

Project 5: Linux Server Hardening & Automation

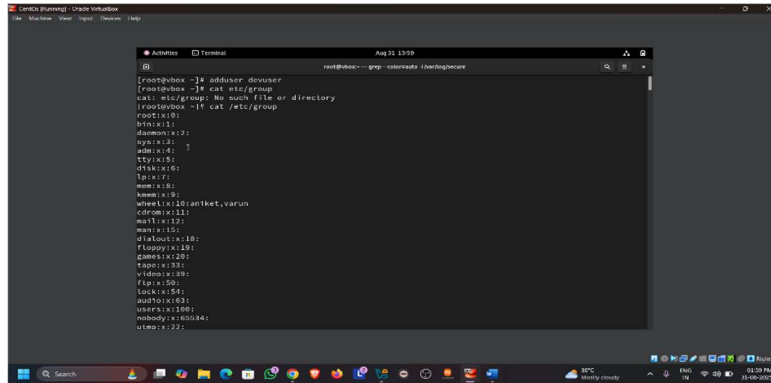
Description: Configured a secure Linux server with user management, firewall security, automated backups, and system monitoring.

Technologies Used: Linux (Ubuntu/CentOS), Bash, SSH, Fail2Ban, UFW, Auditd, Cron Jobs.

Step 1. User Management & SSH Security

Create a new user

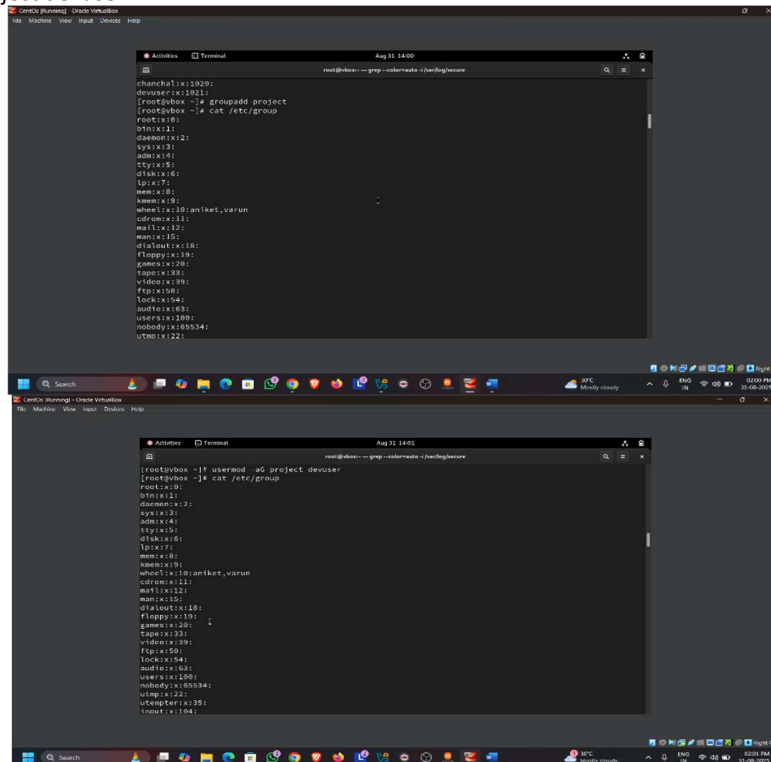
adduser devuser



```
root@devbox: ~# adduser devuser
[devbox: ~]# cat /etc/group
cat: /etc/group: No such file or directory
[devbox: ~]# cat /etc/group
root:x:0:
bin:x:1:
daemon:x:2:
sys:x:3:
adm:x:4:
tty:x:5:
disk:x:6:
lp:x:7:
mem:x:8:
kmem:x:9:
wheel:x:10:aniket,varun
cdrom:x:11:
mail:x:12:
man:x:13:
dialout:x:14:
floppy:x:15:
games:x:20:
tape:x:33:
video:x:34:
ftp:x:50:
lock:x:54:
uucp:x:100:
nobody:x:65534:
utmp:x:22:
```

Add user to project group

usermod -aG project devuser



```
chanchal@devbox: ~$ groupadd project
[devbox: ~]# cat /etc/group
root:x:0:
bin:x:1:
daemon:x:2:
sys:x:3:
adm:x:4:
tty:x:5:
disk:x:6:
lp:x:7:
mem:x:8:
kmem:x:9:
wheel:x:10:aniket,varun
cdrom:x:11:
mail:x:12:
man:x:13:
dialout:x:14:
floppy:x:15:
games:x:20:
tape:x:33:
video:x:34:
ftp:x:50:
lock:x:54:
uucp:x:100:
nobody:x:65534:
utmp:x:22:

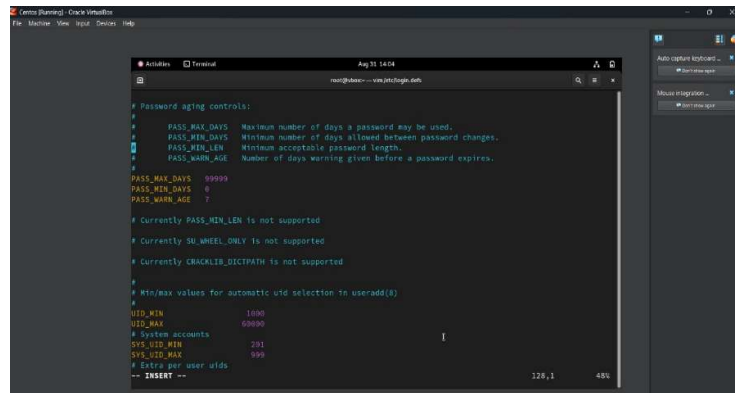
[devbox: ~]# usermod -aG project devuser
[devbox: ~]# cat /etc/group
root:x:0:
bin:x:1:
daemon:x:2:
sys:x:3:
adm:x:4:
tty:x:5:
disk:x:6:
lp:x:7:
mem:x:8:
kmem:x:9:
wheel:x:10:aniket,varun
cdrom:x:11:
mail:x:12:
man:x:13:
dialout:x:14:
floppy:x:15:
games:x:20:
tape:x:33:
video:x:34:
ftp:x:50:
lock:x:54:
uucp:x:100:
nobody:x:65534:
utmp:x:22:
project:x:1001:
```

Force strong password policy (vim /etc/login.defs or /etc/security/pwquality.conf)

PASS_MAX_DAYS 90

PASS_MIN_DAYS 7

PASS_WARN_AGE 14



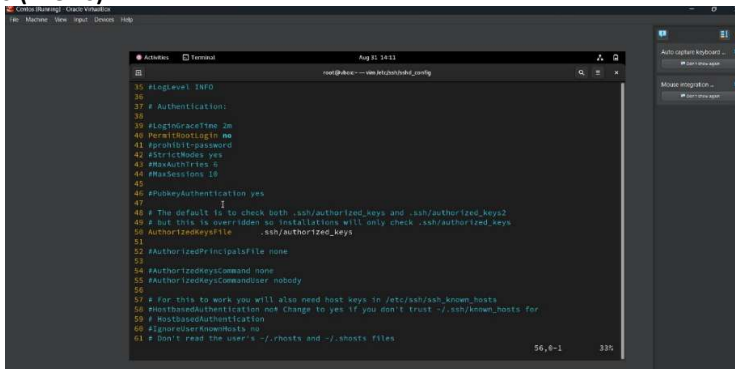
```
# Password aging controls:
#
#   PASS_MAX_DAYS   Maximum number of days a password may be used.
#   PASS_MIN_DAYS   Minimum number of days allowed between password changes.
#   PASS_MIN_LEN     Minimum acceptable password length.
#   PASS_WARN_AGE    Number of days warning given before a password expires.
#
PASS_MAX_DAYS 99999
PASS_MIN_DAYS 0
PASS_WARN_AGE 7

# Currently PASS_MIN_LEN is not supported
# Currently SU_WHEEL_ONLY is not supported
# Currently CRACKLIB_DICTPATH is not supported

# Min/max values for automatic uid selection in useradd(s)
#
UID_MIN 1000
UID_MAX 65536
# System accounts
SYS_UID_MIN 200
SYS_UID_MAX 999
# Extra per user uids
-- INSERT --
```

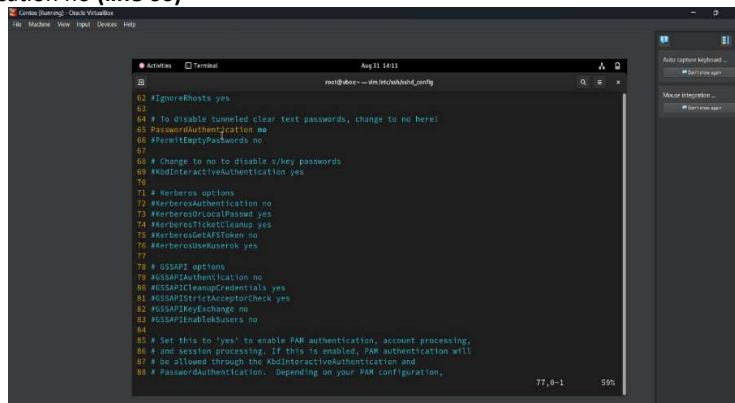
Disable root login & password authentication (vim /etc/ssh/sshd_config)

PermitRootLogin no (line 40)



```
35 #LogLevel INFO
36
37 # Authentication:
38
39 # LoginGraceTime 2m
40 PermitRootLogin no
41 # PermittedCiphers
42 # StrictModes yes
43 # MaxAuthTries 6
44 # MaxSessions 10
45
46 # PubkeyAuthentication yes
47
48 # The default is to check both .ssh/authorized_keys and .ssh/authorized_keys2
49 # but this is overridden so installation will only check .ssh/authorized_keys
50 AuthorizedKeysFile .ssh/authorized_keys
51
52 # AuthorizedPrincipalsFile none
53
54 # AuthorizedKeysCommand none
55 # AuthorizedKeysCommandUser nobody
56
57 # For this to work you will also need host keys in /etc/ssh/ssh_known_hosts
58 # HostbasedAuthentication no
59 # HostbasedAuthentication
60 # IgnoreUserKnownHosts no
61 # Don't read the user's ~/.rhosts and ~/.shosts files
```

PasswordAuthentication no (line 66)



```
62 # IgnoreRhosts yes
63
64 # To disable tunnelled clear text passwords, change to no here!
65 PasswordAuthentication no
66 # PermitEmptyPasswords no
67
68 # Change to no to disable s/key passwords
69 # KbdInteractiveAuthentication yes
70
71 # Kerberos options
72 # KerberosAuthentication no
73 # KerberosLocalPasswd yes
74 # KerberosTicketCleanup yes
75 # KerberosGetAFSToken no
76 # KerberosUseUserok yes
77
78 # GSSAPI options
79 # GSSAPIAuthentication no
80 # GSSAPICleanupCredentials yes
81 # GSSAPITrustAcceptorCheck yes
82 # GSSAPIKeyExchange no
83 # GSSAPIInitiateUsers no
84
85 # Set this to 'yes' to enable PAM authentication, account processing,
86 # and session processing. If this is enabled, PAM authentication will
87 # be allowed through the KbdInteractiveAuthentication and
88 # PasswordAuthentication. Depending on your PAM configuration,
```

Restart SSH service

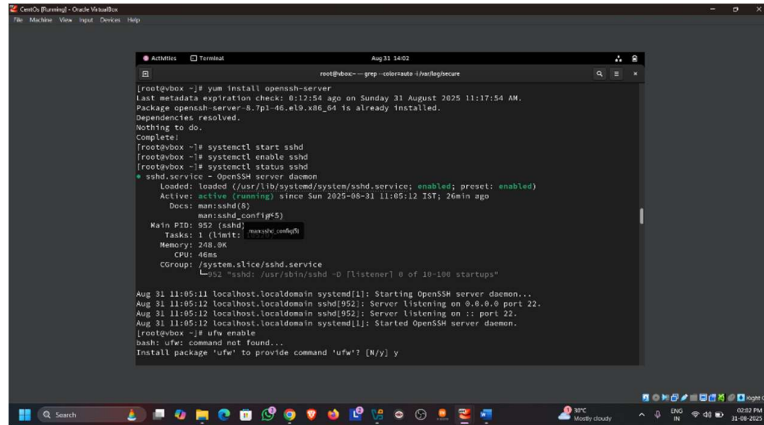
systemctl restart ssh

yum install openssh-server

systemctl start sshd

systemctl enable sshd

systemctl enable sshd



```
root@dhcp-...-grp-colocate-1:~/sshlogbucare
[root@dhcpbox ~]# yum install openssh-server
Last metadata expiration check: 8:17:54 ago on Sunday 31 August 2025 11:17:54 AM.
Package openssh-server-9.7p1-46.el9.norarch is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@dhcpbox ~]# systemctl start sshd
[root@dhcpbox ~]# systemctl enable sshd
[root@dhcpbox ~]# systemctl status sshd
● sshd.service - OpenSSH server daemon
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; preset: enabled)
   Active: active (running) since Sun 2025-08-31 11:05:12 IST; 26min ago
     Docs: man:ssh(8)
           man:ssh_config(5)
    Main PID: 952 (sshd)
      Tasks: 1 (limit: none)
    Memory: 248.0K
       CPU: 4ms
    CGroup: /system.slice/ssh.service
            └─0 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups

Aug 31 11:05:11 localhost.localdomain systemd[1]: Starting OpenSSH server daemon...
Aug 31 11:05:12 localhost.localdomain systemd[1]: Started OpenSSH server daemon...
Aug 31 11:05:12 localhost.localdomain sshd[952]: Server listening on 0.0.0.0 port 22.
Aug 31 11:05:12 localhost.localdomain sshd[952]: Server listening on :: port 22.
Aug 31 11:05:12 localhost.localdomain systemd[1]: Started OpenSSH server daemon.
[root@dhcpbox ~]# ufw enable
bash: ufw: command not found...
Install package 'ufw' to provide command 'ufw'? [N/y] y
```

Step 2. Firewall Configuration (Uncomplicated Firewall)

Enable UFW

ufw enable (command)

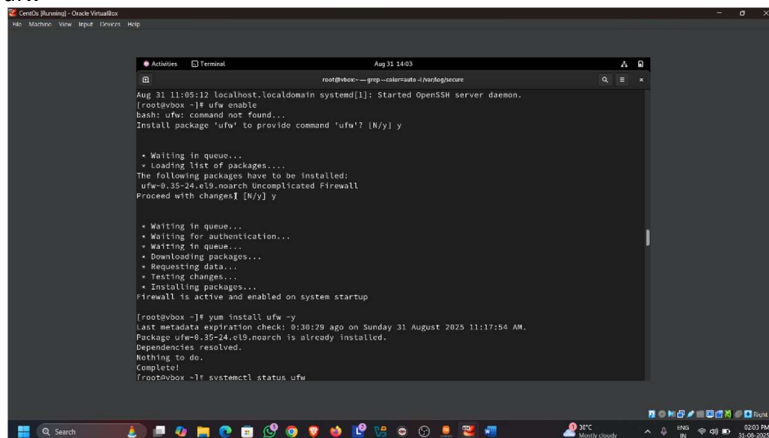
yum install ufw -y

msg: install package 'ufw' to provide command 'ufw'? [N/y] y

msg: proceed with changes? [N/y] y

msg: Firewall is active & enabled on system startup

systemctl enable ufw

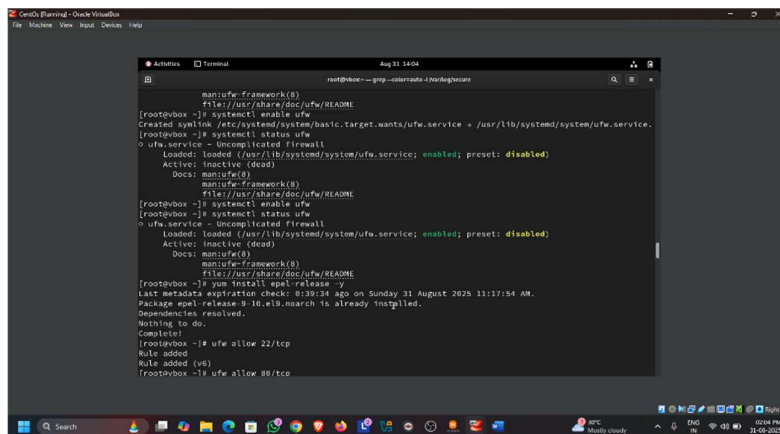


```
Aug 31 11:05:12 localhost.localdomain systemd[1]: Started OpenSSH server daemon.
[root@dhcpbox ~]# ufw enable
bash: ufw: command not found...
Install package 'ufw' to provide command 'ufw'? [N/y] y

• Waiting in queue...
• Loading list of packages...
The following packages have to be installed:
ufw-0.35-24.el9.norarch Uncomplicated Firewall
Proceed with changes? [N/y] y

• Waiting in queue...
• Waiting for authentication...
• Waiting in queue...
• Downloading packages...
• Requesting data...
• Testing changes...
• Installing packages...
Firewall is active and enabled on system startup

[root@dhcpbox ~]# yum install ufw -y
Last metadata expiration check: 8:20:29 ago on Sunday 31 August 2025 11:17:54 AM.
Package ufw-0.35-24.el9.norarch is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@dhcpbox ~]# systemctl status ufw
```



```
man:ufw-framework(8)
file:///usr/share/doc/ufw/README
[root@dhcpbox ~]# systemctl enable ufw
Created symlink /etc/systemd/system/basic.target.wants/ufw.service → /usr/lib/systemd/system/ufw.service.
[root@dhcpbox ~]# systemctl status ufw
● ufw.service - Uncomplicated Firewall
   Loaded: loaded (/usr/lib/systemd/system/ufw.service; enabled; preset: disabled)
   Active: inactive (dead)
     Docs: man:ufw(8)
           man:ufw-framework(8)
           file:///usr/share/doc/ufw/README
[root@dhcpbox ~]# systemctl enable ufw
[root@dhcpbox ~]# systemctl status ufw
● ufw.service - Uncomplicated Firewall
   Loaded: loaded (/usr/lib/systemd/system/ufw.service; enabled; preset: disabled)
   Active: inactive (dead)
     Docs: man:ufw(8)
           man:ufw-framework(8)
           file:///usr/share/doc/ufw/README
[root@dhcpbox ~]# yum install epel-release -y
Last metadata expiration check: 8:23:14 ago on Sunday 31 August 2025 11:17:54 AM.
Package epel-release-9.10.el9.norarch is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@dhcpbox ~]# ufw allow 22/tcp
Rule added
Rule added (v6)
[root@dhcpbox ~]# ufw allow 80/tcp
```

Allow only required ports

ufw allow 22/tcp

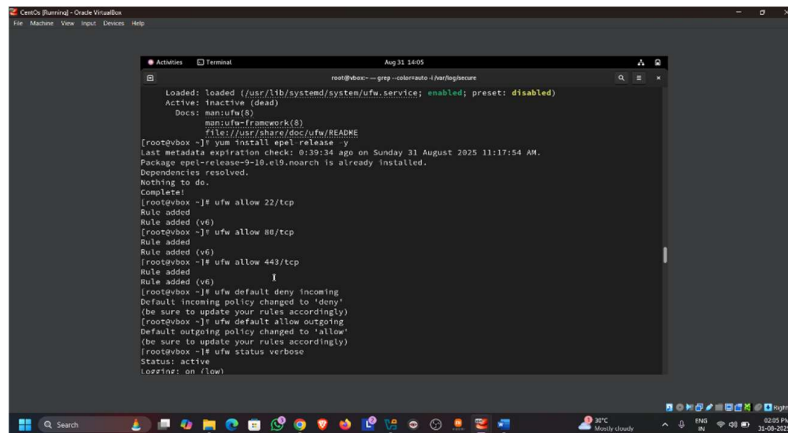
SSH

ufw allow 80/tcp

HTTP

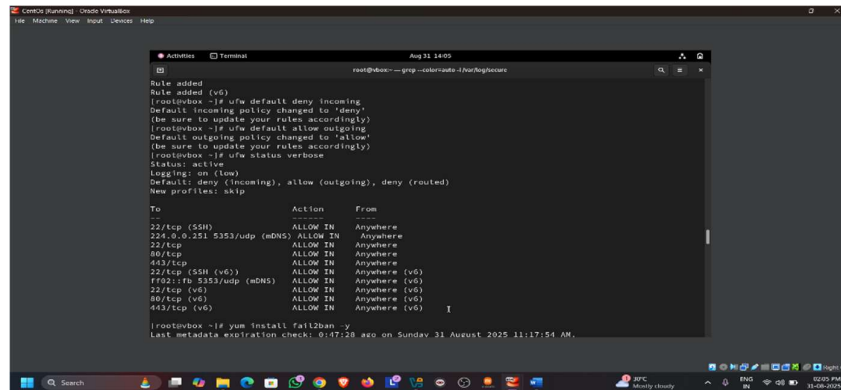
ufw allow 443/tcp

HTTPS



```
root@dhcp-11b: ~# ufw --colorauto -i /usr/bin/ssh
Loaded: loaded (/usr/lib/systemd/system/ufw.service; enabled; preset: disabled)
Active: inactive (dead)
Docs: man:ufw(8)
      man:ufw-framework(8)
      file:///usr/share/doc/ufw/README
[root@dhcp-11b: ~]# yum install epel-release -y
Last metadata expiration check: 0:39:34 ago on Sunday 31 August 2025 11:17:54 AM.
Package epel-release-0-10.el9.noarch is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@dhcp-11b: ~]# ufw allow 22/tcp
Rule added
Rule added (v6)
[root@dhcp-11b: ~]# ufw allow 80/tcp
Rule added
Rule added (v6)
[root@dhcp-11b: ~]# ufw allow 443/tcp
Rule added
Rule added (v6)
[root@dhcp-11b: ~]# ufw default deny incoming
Default incoming policy changed to 'deny'
(be sure to update your rules accordingly)
[root@dhcp-11b: ~]# ufw default allow outgoing
Default outgoing policy changed to 'allow'
(be sure to update your rules accordingly)
[root@dhcp-11b: ~]# ufw status verbose
Status: active
Logging: on (low)
Default: deny (incoming), allow (outgoing), deny (routed)
New profiles: none
```

Deny everything else
ufw default deny incoming
ufw default allow outgoing
Check status
ufw status verbose

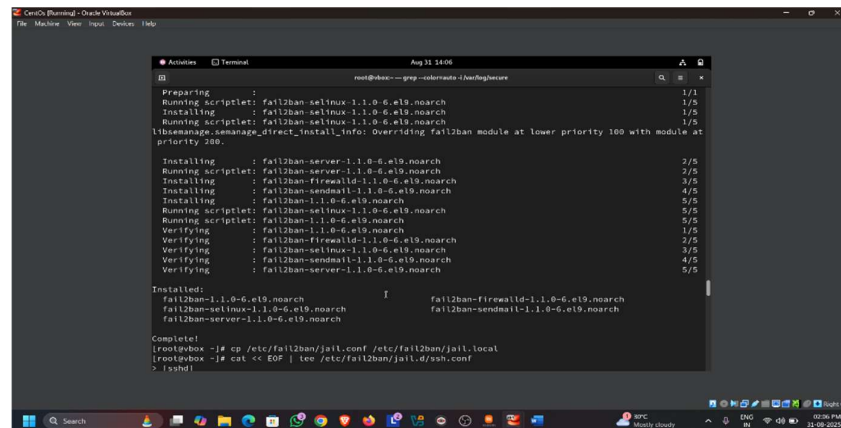


```
root@dhcp-11b: ~# ufw status verbose
Status: active
Logging: on (low)
Default: deny (incoming), allow (outgoing), deny (routed)
New profiles: none
```

To	Action	From
22/tcp (SSH)	ALLOW IN	Anywhere
224.x.0.251 5353/udp (mDNS)	ALLOW IN	Anywhere
22/tcp	ALLOW IN	Anywhere
80/tcp	ALLOW IN	Anywhere
443/tcp	ALLOW IN	Anywhere
22/tcp (SSH (v6))	ALLOW IN	Anywhere (v6)
ff02::1::5353/udp (mDNS)	ALLOW IN	Anywhere (v6)
22/tcp (v6)	ALLOW IN	Anywhere (v6)
80/tcp (v6)	ALLOW IN	Anywhere (v6)
443/tcp (v6)	ALLOW IN	Anywhere (v6)

Step 3. Intrusion Prevention with Fail2Ban

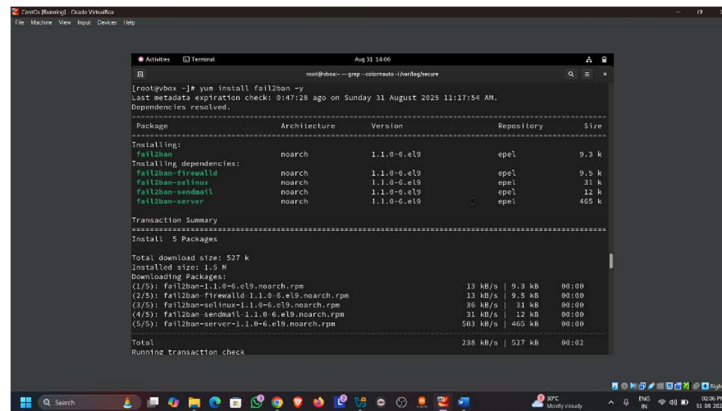
Install Fail2Ban
yum install fail2ban -y



```
root@dhcp-11b: ~# yum install fail2ban -y
Preparing : fail2ban-selinux-1.1.0-6.el9.noarch 1/1
Running scriptlet: fail2ban-selinux-1.1.0-6.el9.noarch 1/5
Installing : fail2ban-selinux-1.1.0-6.el9.noarch 1/5
Running scriptlet: fail2ban-selinux-1.1.0-6.el9.noarch 1/5
libsemanage, semanage_direct_install_info: Overriding fail2ban module at lower priority 100 with module at priority 200.
Installing : fail2ban-server-1.1.0-6.el9.noarch 2/5
Running scriptlet: fail2ban-server-1.1.0-6.el9.noarch 2/5
Installing : fail2ban-firewall-1.1.0-6.el9.noarch 3/5
Installing : fail2ban-sendmail-1.1.0-6.el9.noarch 4/5
Installing : fail2ban-1.1.0-6.el9.noarch 5/5
Running scriptlet: fail2ban-selinux-1.1.0-6.el9.noarch 5/5
Running scriptlet: fail2ban-1.1.0-6.el9.noarch 5/5
Verifying : fail2ban-1.1.0-6.el9.noarch 1/5
Verifying : fail2ban-firewall-1.1.0-6.el9.noarch 2/5
Verifying : fail2ban-selinux-1.1.0-6.el9.noarch 3/5
Verifying : fail2ban-sendmail-1.1.0-6.el9.noarch 4/5
Verifying : fail2ban-server-1.1.0-6.el9.noarch 5/5

Installed:
fail2ban-1.1.0-6.el9.noarch fail2ban-firewall-1.1.0-6.el9.noarch
fail2ban-selinux-1.1.0-6.el9.noarch fail2ban-sendmail-1.1.0-6.el9.noarch
fail2ban-server-1.1.0-6.el9.noarch

Complete!
[root@dhcp-11b: ~]# cp /etc/fail2ban/jail.conf /etc/fail2ban/jail.local
[root@dhcp-11b: ~]# cat << EOF | tee /etc/fail2ban/jail.d/ssh.conf
[ssh]
enabled = true
filter = sshd
logpath = /var/log/secure
maxretry = 5
bantime = 3600
EOF
```



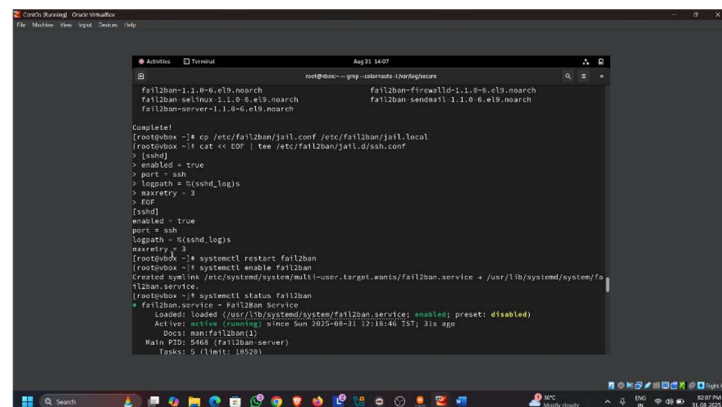
```
root@dhcp-...-grp-colocate-1:~# yum install fail2ban -y
Last metadata expiration check: 0:47:28 ago on Sunday 31 August 2020 11:17:04 AM.
Dependencies resolved.
=====
Package                Architecture      Version           Repository        Size
-----
Installing:
fail2ban               noarch            1.1.0-6.el9      epel               9.3 k
Installing dependencies:
fail2ban-firewall      noarch            1.1.0-6.el9      epel               9.5 k
fail2ban-selinux       noarch            1.1.0-6.el9      epel               31 k
fail2ban-sendmail      noarch            1.1.0-6.el9      epel               12 k
fail2ban-server        noarch            1.1.0-6.el9      epel              465 k
-----
Transaction Summary
=====
Install: 5 Packages
Total download size: 527 k
Installed size: 1.6 M
Downloading Packages:
(1/5): fail2ban-1.1.0-6.el9.noarch.rpm    13 kB/s | 9.3 kB  00:00
(2/5): fail2ban-firewall-1.1.0-6.el9.noarch.rpm 36 kB/s | 31 kB  00:00
(3/5): fail2ban-selinux-1.1.0-6.el9.noarch.rpm 31 kB/s | 12 kB  00:00
(4/5): fail2ban-sendmail-1.1.0-6.el9.noarch.rpm 563 kB/s | 465 kB 00:00
(5/5): fail2ban-server-1.1.0-6.el9.noarch.rpm 235 kB/s | 527 kB 00:02
Total
Running transaction check
Total: 235 kB/s | 527 kB 00:02
```

Copy default config

```
cp /etc/fail2ban/jail.conf /etc/fail2ban/jail.local
```

Example SSH protection config

```
cat <<EOF | tee /etc/fail2ban/jail.d/ssh.conf
[sshd]
enabled = true
port = ssh
logpath = %(sshd_log)s
maxretry = 3
EOF
```



```
fail2ban-1.1.0-6.el9.noarch      fail2ban-firewall-1.1.0-6.el9.noarch
fail2ban-selinux-1.1.0-6.el9.noarch fail2ban-sendmail-1.1.0-6.el9.noarch

Complete!
[root@dhcp-...-grp-colocate-1:~# cp /etc/fail2ban/jail.conf /etc/fail2ban/jail.local
[root@dhcp-...-grp-colocate-1:~# cat << EOF | tee /etc/fail2ban/jail.d/ssh.conf
> [sshd]
> enabled = true
> port = ssh
> logpath = %(sshd_log)s
> maxretry = 3
> EOF
[sshd]
enabled = true
port = ssh
logpath = %(sshd_log)s
maxretry = 3
[root@dhcp-...-grp-colocate-1:~# systemctl restart fail2ban
[root@dhcp-...-grp-colocate-1:~# systemctl enable fail2ban
Created symlink /etc/systemd/system/multi-user.target.wants/fail2ban.service + /usr/lib/systemd/system/fail2ban.service
[root@dhcp-...-grp-colocate-1:~# systemctl status fail2ban
* fail2ban.service - fail2ban Service
   Loaded: loaded (/usr/lib/systemd/system/fail2ban.service; enabled; preset: disabled)
   Active: active (running) since Sun 2020-08-31 12:18:46 IST; 31s ago
     Docs: man:fail2ban(1)
    Main PID: 5468 (fail2ban-server)
    Tasks: 5 (limit: 1825)
```

Restart Fail2Ban

```
systemctl restart fail2ban
systemctl enable fail2ban
```

```

root@4d0ee:~# port = ssh
root@4d0ee:~# logpath = /usr/lib/systemd/journald
root@4d0ee:~# maxretry = 3
root@4d0ee:~# systemctl restart fail2ban
root@4d0ee:~# systemctl enable fail2ban
Created symlink /etc/systemd/system/multi-user.target.wants/fail2ban.service → /usr/lib/systemd/system/fail2ban.service.
root@4d0ee:~# systemctl status fail2ban
● fail2ban.service - Fail2Ban Service
   Loaded: loaded (/usr/lib/systemd/system/fail2ban.service; enabled; preset: disabled)
   Active: active (running) since Sun 2025-08-31 12:18:46 EST; 31s ago
     Main PID: 5468 (fail2ban-server)
       Tasks: 5 (limit: 10520)
      Memory: 14.7M
         CPU: 22ms
    CGroup: /system.slice/fail2ban.service
            └─sshd /usr/bin/psync /usr/bin/fail2ban-server -sf start

Aug 31 12:18:46 vbox systemd[1]: Starting fail2ban Service...
Aug 31 12:18:46 vbox systemd[1]: Started fail2ban Service.
Aug 31 12:18:47 vbox fail2ban server[5468]: Server ready
root@4d0ee:~# /usr/local/bin/backup.sh
bash: /usr/local/bin/backup.sh: No such file or directory
root@4d0ee:~# vim /usr/local/bin/backup.sh
root@4d0ee:~# vim /usr/local/bin/backup.sh
root@4d0ee:~# chmod +x /usr/local/bin/backup.sh
root@4d0ee:~# crontab -e
crontab: installing new crontab

```

4. Automated Backups (Bash + Cron)

Backup Script (/usr/local/bin/backup.sh)

```
#!/bin/bash
```

```
# Backup important directories to /backup with timestamp
```

```
BACKUP_DIR="/backup/$(date +%Y-%m-%d)"
```

```
SOURCE_DIRS="/etc /home /var/www"
```

```
mkdir -p "$BACKUP_DIR"
```

```
rsync -a $SOURCE_DIRS "$BACKUP_DIR"
```

```
# Keep only last 7 backups
```

```
find /backup/* -type d -mtime +7 -exec rm -rf {} \;
```

Make it executable:

```
chmod +x /usr/local/bin/backup.sh
```

Add to cron (daily backup at 2 AM):

```
crontab -e
```

```
(updated 30 13 * * * /usr/local/bin/backup.sh >> /var/log/backup.log 2>&1
```

```
0 2 * * * /usr/local/bin/backup.sh >> /var/log/backup.log 2>&1
```

```

root@4d0ee:~# yum install auditd
Last metadata expiration check: 1:25:36 ago on Sunday 31 August 2025 11:17:54 AM.
No match for argument: Auditd
Error: Unable to find a match: Auditd
[root@4d0ee:~# install auditd
Install existing destination file operand after 'Auditd'
Try 'install --help' for more information.
[root@4d0ee:~# yum install Auditd
Last metadata expiration check: 1:26:33 ago on Sunday 31 August 2025 11:17:54 AM.
No match for argument: Auditd
= Maybe you meant: auditd
Error: Unable to find a match: Auditd
[root@4d0ee:~# yum install auditd
Last metadata expiration check: 1:26:55 ago on Sunday 31 August 2025 11:17:54 AM.
Package audit-libs-3.1.2-19.el9.x86_64 is already installed.
dependencies resolved.
Nothing to do.
Complete!
[root@4d0ee:~# systemctl enable auditd
[root@4d0ee:~# systemctl start auditd
[root@4d0ee:~# systemctl status auditd

```

Step 5. System Monitoring & Auditing

Install Auditd (yum install audit -y)

```
sudo apt install auditd -y
```

```
systemctl enable auditd
```

```
systemctl start auditd
```

The screenshot shows a Windows 11 desktop. At the top, a Windows Security notification is visible, stating 'Your PC is secure' and 'No threats were detected'. Below this, a terminal window is open, displaying the output of the command 'sudo systemctl status auditd'. The terminal output shows that the 'auditd' service is active and running, with details about its configuration and status. The terminal window title is 'Terminal' and the prompt is 'root@rhino: ~#'. The desktop background is a dark blue gradient with a grid of application icons at the bottom.

```

• Maybe you meant: auditd
Error: Unable to find a match: Auditd
[root@rhino ~]# systemctl enable auditd
[root@rhino ~]# systemctl start auditd
Last metadata expiration check: 17:26:55 ago on Sunday 31 August 2025 11:37:54 AM.
Package auditd-3.1.5-7.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@rhino ~]# systemctl enable auditd
[root@rhino ~]# systemctl start auditd
[root@rhino ~]# systemctl status auditd
● auditd.service - Security Auditing Service
   Loaded: loaded (/usr/lib/systemd/system/auditd.service; enabled; preset: enabled)
   Active: active (running) since Sun 2025-08-31 11:04:55 IST; 1h 41min ago
     Docs: man:auditd(8)
           https://github.com/linux-audit/audit-documentation
   Main PID: 608 (auditd)
     Tasks: 4 (limit: 10209)
    Memory: 2.2M
       CPU: 346ms
     CGroup: /system.slice/auditd.service
             └─ /usr/sbin/auditd
                 └─ /usr/sbin/auditdpatch

Aug 31 11:04:50 localhost auditrules[718]: enabled 1
Aug 31 11:04:50 localhost auditrules[718]: failure 1
Aug 31 11:04:50 localhost auditrules[718]: pid 608
Aug 31 11:04:50 localhost auditrules[718]: rate-limit 0
Aug 31 11:04:50 localhost auditrules[718]: backlog limit 8192
  
```

Add monitoring rules (/etc/audit/rules.d/audit.rules):

```
# Track modifications to /etc/passwd
```

```
-w /etc/passwd -p wa -k passwd_changes
```

```
# Track sudo usage
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```
-w /var/log/sudo.log -p wa -k sudo_activity
```

Restart Auditd:

```
sudo systemctl restart auditd
```

Check logs:

We trust you have received the usual lecture from the Local System Administrator. It usually boils down to these three things:

- 1) Respect the privacy of others.
- 2) Think before you type.
- 3) With great power comes great responsibility.

[sudo: password for devuser]:
Changing password for user root.
New password:
BAD PASSWORD: The password fails the dictionary check - it is too simplistic/systematic
Retype new password:
passwd: all authentication tokens updated successfully.
[devuser@root ~]\$ who
Password:
[root@root ~]# su -s /bin/bash -c 'passwd,changes
====
time=Sun Aug 31 13:51:56 2025
type=ROOTKIT tty=pts/0 uid=1376628515,42518: proctitle=/usr/sbin/passwd 276154697463748C082029672637462761756
406742627617566042761756453761
type=SYSCALL msg=audit(175628515.42518): arch=0 arch=0 syscall=44 success=yes exit=1084 a0=3 a1=7ffff602b
f290 a2=43c a3=4 item=pidfdopen pid=6789 audit=4294967295 uid=0 gid=0 euid=0 suid=0 fsuid=0 egid=0
type=EXECVE argv=(null) exe="/usr/sbin/auditctl" subj=system_u:system_runcon
cmd=service:stop httpd
type=CONFIG_CHANGE msg=audit(1756628515.42518): auuid=4294967295 ses=4294967295 subj=system_u:system_runcon
cmd=service:stop httpd key="passwd:change" lttid=rcst
[root@root ~]#

```
ausearch -k passwd changes
```

```
ausearch -k sudo activity
```

[illegible]

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