

linux

- [linux](#)

linux

00 [0000]

```
whoami |which |id |who |users |whereis |updatedb |locate |cat /etc/redhat-release | |free -h|
df -h |du -sh
env |printenv PATH |echo $SHELL |tty |uptime |getent hosts 127.0.0.1 |lsblk |iosta |wc -l
|uptime |more /etc/os-release
reboot |shutdown -h now |poweroff
more /etc/shells 0000shell
echo $PATH
echo $SHELL
```

```
|hostname |hostnamectl |hostnamectl set-hostname 147
uname {-r;-n;-a;-m}
df {-h;-i;-hT}
wc {-l;-w;-c;-m}
```

00 [00000000]

```
cat /etc/redhat-release
cat /etc/os-release
0000
uname {-r;-n;-a;-m}
```

00 [00 cpu00]

```
lscpu
top
htop
uptime
ps aux --sort=-%cpu | head -20
```

□□ [□□□□□□]

```
free -h
vmstat 1
```

□□ [□□]

```
lsblk
fdisk -l
df -h
du -sh
find -name -size +100M file -delete
pgrep sshd
lsof {-p;-u;-i} {pid;root;;port}
dnf install -y sysstat iotop
iostat -x 1 5
iotop -o
```

□□ [□□]

```
mount {-a;-o;-l} | umoun
ln -s □□path1 □□path2 □□□ path1(□□□)
```

□□ [□□ |□□ |□□]

```
export aaa='bbb'
alias aaa='bbb'
aaa() {bbb "$@"}
$aaa ;${aaa};$"aaa";``
$?;$#;$@;$*;$${
```

```
aaa=${aaa}/□□□/□}
aaa=${aaa}/□□□/□□□}
aaa=${aaa}/□□□/□□□}
aaa=${aaa%□□}
```

```
aaa=${aaa#[]}
```

[] [[]]

```
()  
aaa+=(d)  
unset aaa-[1]  
${aaa[@]} | ${!aaa[@]} | ${#aaa[@]}
```

[] [[][][][]]

```
ls {-a;-l;-r;-t;-F}  
cd {-;...;../..}  
mkdir {-p;-m 755;-v}  
rmdir {-p}  
rm {-r;-rf}  
mv {-i;-v;!([])} --shopt -s extglob --> !()  
touch {-t YYYYMMDDhhmm.ss}  
bash {-n;-x}
```

[] [[]]

```
cp {-r;-i;-v}  
rsync {-av;--delete} {[] []}  
scp -r [] []
```

[] [[]]

```
echo {-n;-e}  
printf {"%3d";"%03d";"%-3d";"%6s";"%-6s";"%0.2f";"%-10s %5d\n";"%-10s %5s\n";"%0.3f%\n"}
```

[] [[][]]

```
tee {-a} file{1..9}  
>  
>>
```

□□ [□□]

```
find path {-name;-mtime;-ctime;-atime;-type;-size;-iname;-empty} {-or;-and;-delete;-exec cmd  
{} \;;xargs cmd}  
grep {-C;-A;-B;-i;-v;-n;-r;-c --include=-P}
```

□□ [□□]

```
cat {-E;-n;-A;>;<<EOF}  
tail {-f;-n 10;-fn10}  
head {-n;-5;-c 100M /dev/zero} | dd if=/dev/urandom of=100M.file bs=100M count=1  
more  
less
```

□□□ [□□]

```
sed {-E;-e;-i;-n} {s;d;i;a;p;=;q} □□sed -i "$((${ wc -l < file } - 2 )),\${d}" file | sed -i "${d}"  
file  
awk -F: '$NR>10 {print $1,$2,$NF}'  
cut -d '.' -f 1 = awk '{print $1}'  
vim {+10} {:%s/a/b/g;;set nonu} {vim ~/.vimrc}
```

□□□ [□□]

```
sort {-r;-n;-u;-f}  
tac = sort -nr  
uniq {-c;-d;-u;-i}  
column {-t;-s " , ";-R;-c} {xargs -n 5 < file | column -t}  
xargs {-n 5;-I {};};
```

□□□

[□□□]

```
shuf -i 1-35 -n5  
echo $RANDOM
```

□□□

[□□]

```
seq 1 10 | xargs -I {}  
for i in {1..10}; ; done  
for ((i=1;i<=10;i++));do ;done  
i=1;while ((i<=10));do ;((i++));done  
while read {-s;-p} ;do ;done
```

□□□

[□□]

```
if cmd; then ;fi  
if cmd; then ;elif cmd; then ;else cmd ;fi  
[] {-z;-n;-f;-d;-e;-eq;-ne;-gt;-ge;-lt;-le;==;!=;}  
[[ ]] □□ && || ;;  
(()) {>;<;>=;<=;==;++}  
{!;-o;-a}  
case $ in; $);;$);;esac
```

□□□

[□□]

```
wget {-O}  
curl {-o;-s;-X;-H;-d}
```

```
rpm {-Uvh;-ivh--nodeps;-e;-q;-qa;-ql;-V;--import}  
yum install
```

□□□

[□□□□□□□]

```
echo -e 'export PROMPT_COMMAND="history -a"\nexport HISTFILESIZE=10000\nexport HISTSIZE=10000'  
>> ~/.bashrc && source ~/.bashrc  
tail -f ~/.bash_history
```

[[[[]

```
adduser/useradd {-r}  
userdel {-r}  
passwd {-l;-u;-e}  
chage {-d 0;-d 2026-04-25;-l;-E 2026-04-25;-M;-m;-W 14}  
su - user001  
sudo {echo 'devops ALL=(ALL) NOPASSWD:ALL' >> /etc/sudoers}  
{/etc/passwd;/etc/shadow;/etc/group;/home/name;/var/spool/mail/name}
```

[[[[]

```
groupadd  
groupdel {-f}  
usermod {-aG;-G} group user  
gpasswd {-a;-d} user group
```

[[[[]

```
chmod {u/g/o+-r/w/x;-R 755;-x}  
chown {-R;user;;user;root.root}  
umask
```

[[[[[]

```
ps {-ef;-aux}  
UID          PID    PPID  C STIME TTY          TIME CMD  
top {-d 1;-p PID;-u user;-n 2;-b;} {P;M;N;T;1;E;e;H;i;k;q; ;}  
pgrep {-l;-a}  
kill {-2;-9}  
pkill = pgrep + kill
```

```
ss {-ant;-nutlp;tln}  
netstat  
nohup [] &|&|ctrl+z-->jobs-->bg|fg
```

[][][] [[]]

```
journalctl {-u;-f;--vacuum-time=2weeks;--disk-usage}  
logrotate {-d;-f}  
vim /etc/logrotate.d/nginx  
/var/log/nginx/*.log {  
    daily  
    missingok  
    rotate 15          # []15[][][][][][]  
    compress          # [][]gzip[][]  
    delaycompress  
    postrotate  
        /bin/systemctl reload nginx > /dev/null  
    endscrip  
}
```

```
find /var/log/nginx -type f -mtime +15 -name "*.log-*" -delete
```

[][][] [[]]

```
date {-s;+"%Y-%m-%d %H:%M:%S";+%F;+%T;-d "-1 day" +%F}  
ntp|chrony  
ntpq -p  
chronyc {tracking;sources -v}
```

[][][] [[]]

```
crontab {-e;-l;-r}  
watch {-n;-d;-t}  
at
```

[][][] [selinux]


```
getenforce {sestatus}
setenforce 0 {1}
vim /etc/selinux/config {enforcing;permissive;disabled}
sed -i 's/^SELINUX=.*SELINUX=disabled/' /etc/selinux/config
```

[[[[[[]

```
firewall-cmd {--permanent;--add-service=http;--zone=public;--reload;--state;--list-services;--
add-port=8080/tcp;--list-all}
[--add-service= ; --remove-service= ; --add-port= ; --remove-port= ; --reload]
iptables -L
iptables -A INPUT -p tcp --dport 22 -j ACCEPT
```

[[[[ufw]

```
ufw status numbered
ufw status verbose
ufw show added
```

```
ufw {allow;deny;reset;enable;disable;reload}
```

[[[[[yum|dnf|[[]

```
yum -y {install;remove;list installed;list installed;list
available;update;search;info;repolist all;deplist;provides} {--enablerepo=;--disablerepo=}
yum clean all && yum makecache
dnf clean packages
dnf module {list;remove;reset;enable;install;switch-to;distro}
dnf {check-update;list updates;upgrade}
```

[[[[[[]

```
dnf repolist enabled
dnf repolist all
dnf config-manager --set-enabled [
```

```
dnf config-manager --set-disabled []
dnf install --enablerepo
dnf list --available mysql-community-server --showduplicates
```

[[[]]] [[]]

```
dnf module enable <[]>:<[]>
dnf module disable <[]>
dnf module reset <[]>
dnf module list <[]>
dnf module install <[]>:<[]>
dnf module remove php -y
dnf module switch-to php:8.2 -y
dnf distro-sync php -y
```

[[[]]] [createrepo]

```
yum -y install createrepo
mkdir -p /mnt/repo && createrepo /mnt/repo
cat > /etc/yum.repos.d/local.repo <<EOF
[local]\nname=Local Repo\nbaseurl=file:///mnt/repo\nngpgcheck=0\nenabled=1
EOF
```

[[[]]] [[]]

```
systemctl {start;stop;restart;status;enable;disable;is-active;reload;is-enable;kill;daemon-
reload;list-units --type=service}
```

```
vim /etc/systemd/system/name.service
[Unit]
Description=
After=network.target network-online.target
Wants=network-online.target
[Service]
ExecStart= (/usr/bin/python3 /opt/file.sh)
ExecStop=
```

```
ExecRestart=
ExecReload=
Type=simple (forking)
Restart=on-failure
[Install]
WantedBy=multi-user.target
```

tar [|]

```
zip {-r}  unzip {-d;-l}
gzip {-c;-d}  gunzip
bzip2 {-d}  bunzip2
tar {-zcvf;-zxvf;-jcvf;-zxvf;cvf;xvf;ztvf} -C path
```

ssh []

```
ssh-keygen -t rsa { ~/.ssh/ }
ssh-keygen -t rsa -b 4096 -C "libai"
ssh-copy-id -i /root/.ssh/id_rsa.pub root@192.168.20.146
ssh root@192.168.20.146
```

ssh [root]

```
echo 'root hard maxlogins 2' >> /etc/security/limits.conf
/root/.ssh/
```

ssh []

```
echo 'export TMOUT=3600' >> /etc/profile && source /etc/profile
```

ssh [root]

```
vim /etc/ssh/sshd_config
ClientAliveInterval 0
```

```
PermitRootLogin yes
```

root [root]]

```
vim /etc/ssh/sshd_config {PermitRootLogin no}
```

root [root]]

```
root,press ESC to enter root mode
e
linux16 ro --> rw (root mode)
quiet-->rd.break (root mode)
ctrl + x (switch_root:/#)
mount -o remount,rw /sysroot (root mode)
chroot /sysroot (root mode,sh-4.2)
passwd root (root mode)
touch /.autorelabel (SELinux (fixfiles relabel)
exit (switch_root:/#) (chroot)
exit (root mode)
```

root [ubuntu]

```
root,press ESC to enter root mode
e
linux16 ro --> rw (root mode)
init=/bin/bash
passwd root (root mode)
exit(root mode)
```

```
Advanced options for Ubuntu
Ubuntu, with Linux 5.15.0-181-generic (recovery mode)
passwd root (root mode)
exit
```

root [mail]]

```
dnf install -y mailx
cat >>/etc/mail.rc <<'EOA'
set from=15090023916@139.com
set smtp=smtps://smtp.139.com:465
set smtp-auth-user=15090023916@139.com
set smtp-auth-password=a8efec1183f4815ffe00
set smtp-auth=login
set ssl-verify=ignore
set nss-config-dir=/etc/pki/nssdb/
EOA
echo "[]" | mail -v -s "[]" -a file 15090023916@139.com
ctrl + D
```

```
dnf install -y mutt
echo "[]" | mutt -s "[]" -a 10wan_mysql_insert -- 15090023916@139.com
```



[]

```
nfs
yum -y install nfs-utils
rpm -q nfs-utils
mkdir /opt/share && cd /opt/share && ll
echo '/opt/share 192.168.20.145/24(rw,sync,no_root_squash)' > /etc/exports
systemctl start nfs-server && systemctl enable nfs-server && systemctl status nfs-server
mount -t nfs 192.168.20.146:/opt/share /opt/nfs
mkdir /opt/nfs && cd /opt/nfs
mount -t nfs 192.168.20.146:/opt/share /opt/nfs
```

```
mkdir /mnt/nfs #
echo '192.168.20.146:/opt/share /mnt/nfs nfs defaults 0 0' >> /etc/fstab
systemctl daemon-reload && mount -a && df -h
```



[LVM]

```

dd
dd -->dd { lsblk;df -h;df -hT;find /dev/ -name nvme0n*/lv01}
yum -y install lvm2
pvcreate nvme0n*
vgcreate vg01 nvme0n2 dd&& vgextend vg01 /dev/nvme0n3 /dev/nvme0n4
lvcreate -L 3G -n lv01 vg01 dd && lvextend -L +3G /dev/vg01/lv01
mkfs.xfs /dev/vg01/lv01ddmkfs.ext4 /dev/vg01/lv01
xfs_growfs /dev/vg01/lv01ddext4 {resize2fs /dev/vg01/lv01}
mkdir /mnt/lvxf && mount /dev/vg01/lv01 /mnt/lvxf dd(ext4) = mount -t xfs /dev/vg01/lv01
/mnt/lvxf
dd {ext4}
e2fsck -f /dev/vg01/lv01
resize2fs /dev/vg01/lv01 8G
lvreduce -L -4G/8G /dev/vg01/lv01

```

```

pvs {pvdisplay};vgs {vgdisplay};lvs {lvdisplay}
lvremove vgremove pvremove
lvcreate -L 1G -s -n lv02 /dev/vg01/lv01

```

```

ddreduces --removemissing --force vg_data {pvscan}
fuser {-m;-mk}

```

```

fdisk {-l}
echo "- - -" > /sys/class/scsi_host/host0/scan
echo 1 > /sys/block/sdb/device/delete

```

[[[nginx]]]

```

yum -y install gcc pcre-devel zlib-devel openssl-devel make #{C}

```

```

wget https://nginx.org/download/nginx-1.30.2.tar.gz && tar -zxvf nginx-1.30.2.tar.gz && cd
nginx-1.30.2
./configure --prefix=/opt/nginx --with-http_ssl_module && make && make install
echo 'export PATH=$PATH:/opt/nginx/sbin' >> ~/.bashrc && source ~/.bashrc
{nginx;nginx -s stop;nginx -s quit;nginx -s reload;-t}

```

```

vim /usr/lib/systemd/system/nginx.service
[Unit]

```

```
Description=Nginx Source Service
After=network.target

[Service]

Type=forking

PIDFile=/opt/nginx/logs/nginx.pid

ExecStart=/opt/nginx/sbin/nginx

ExecReload=/opt/nginx/sbin/nginx -s reload

ExecStop=/opt/nginx/sbin/nginx -s quit

PrivateTmp=true

[Install]

WantedBy=multi-user.target
```

```
cd && rm -rf nginx-1.30.2 nginx-1.30.2.tar.gz /opt/nginx/  
/usr/lib/systemd/system/nginx.service && sed -i '$d' ~/.bashrc
```

--	--	--	--

```
yum -y install php-fpm php-mysqlnd php-mbstring php-gd php-xml \
php-json php-curl php-zip php-fileinfo php-opcache php-bcmath
```

--	--	--	--

```
<meta charset="UTF-8">

<h1>○○○○○○○</h1>

<a href="/aaa.html">○○○○○ aaa.html</a>

<h2>○○○○○○○○</h2>

<p>○○○○○○○○○○○</p>

<br>

<strong>○○○○○○</strong>

https://nginx.org/en/download.html
```

```
sudo ./configure --prefix=/usr/local/nginx --with-http_ssl_module --with-http_v2_module --
with-pcre
sudo vim /etc/init.d/nginx
case "$1" in
    start)
        /usr/local/nginx/sbin/nginx
```

```

;;
stop)
    /usr/local/nginx/sbin/nginx -s stop
;;
restart)
    /usr/local/nginx/sbin/nginx -s reload
;;
*)
    echo "Usage: $0 {start|stop|restart}"
    exit 1
;;
esac

```

[[[[[[]

```

[BaseOS]
name=rockylinux-base0s
#baseurl=https://mirrors.aliyun.com/rockylinux/8/BaseOS/x86_64/os/
mirrorlist=https://mirrors.rockylinux.org/mirrorlist?arch=$basearch&repo=BaseOS-$releasever
gpgcheck=1
#gpgkey=https://mirrors.aliyun.com/rockylinux/8/BaseOS/x86_64/os/RPM-GPG-KEY-rockyofficial
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-rockyofficial
enabled=1

```

```

[AppStream]
name=rockylinux-appstream
#baseurl=https://mirrors.aliyun.com/rockylinux/8/AppStream/x86_64/os/
mirrorlist=https://mirrors.rockylinux.org/mirrorlist?arch=$basearch&repo=AppStream-$releasever
gpgcheck=1
#gpgkey=https://mirrors.aliyun.com/rockylinux/8/AppStream/x86_64/os/RPM-GPG-KEY-rockyofficial
gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-rockyofficial
enabled=1

```

```

[epel]
name=rockylinux-epel
#baseurl=https://mirrors.aliyun.com/epel/8/Everything/x86_64
metalink=https://mirrors.fedoraproject.org/metalink?repo=epel-
8&arch=$basearch&infra=$infra&content=$contentdir
gpgcheck=1

```



```
gpgkey=https://mirrors.aliyun.com/epel/RPM-GPG-KEY-EPEL-8
enabled=1
$basearch {x86_64} | Packages/ {} | repodata/repomd.xml {}
```

```
wget https://mirrors.aliyun.com/epel/epel-release-latest-8.noarch.rpm
rpm -ivh epel-release-latest-8.noarch.rpm
```

```
dnf install -y epel-release
```

```
dnf install -y https://rpms.remirepo.net/enterprise/remi-release-8.rpm
```

```
--enablerepo=epel --disablerepo=* | --disablerepo=epel
yum-config-manager {--add-repo;--disable;--enable}
```

`vim /etc/yum.repos.d/local.repo`

```
mkdir -p /local_repo && yum install --downloadonly --downloadaddir=/local_repo nginx php-fpm
mariadb
yum install createrepo -y && createrepo /local_repo
vim /etc/yum.repos.d/local.repo
[local-repo]
name=local-repo
baseurl=file:///local_repo
enabled=1
gpgcheck=0
```

`vim /etc/systemd/system/`

```
/etc/systemd/system/
```

```
[Unit]
Description= *.service
After=network.target
Before= *.service.target
```

```
[Service]
Environment="JAVA_HOME=/xxx"
```

```
ExecStart=path/*.sh
ExecStop=path/*.sh
Type=forking
Restart=on-failure
RestartSec=aaa
```

```
[Install]
WantedBy=multi-user.target
```

```
systemd-analyze verify *.service
systemctl daemon-reload
systemctl start *.service
systemctl stop *.service
systemctl enable *.service
systemctl disable *.service
systemctl status *.service
```

□□□□ [□□]

```
nmtui #□□□□□□
uuidgen
/etc/sysconfig/network-scripts/ifcfg-ens33
```

```
TYPE=Ethernet□□# en
BOOTPROTO=static□# dhcp none
NAME=ens33
DEVICE=ens33
ONBOOT=yes
IPADDR=192.168.20.144
NETMASK=255.255.255.0□□# PREFIX=24
GATEWAY=192.168.20.1
DNS1=223.5.5.5
DNS2=114.114.114.114
```

```
PROXY_METHOD=none
BROWSER_ONLY=no
DEFROUTE=yes
IPV4_FAILURE_FATAL=no
IPV6INIT=yes
```

```
UUID=****
```

```
uuidgen
```

```
device=dev=d
```

```
connection=con=c
```

```
nmcli device status
```

```
nmcli connection show
```

```
nmcli connection reload
```

```
nmcli device reapply ens33
```

```
nmcli connection down ens33
```

```
nmcli connection up ens33
```

```
systemctl restart network
```

```
systemctl restart NetworkManager
```

```
nmcli con reload
```

```
nmcli con up "ens33" # ens33
```

```
nmcli con mod "ens160" ipv4.addresses "192.168.20.145/24"
```

```
nmcli con mod "ens160" ipv4.gateway "192.168.20.10"
```

```
nmcli con mod "ens160" ipv4.dns "144.144.144.144"
```

```
nmcli con mod "ens160" ipv4.method manual
```

```
ip a
```

```
ip route
```

```
cat /etc/resolv.conf
```

```
ens33 [ens33]
```

```
/etc/ssh/sshd_config
```

```
ssh root@ip
```

```
sshd -t
```

```
systemctl restart sshd
```

```
ens33
```

```
UseDNS no
```

```
GSSAPIAuthentication no
```

```
PermitRootLogin yes
```

```
PasswordAuthentication yes
```



```
aaa=${1:-default}
command -v name
```



```
https://ollama.com
```



```
[n]
yum install -y nginx
systemctl enable --now nginx && systemctl status nginx
```

```
server {
    listen 80 default_server;
    server_name localhost;
```

```
root /web;
index index.html index.php index.htm;
```

```
location / {
    try_files $uri $uri/ =404;
}
```

```
location ~ \.php$ {
    fastcgi_pass 127.0.0.1:9000;
    fastcgi_param SCRIPT_FILENAME /web$fastcgi_script_name;
    include fastcgi_params;
}

mkdir -p /web
chown -R nginx:nginx /web
```

```
grep -v "^;" /etc/php-fpm.conf | grep -v "^\$"
```

```
dnf update nginx* -y
nginx -t
[m]
dnf install -y https://dev.mysql.com/get/mysql84-community-release-el9-4.noarch.rpm #(9.5)
dnf install -y mysql-community-server
grep password /var/log/mysqld.log
alter user "root"@"localhost" identified by '123456';
```

```
dnf install -y mysql-server
systemctl enable --now mysqld && systemctl status mysqld
mysql_secure_installation
```

```
[php-fpm]
yum install -y php php-fpm php-mysqlnd
vim /etc/php-fpm.d/www.conf
user = nginx
group = nginx
sed -i 's/^user.*/user = nginx/' /etc/php-fpm.d/www.conf
sed -i 's/^group.*/group = nginx/' /etc/php-fpm.d/www.conf
```

```
grep -v "^#" /etc/nginx/nginx.conf | grep -v "^$"
grep -v "^;" /etc/php-fpm.d/www.conf | grep -v "^$"
grep -E '^(user|group)' /etc/php-fpm.d/www.conf
```

```
systemctl enable --now php-fpm && systemctl status php-fpm
```

```
rm -f /etc/php-fpm.d/www.conf
dnf reinstall -y php-fpm
```

```
sed -i.bak 's/^group.*/group = nginx/' /etc/php-fpm.d/www.conf
diff file1 file2
```

```
echo "<?php phpinfo(); ?>" > /web/info.php
systemctl status nginx && systemctl status mysqld && systemctl status php-fpm
```

```
[[[ [root[[[[[ ]
```

```
vi /etc/pam.d/system-auth  
root
```

```
bash {-n;-x;-e}
```

[]

```
mac  
sed -i "s/^UUID=.* /UUID=\"$(uuidgen)\"/" /etc/sysconfig/network-scripts/ifcfg-ens160  
hostnamectl set-hostname 154  
sed -i "s/IPADDR.* /IPADDR=192.168.20.154/" /etc/sysconfig/network-scripts/ifcfg-ens160  
nmcli con reload
```

[]

```
"  
vm.swappiness = 30  
vm.overcommit_memory = 1  
vm.vfs_cache_pressure = 70  
vm.min_free_kbytes = 65535  
net.core.somaxconn = 1024  
net.ipv4.tcp_keepalive_time = 1200  
net.ipv4.ip_local_port_range = 1024 65535  
fs.file-max = 1048576  
kernel.pid_max = 65535  
kernel.threads-max = 65535  
sysctl --system  
sysctl -a
```

```
vim /etc/security/limits.conf
* soft nofile 65535
* hard nofile 65535
ulimit -n
ulimit -Hn
```

□□□ [□□□□]

```
cp -r /boot /boot.bak
cp -r /etc /etc.bak
yum update -y
uname -r
□□□□□rpm□
rpm -Uvh
grub2-set-default 0
reboot
```

```
ps -eo pid,user,%mem,rss,args | awk '$4>=10000'
ps -ef | awk '/nginx/ && !/awk/ {count++} END {print count}'
dnf install -y sysstat
iostat -x -d 1 1 | awk 'NR>3 && $1~/ (sd|hd|nvme)/ && $10>0 {print $1,$10}' | column -t
```

□□□□ [□□□]

```
sed -e 's/^/ <h1>/' -e 's### </h1>#' file
sed 's#\(.*\)#<h1>\1</h1>#' file
while read line; do echo "<h1>$line</h1>";done < file
```

```
awk '{aaa+=$2} END {print aaa}' file
awk '{print aaa+=$1}' file
awk '{print aaa+=$2} END {print aaa}' file
awk '{ aaa+=$3} END {print aaa}' file
awk '{for(i=1;i<=NF;i++) aaa[i]+=$i} END {print aaa[3]}' file
awk '{for(i=1;i<=NF;i++) aaa[i]+=$i} END{for(j=1;j<=NF;j++) print j, aaa[j]}' file
awk 'BEGIN {print "□□"} {print $1} END {print "□□"}' file
awk 'NR%2==1' file
awk 'OFS="-" {print $1,$2,$3}' file
awk '{if($2>20) print $1,$2}' file
```

```
systemctl daemon-reexec
```

```
systemctl daemon-reload
```