

(4.)Disable root user for SSH in CentOS-8

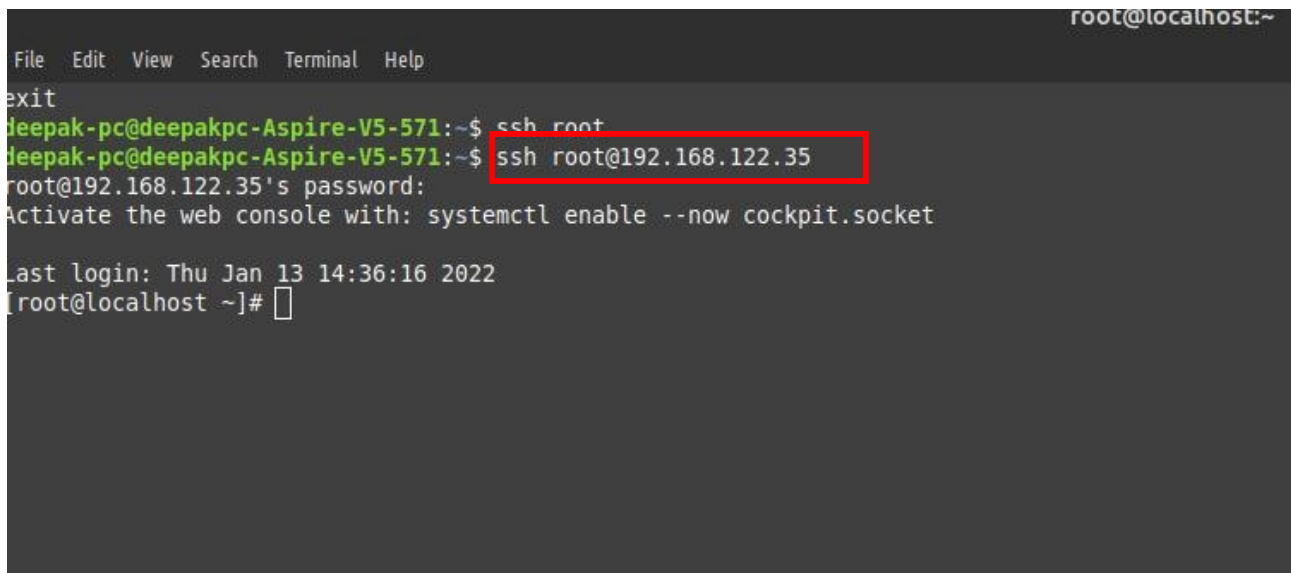
first of all, I log in to your server console with a normal account with root privileges by issuing the below commands.

```
[vm@localhost ~]$ su -
```

```
Password: *****
```

```
[root@localhost ~]#
```

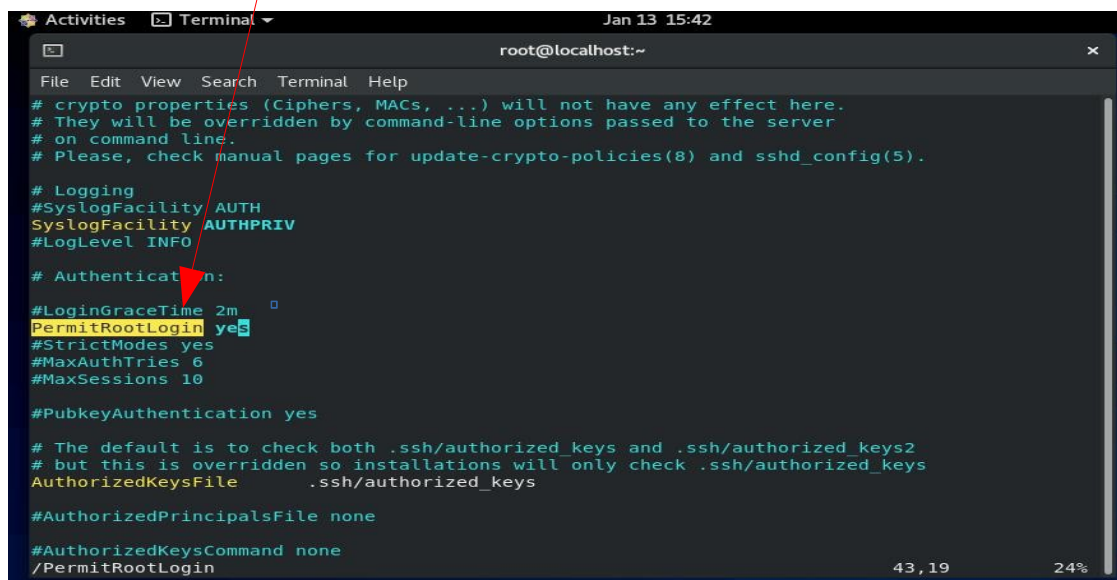
First, I'll login to ssh to see the current time and see that I'm able to log in to ssh run following commands:

A terminal window titled 'root@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command 'exit' followed by 'ssh root' and 'ssh root@192.168.122.35' (the latter is highlighted with a red box). Below this, it shows the password prompt, a message to activate the web console, the last login time 'Thu Jan 13 14:36:16 2022', and the root prompt '[root@localhost ~]#'.

```
root@localhost:~  
File Edit View Search Terminal Help  
exit  
deepak-pc@deepakpc-Aspire-V5-571:~$ ssh root  
deepak-pc@deepakpc-Aspire-V5-571:~$ ssh root@192.168.122.35  
root@192.168.122.35's password:  
Activate the web console with: systemctl enable --now cockpit.socket  
  
Last login: Thu Jan 13 14:36:16 2022  
[root@localhost ~]#
```

After that, I logged in to console, open the main SSH configuration file for editing with your favorite text editor like **vim** by issuing the below command. - **PermitRootLogin no**

Go to ---> **vim /etc/ssh/sshd_config** and Search **PermitRootLogin**

A terminal window titled 'root@localhost:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the contents of the '/etc/ssh/sshd_config' file. A red arrow points to the 'PermitRootLogin yes' line. The file content includes sections for crypto properties, logging, authentication, and authorized keys.

```
Activities Terminal Jan 13 15:42  
root@localhost:~  
File Edit View Search Terminal Help  
# crypto properties (Ciphers, MACs, ...) will not have any effect here.  
# They will be overridden by command-line options passed to the server  
# on command line.  
# Please, check manual pages for update-crypto-policies(8) and sshd_config(5).  
  
# Logging  
#SyslogFacility AUTH  
SyslogFacility AUTHPRIV  
#LogLevel INFO  
  
# Authentication:  
#LoginGraceTime 2m  
PermitRootLogin yes  
#StrictModes yes  
#MaxAuthTries 6  
#MaxSessions 10  
  
#PubkeyAuthentication yes  
  
# The default is to check both .ssh/authorized_keys and .ssh/authorized_keys2  
# but this is overridden so installations will only check .ssh/authorized_keys  
AuthorizedKeysFile .ssh/authorized_keys  
  
#AuthorizedPrincipalsFile none  
  
#AuthorizedKeysCommand none  
/PermitRootLogin  
43,19 24%
```

after that press **:wq** save and Exit of file.and restart the **SSH daemon** to apply changes by issuing one of the below commands, specific to your Linux distribution.

```
[root@localhost ~]# systemctl restart sshd
```

```
[root@localhost ~]# service sshd restart
```

Redirecting to /bin/systemctl restart sshd.service

```
[root@localhost ~]# /etc/init.d/ssh restart
```

```
Stopping sshd: [ OK ]
```

```
Starting sshd: [ OK ]
```

```
root@localhost ~]
```

In order to test if the new configuration has been **successfully applied**, try to login with root account to the server like **base OS-linux** via SSH from a remote system by issuing the below command.

```
deepak-pc@deepakpc-Aspire-V5-571:~$ ssh root@192.168.122.35
root@192.168.122.35's password:
Permission denied, please try again.
root@192.168.122.35's password:
Permission denied, please try again.
root@192.168.122.35's password:
root@192.168.122.35: Permission denied (publickey,gssapi-keyex,gssapi-with-mic,password).
deepak-pc@deepakpc-Aspire-V5-571:~$
```

Permission Denied

(5) Create a new user and provide it root user Privilege

Step:1 first i want to create a new user with help of useradd Commands: after that i given passwd of this user

```
[root@localhost ~]# useradd admin
```

```
[root@localhost ~]# passwd admin
```

Changing password for user admin.

New password:

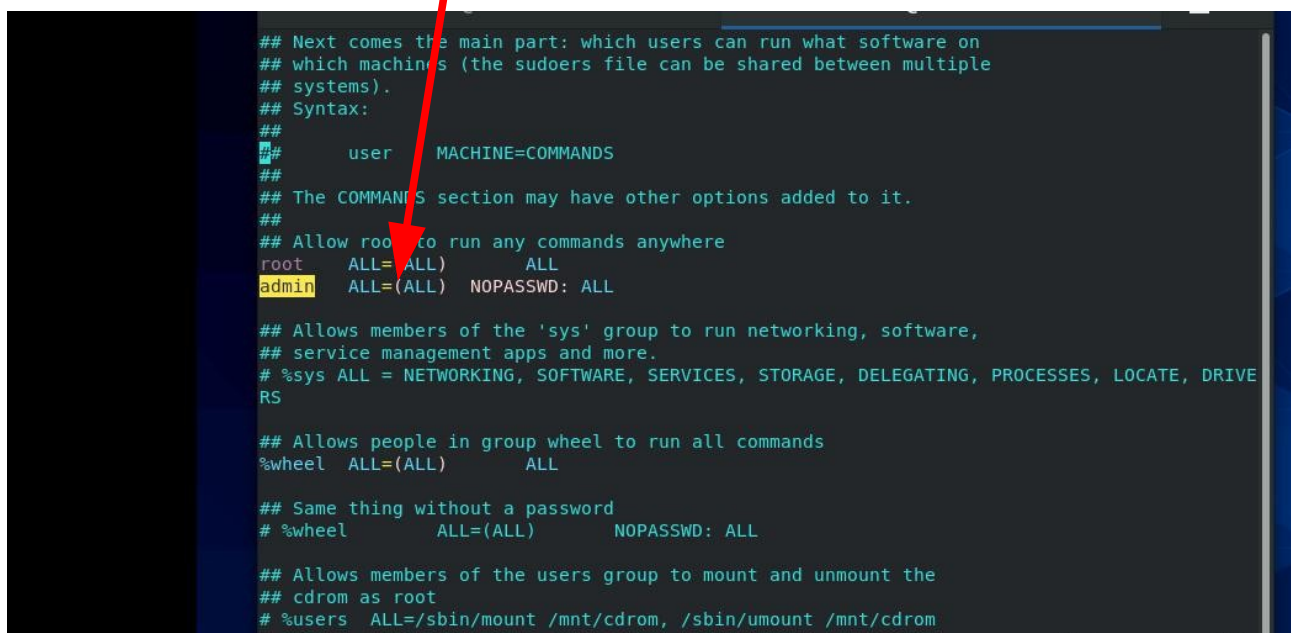
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word

Retype new password:

passwd: all authentication tokens updated successfully

STEP:2 After that i want to edit `/etc/sudoers` open with help of vim editor,After the root user line, you will add in your new user (**admin**) with the same format for us to grant admin privileges. In the same, **visudo** doing same work.

admin ALL=(ALL) NOPASSWD: ALL



```
## Next comes the main part: which users can run what software on
## which machines (the sudoers file can be shared between multiple
## systems).
## Syntax:
##
##      user    MACHINE=COMMANDS
##
## The COMMANDS section may have other options added to it.
##
## Allow root to run any commands anywhere
root    ALL=(ALL)        ALL
admin   ALL=(ALL)        NOPASSWD: ALL

## Allows members of the 'sys' group to run networking, software,
## service management apps and more.
# %sys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOCATE, DRIVE
RS

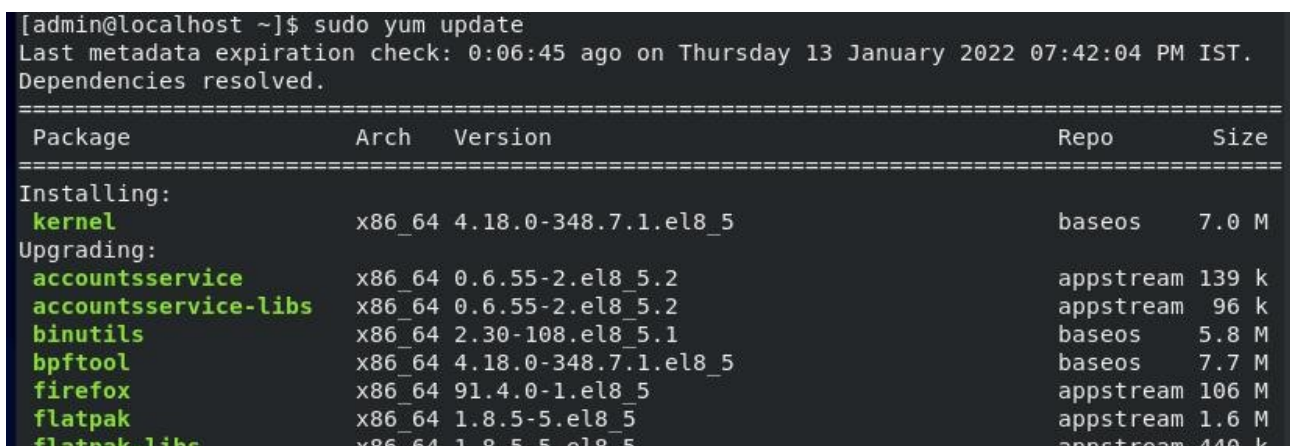
## Allows people in group wheel to run all commands
%wheel  ALL=(ALL)        ALL

## Same thing without a password
# %wheel    ALL=(ALL)        NOPASSWD: ALL

## Allows members of the users group to mount and unmount the
## cdrom as root
# %users    ALL=/sbin/mount /mnt/cdrom, /sbin/umount /mnt/cdrom
```

STEP:(3) Verify User (admin) Has Privileges

When i am run following commands,then this user will be able to run commands like, update, using the sudo.



```
[admin@localhost ~]$ sudo yum update
Last metadata expiration check: 0:06:45 ago on Thursday 13 January 2022 07:42:04 PM IST.
Dependencies resolved.
=====
Package                Arch    Version                               Repo    Size
=====
Installing:
kernel                 x86_64 4.18.0-348.7.1.el8_5                 baseos  7.0 M
Upgrading:
accountsservice        x86_64 0.6.55-2.el8_5.2                     appstream 139 k
accountsservice-libs   x86_64 0.6.55-2.el8_5.2                     appstream 96 k
binutils                x86_64 2.30-108.el8_5.1                     baseos   5.8 M
bpftool                 x86_64 4.18.0-348.7.1.el8_5                 baseos   7.7 M
firefox                 x86_64 91.4.0-1.el8_5                       appstream 106 M
flatpak                 x86_64 1.8.5-5.el8_5                       appstream 1.6 M
flatpak-libs            x86_64 1.8.5-5.el8_5                       appstream 440 k
```