S  0.0  0.4  0:00.63 /usr/lib/snapd/snapd
  922 root      20   0 1793M 34324 19836 S  0.0  0.4  0:00.24 /usr/lib/snapd/snapd
  923 root      20   0 1793M 34324 19836 S  0.0  0.4  0:00.67 /usr/lib/snapd/snapd
F1Help  F2Setup  F3Search  F4Filter  F5Tree  F6SortBy  F7Nice -  F8Nice +  F9Kill  F10Quit
```

CLOUD AND DEVOPS

YOGIRAM KV

AI&DS

```
yogiram@madara:~$ htop
yogiram@madara:~$ ps
    PID TTY          TIME CMD
  22238 pts/0    00:00:00 bash
  23082 pts/0    00:00:00 top
  23260 pts/0    00:00:00 htop
  23309 pts/0    00:00:00 ps
yogiram@madara:~$ kill 23082
yogiram@madara:~$ free -g
              total        used        free      shared  buff/cache   available
Mem:              7           2           2           0           2           4
Swap:             1           0           1
yogiram@madara:~$ service --status-all
 [ + ]  acpid
 [ - ]  alsa-utils
 [ - ]  anacron
 [ + ]  apparmor
 [ + ]  apport
 [ + ]  avahi-daemon
 [ + ]  bluetooth
 [ - ]  console-setup.sh
 [ - ]  cron
 [ + ]  cups
 [ + ]  cups-browsed
 [ + ]  dbus
 [ + ]  docker
 [ + ]  gdm3
 [ - ]  grub-common
 [ - ]  hwclock.sh
 [ + ]  irqbalance
 [ + ]  kerneloops
 [ - ]  keyboard-setup.sh
 [ + ]  kmod
 [ + ]  openvpn
 [ - ]  plymouth
 [ + ]  plymouth-log
 [ + ]  postgresql
 [ + ]  procps
 [ - ]  pulseaudio-enable-autospawn
 [ - ]  rsync
 [ - ]  saned
 [ - ]  speech-dispatcher
 [ - ]  spice-vdagent
 [ - ]  sssd
 [ - ]  sysstat
 [ - ]  ubuntu-fan
 [ + ]  udev
 [ + ]  ufw
 [ + ]  unattended-upgrades
 [ - ]  uuidd
 [ - ]  whoopsie
 [ - ]  x11-common
yogiram@madara:~$ sudo systemctl status cron.service
○ cron.service - Regular background program processing daemon
     Loaded: loaded (/lib/systemd/system/cron.service; enabled; vendor preset: enabled)
```

```
 [ + ]  apport
 [ + ]  avahi-daemon
 [ + ]  bluetooth
 [ - ]  console-setup.sh
 [ - ]  cron
 [ + ]  cups
 [ + ]  cups-browsed
 [ + ]  dbus
 [ + ]  docker
 [ + ]  gdm3
 [ - ]  grub-common
 [ - ]  hwclock.sh
 [ + ]  irqbalance
 [ + ]  kerneloops
 [ - ]  keyboard-setup.sh
 [ + ]  kmod
 [ + ]  openvpn
 [ - ]  plymouth
 [ + ]  plymouth-log
 [ + ]  postgresql
 [ + ]  procps
 [ - ]  pulseaudio-enable-autospawn
 [ - ]  rsync
 [ - ]  saned
 [ - ]  speech-dispatcher
 [ - ]  spice-vdagent
 [ - ]  sssd
 [ - ]  sysstat
 [ - ]  ubuntu-fan
 [ + ]  udev
 [ + ]  ufw
 [ + ]  unattended-upgrades
 [ - ]  uuidd
 [ - ]  whoopsie
 [ - ]  x11-common
yogiram@madara:~$ sudo systemctl status cron.service
○ cron.service - Regular background program processing daemon
     Loaded: loaded (/lib/systemd/system/cron.service; enabled; vendor preset: enabled)
     Active: inactive (dead) since Fri 2024-04-05 16:17:48 IST; 21min ago
       Docs: man:cron(8)
    Process: 892 ExecStart=/usr/sbin/cron -f -P $EXTRA_OPTS (code=killed, signal=TERM)
   Main PID: 892 (code=killed, signal=TERM)
        CPU: 330ms

Apr 05 16:05:01 madara CRON[17784]: pam_unix(cron:session): session opened for user root(uid=0) by (uid=0)
Apr 05 16:05:01 madara CRON[17785]: (root) CMD (command -v debian-sa1 > /dev/null && debian-sa1 1 1)
Apr 05 16:05:01 madara CRON[17784]: pam_unix(cron:session): session closed for user root
Apr 05 16:15:01 madara CRON[18520]: pam_unix(cron:session): session opened for user root(uid=0) by (uid=0)
Apr 05 16:15:01 madara CRON[18521]: (root) CMD (command -v debian-sa1 > /dev/null && debian-sa1 1 1)
Apr 05 16:15:01 madara CRON[18520]: pam_unix(cron:session): session closed for user root
Apr 05 16:17:01 madara CRON[18926]: pam_unix(cron:session): session opened for user root(uid=0) by (uid=0)
Apr 05 16:17:01 madara CRON[18927]: (root) CMD (   cd / && run-parts --report /etc/cron.hourly)
Apr 05 16:17:01 madara CRON[18926]: pam_unix(cron:session): session closed for user root
Apr 05 16:17:48 madara systemd[1]: cron.service: Deactivated successfully.
yogiram@madara:~$
```

CLOUD AND DEVOPS

YOGIRAM KV

AI&DS

```
yogiram@madara:~$ sudo apt update
Hit:2 https://download.docker.com/linux/ubuntu jammy InRelease
Hit:3 https://brave-browser-apt-release.s3.brave.com stable InRelease
Hit:1 https://packages.microsoft.com/repos/code stable InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Hit:5 http://security.ubuntu.com/ubuntu jammy-security InRelease
Hit:6 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:7 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:8 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
15 packages can be upgraded. Run 'apt list --upgradable' to see them.
W: Skipping acquire of configured file 'main/binary-i386/Packages' as repository 'https://brave-browser-apt-release.s3.brave.com stable InRelease' doesn't support architecture 'i386'
yogiram@madara:~$ sudo apt upgrade
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Calculating upgrade... Done
Get another security update through Ubuntu Pro with 'esm-apps' enabled:
  traceroute
Learn more about Ubuntu Pro at https://ubuntu.com/pro
The following packages have been kept back:
  qemu-block-extra qemu-system-common qemu-system-data qemu-system-gui qemu-system-x86 qemu-utils
The following packages will be upgraded:
  brave-browser code firmware-sof-signed google-chrome-stable xserver-common xserver-xephyr xserver-xorg-core xserver-xorg-legacy xwayland
9 upgraded, 0 newly installed, 0 to remove and 6 not upgraded.
5 standard LTS security updates
Need to get 330 MB of archives.
After this operation, 5,731 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:2 https://brave-browser-apt-release.s3.brave.com stable/main amd64 brave-browser amd64 1.64.116 [116 MB]
Get:3 https://dl.google.com/linux/chrome/deb stable/main amd64 google-chrome-stable amd64 123.0.6312.105-1 [107 MB]
Get:4 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 firmware-sof-signed all 2.0-1ubuntu4.7 [1,270 kB]
Get:1 https://packages.microsoft.com/repos/code stable/main amd64 code amd64 1.88.0-1712152114 [102 MB]
Get:5 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 xserver-common all 2:21.1.4-2ubuntu1.7~22.04.9 [28.5 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 xserver-xephyr amd64 2:21.1.4-2ubuntu1.7~22.04.9 [1,011 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 xserver-xorg-legacy amd64 2:21.1.4-2ubuntu1.7~22.04.9 [35.2 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 xserver-xorg-core amd64 2:21.1.4-2ubuntu1.7~22.04.9 [1,477 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 xwayland amd64 2:22.1.1-1ubuntu0.12 [935 kB]
Fetched 328 MB in 2min 10s (2,534 kB/s)
Preconfiguring packages ...
setting xserver-xorg-legacy/xwrapper/allowed_users from configuration file
(Reading database ... 251860 files and directories currently installed.)
Preparing to unpack .../0-brave-browser_1.64.116_amd64.deb ...
Unpacking brave-browser (1.64.116) over (1.64.113) ...
Preparing to unpack .../1-google-chrome-stable_123.0.6312.105-1_amd64.deb ...
Unpacking google-chrome-stable (123.0.6312.105-1) over (123.0.6312.86-1) ...
Preparing to unpack .../2-code_1.88.0-1712152114_amd64.deb ...
Unpacking code (1.88.0-1712152114) over (1.87.2-1709912201) ...
Preparing to unpack .../3-firmware-sof-signed_2.0-1ubuntu4.7_all.deb ...
Unpacking firmware-sof-signed (2.0-1ubuntu4.7) over (2.0-1ubuntu4.5) ...
Preparing to unpack .../4-xserver-common_2%3a21.1.4-2ubuntu1.7~22.04.9_all.deb ...
Unpacking xserver-common (2:21.1.4-2ubuntu1.7~22.04.9) over (2:21.1.4-2ubuntu1.7~22.04.8) ...
Preparing to unpack .../5-xserver-xephyr_2%3a21.1.4-2ubuntu1.7~22.04.9_amd64.deb ...
```

```
Preconfiguring packages ...
setting xserver-xorg-legacy/xwrapper/allowed_users from configuration file
(Reading database ... 251860 files and directories currently installed.)
Preparing to unpack .../0-brave-browser_1.64.116_amd64.deb ...
Unpacking brave-browser (1.64.116) over (1.64.113) ...
Preparing to unpack .../1-google-chrome-stable_123.0.6312.105-1_amd64.deb ...
Unpacking google-chrome-stable (123.0.6312.105-1) over (123.0.6312.86-1) ...
Preparing to unpack .../2-code_1.88.0-1712152114_amd64.deb ...
Unpacking code (1.88.0-1712152114) over (1.87.2-1709912201) ...
Preparing to unpack .../3-firmware-sof-signed_2.0-1ubuntu4.7_all.deb ...
Unpacking firmware-sof-signed (2.0-1ubuntu4.7) over (2.0-1ubuntu4.5) ...
Preparing to unpack .../4-xserver-common_2%3a21.1.4-2ubuntu1.7~22.04.9_all.deb ...
Unpacking xserver-common (2:21.1.4-2ubuntu1.7~22.04.9) over (2:21.1.4-2ubuntu1.7~22.04.8) ...
Preparing to unpack .../5-xserver-xephyr_2%3a21.1.4-2ubuntu1.7~22.04.9_amd64.deb ...
Unpacking xserver-xephyr (2:21.1.4-2ubuntu1.7~22.04.9) over (2:21.1.4-2ubuntu1.7~22.04.8) ...
Preparing to unpack .../6-xserver-xorg-legacy_2%3a21.1.4-2ubuntu1.7~22.04.9_amd64.deb ...
Unpacking xserver-xorg-legacy (2:21.1.4-2ubuntu1.7~22.04.9) over (2:21.1.4-2ubuntu1.7~22.04.8) ...
Preparing to unpack .../7-xserver-xorg-core_2%3a21.1.4-2ubuntu1.7~22.04.9_amd64.deb ...
Unpacking xserver-xorg-core (2:21.1.4-2ubuntu1.7~22.04.9) over (2:21.1.4-2ubuntu1.7~22.04.8) ...
Preparing to unpack .../8-xwayland_2%3a22.1.1-1ubuntu0.12_amd64.deb ...
Unpacking xwayland (2:22.1.1-1ubuntu0.12) over (2:22.1.1-1ubuntu0.11) ...
Setting up code (1.88.0-1712152114) ...
Setting up google-chrome-stable (123.0.6312.105-1) ...
Setting up firmware-sof-signed (2.0-1ubuntu4.7) ...
Setting up brave-browser (1.64.116) ...
Setting up xserver-common (2:21.1.4-2ubuntu1.7~22.04.9) ...
Setting up xwayland (2:22.1.1-1ubuntu0.12) ...
Setting up xserver-xorg-legacy (2:21.1.4-2ubuntu1.7~22.04.9) ...
setting xserver-xorg-legacy/xwrapper/allowed_users from configuration file
Setting up xserver-xorg-core (2:21.1.4-2ubuntu1.7~22.04.9) ...
Setting up xserver-xephyr (2:21.1.4-2ubuntu1.7~22.04.9) ...
Processing triggers for mailcap (3.70+nmu1ubuntu1) ...
Processing triggers for desktop-file-utils (0.26-1ubuntu3) ...
Processing triggers for gnome-menus (3.36.0-1ubuntu3) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for shared-mime-info (2.1-2) ...
yogiram@madara:~$ sudo apt-get auto
autoclean    autoremove
yogiram@madara:~$ sudo apt-get autoremove
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
0 upgraded, 0 newly installed, 0 to remove and 6 not upgraded.
yogiram@madara:~$ sudo apt-cache search whatsapp
iwatch - realtime filesystem monitoring program using inotify
python3-consonance - WhatsApp handshake implementation using Noise Protocol
python3-yowsup - Python 3 library to implement a WhatsApp client
telegram-cli - Command-line interface for Telegram messenger
yowsup-cli - command line tool that acts as WhatsApp client
yogiram@madara:~$ sudo apt-get autoclean
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Del google-chrome-stable 123.0.6312.86-1 [107 MB]
yogiram@madara:~$
```

CLOUD AND DEVOPS

YOGIRAM KV

AI&DS

```
yogiram@madara:~/workspace/Master$ vi vimtest.txt
yogiram@madara:~/workspace/Master$ ls
demo.txt   sample.txt   test   test.sh   vimtest.txt
yogiram@madara:~/workspace/Master$ nano vimtest.txt
yogiram@madara:~/workspace/Master$ cat vimtest.txt
This is a test file
Appended using nano
yogiram@madara:~/workspace/Master$
```

```
  GNU nano 6.2                                    vimtest.txt *
This is a test file
Appended using nano


File Name to Write: vimtest.txt
^G Help              M-D DOS Format      M-A Append       M-B Backup File
^C Cancel            M-M Mac Format      M-P Prepend      ^T Browse
```

CLOUD AND DEVOPS

YOGIRAM KV

AI&DS

```
This is a test file
~wq
```