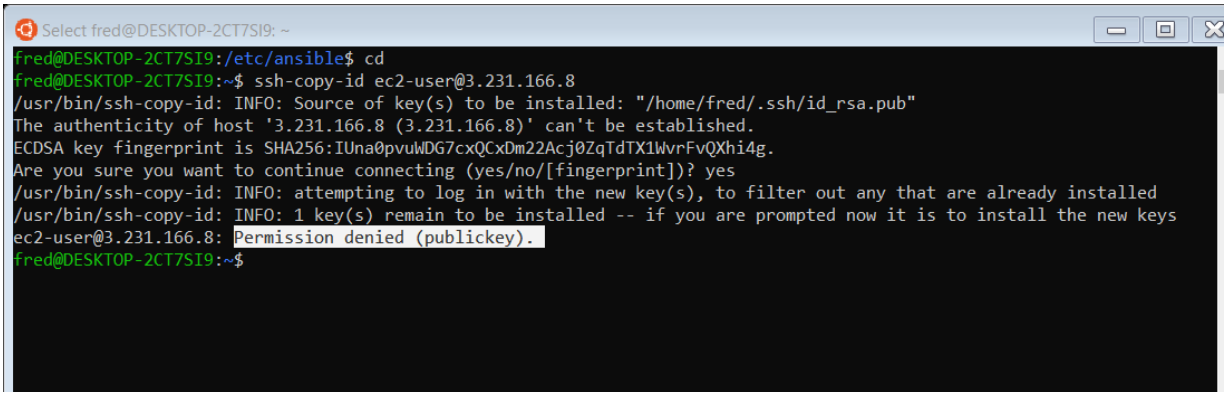
**COMMON ERRORS THAT OCCUR WHEN WORKING WITH ANSIBLE**

# A: when trying to copy the public key to the node.

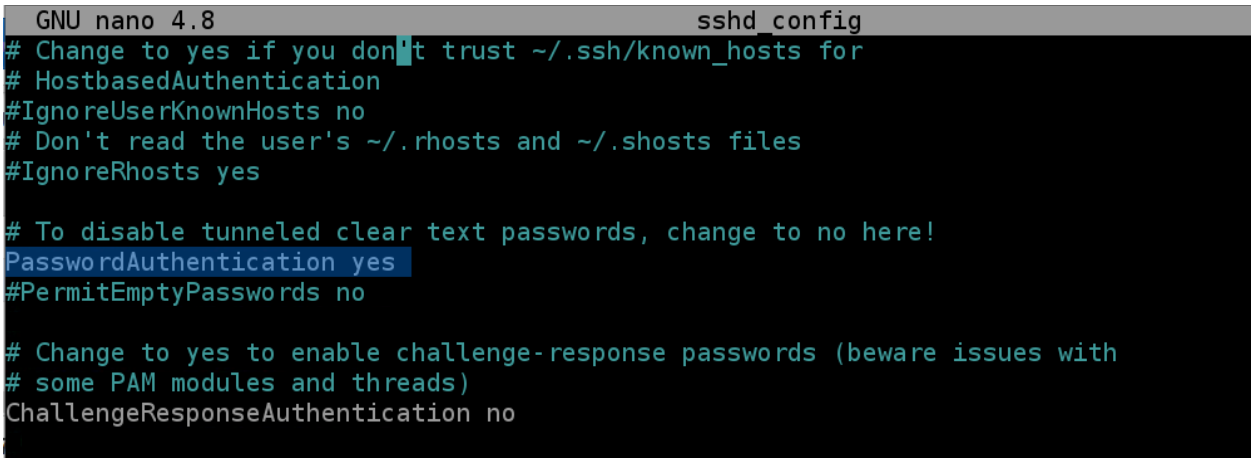
**Main error: Permission_denied (publickey)**




# SOLUTION

**Step 1: log into the node**

- Type *sudo su* to switch privilege to root.
- Move to *ssh* directory by typing *cd /etc/ssh*
- While in **ssh** directory nano into *sshd_config*
- Under #PermissionAuthentication
- Change **PasswordAuthentication no** to **PasswordAuthentication yes**



**Now to refresh ssh directory depends on the Linux distro you are using**

- **For ubuntu type -------→** ***service ssh restart***

OR

```
# PasswordAuthentication.  Depending on your PAM configura


root@ip-172-16-0-105:/etc/ssh# service ssh restart
root@ip-172-16-0-105:/etc/ssh#
```

- **For any other Linux distro, type ------→** service *sshd restart*

```
[root@ip-172-16-0-66 ssh]# service sshd restart
Stopping sshd:                                             [  OK  ]
Starting sshd:                                             [  OK  ]
[root@ip-172-16-0-66 ssh]#
```

**Step 3: Go back and run the *ssh-copy-id user@target* command again.**

```
fred@DESKTOP-2CT7SI9:~$ ssh-copy-id ubuntu@75.101.222.125
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/fred/.ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
ubuntu@75.101.222.125's password:
```

Everything looks great, but password is needed to authenticate the user.

**Step 3: Create the *user's* password**

Go back to the **note and type *sudo passwd user_name.***

**Enter your preferred *password*.**

```
ubuntu@ip-172-16-0-105:~$ sudo passwd ubuntu
New password:
Retype new password:
passwd: password updated successfully
ubuntu@ip-172-16-0-105:~$
```

**Now, go back and enter the *password* you just created to authenticate the user.**

```
fred@DESKTOP-2CT7SI9:~$ ssh-copy-id ubuntu@75.101.222.125
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/fred/.ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
ubuntu@75.101.222.125's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'ubuntu@75.101.222.125'"
and check to make sure that only the key(s) you wanted were added.

fred@DESKTOP-2CT7SI9:~$
```

**Result:**

- **Number of key(s) added: 1**
- **Now try logging into the machine, with *"ssh 'ubuntu@75.101.222.125'"* and check to make sure that only the key(s) you wanted were added**

**Ok, Let's try logging into the machine, with: *"ssh 'ubuntu@75.101.222.125'"***

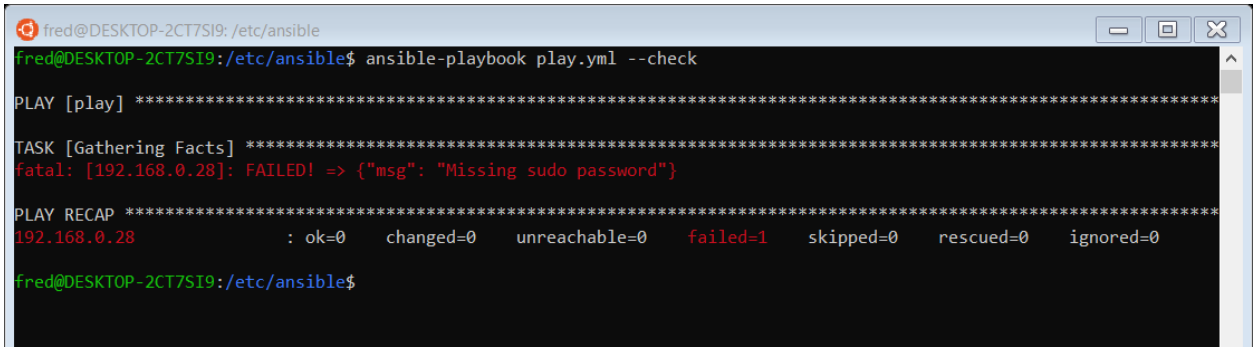
```
fred@DESKTOP-2CT7SI9:~$ ssh ubuntu@75.101.222.125
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-1029-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

  System information as of Fri Jan  8 19:39:12 UTC 2021

  System load:  0.0               Processes:             111
  Usage of /:   16.9% of 7.69GB   Users logged in:       1
  Memory usage: 22%               IPv4 address for eth0: 172.16.0.105
  Swap usage:   0%


1 update can be installed immediately.
0 of these updates are security updates.
To see these additional updates run: apt list --upgradable


The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Fri Jan  8 19:32:14 2021 from 68.38.168.62
ubuntu@ip-172-16-0-105:~$
```

**Now you've successfully authenticated ssh connection between the two machines.**

**Congratulations!!**

## B: When running playbook.

**Main error:** **fatal: [target_name]: FAILED! => {"msg": "Incorrect sudo password"}**

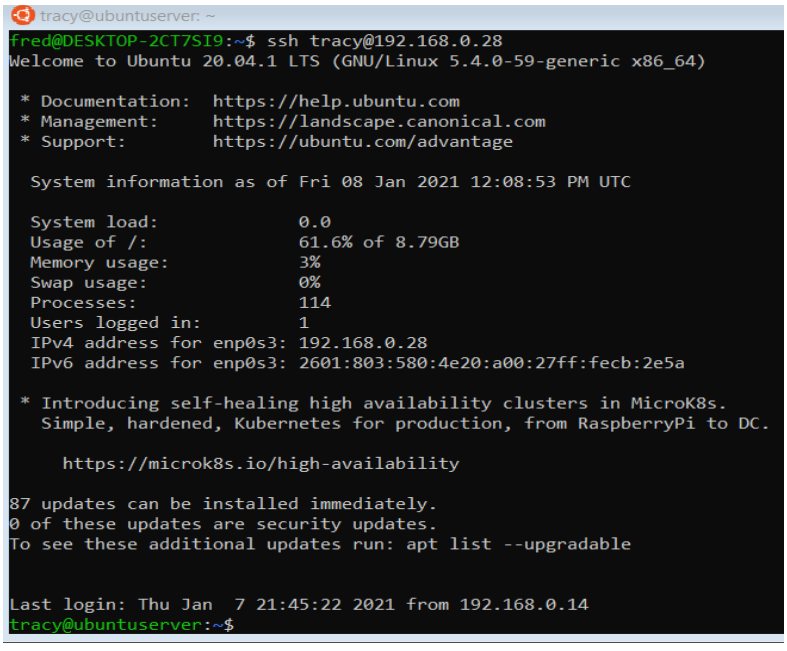



**SOLUTION**

This error appears when ***user*** on the *node (server)* you are trying to deploy your *code* does not have ***root*** privilege.

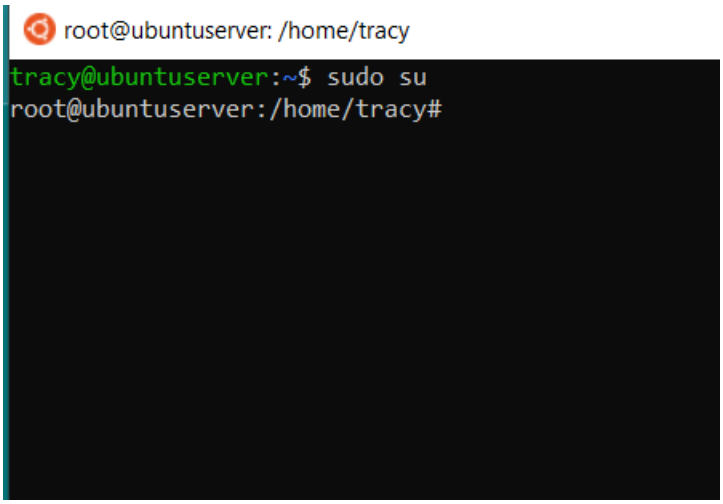
In this case

**Step 1**. ***ssh* into the *node* by *ssh user_name@target***




**Great! you are in the node**

**Step 2.** **While in the *node*, type *sudo su* to gain *root* privilege.**

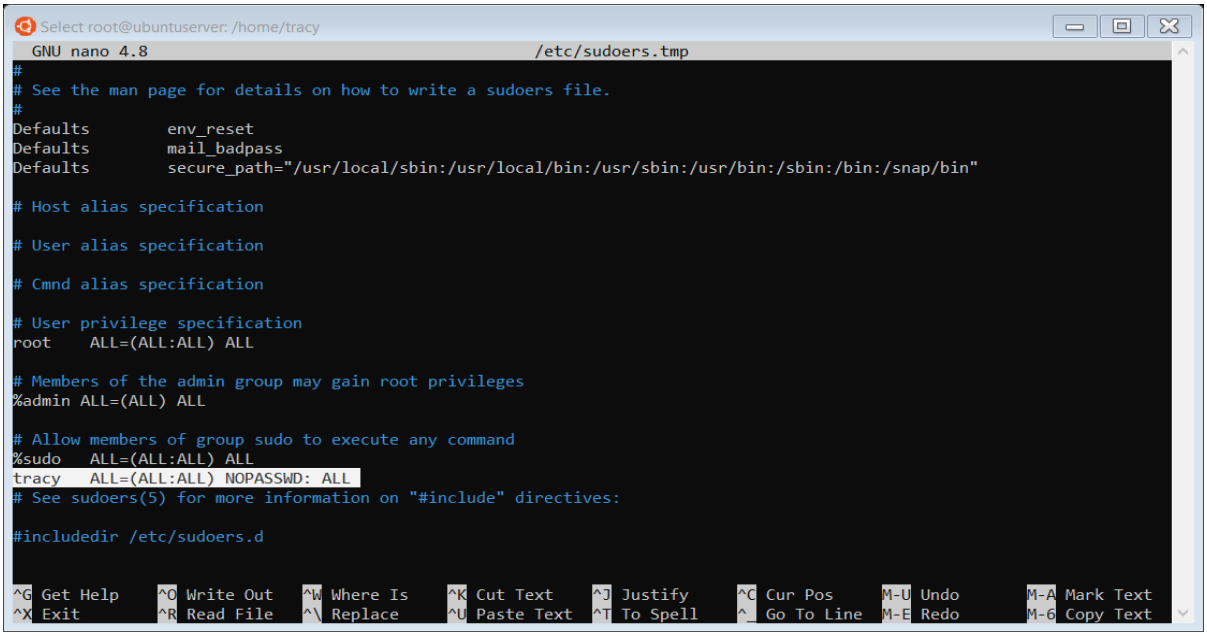



If *"[sudo] password for tracy:"* prompted, put password for user "*tracy*"

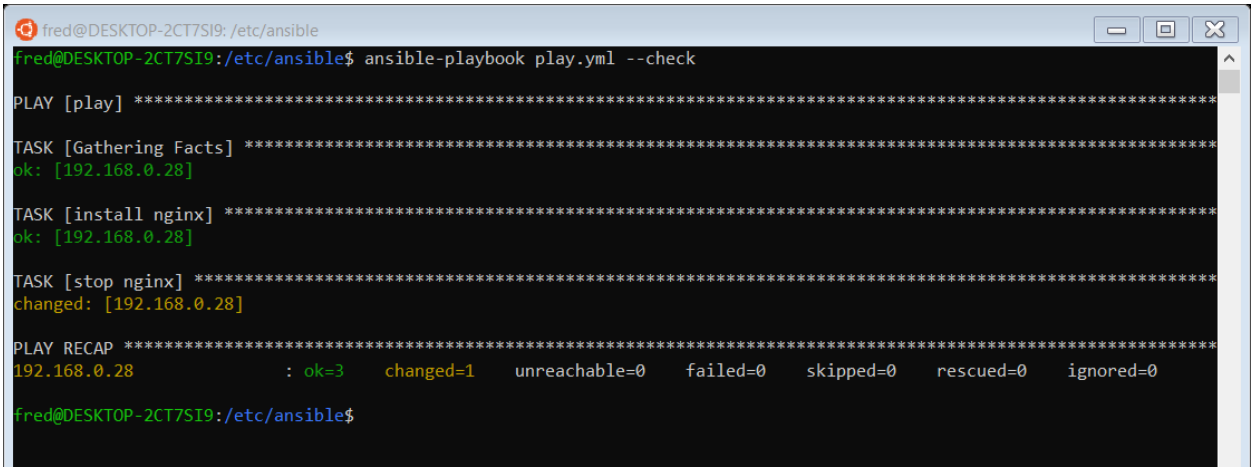
**Step 3. Type "*visudo*" to add *tracy* to *root* privilege.**

Under #Allow members of group sudo to execute any command

**type** "user_name ALL=(ALL:ALL) NOPASSWD: ALL" to give root privilege.



## Step 4. Let’s try to deploy the code again




**Now everything looks great**

**Congrations!!!**