COMMON ERRORS THAT OCCUR WHEN WORKING WITH ANSIBLE AND HOW TO SOLVE THEM

A: 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

```
fred@DESKTOP-2CT7SI9:~$ ssh tracy@192.168.0.28
Welcome to Ubuntu 20.04.1 LTS (GNU/Linux 5.4.0-59-generic x86_64)
* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage
  System information as of Fri 08 Jan 2021 12:08:53 PM UTC
  System load:
                                     0.0
  Usage of /:
                                     61.6% of 8.79GB
  Memory usage:
  Processes:
                                     114
  Users logged in: 1
IPv4 address for enp0s3: 192.168.0.28
IPv6 address for enp0s3: 2601:803:580:4e20:a00:27ff:fecb:2e5a
 * Introducing self-healing high availability clusters in MicroK8s.
Simple, hardened, Kubernetes for production, from RaspberryPi to DC.
      https://microk8s.io/high-availability
87 updates can be installed immediately.
 of these updates are security updates.
To see these additional updates run: apt list --upgradable
ast login: Thu Jan 7 21:45:22 2021 from 192.168.0.14
```

Great! you are in the node

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

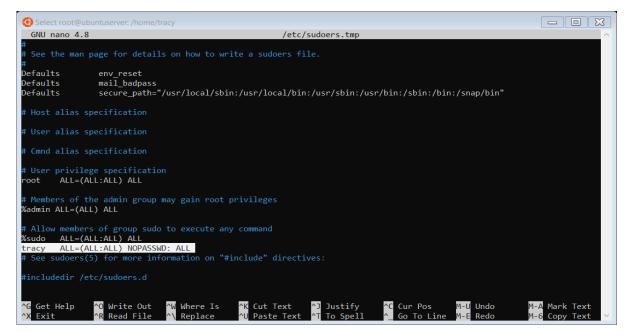


If "[sudo] password for tracy:" prompted, put password for user "tracy"

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!!!

B: when trying to copy the public key to the node.

Command: ssh-copy-id user_name@target

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

```
# Change to yes if you don t trust ~/.ssh/known_hosts for
# HostbasedAuthentication
#IgnoreUserKnownHosts no
# Don't read the user's ~/.rhosts and ~/.shosts files
#IgnoreRhosts yes
# To disable tunneled clear text passwords, change to no here!
PasswordAuthentication yes
#PermitEmptyPasswords no
# Change to yes to enable challenge-response passwords (beware issues with
# some PAM modules and threads)
ChallengeResponseAuthentication no
```

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 configuration
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:
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"

```
red@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
               16.9% of 7.69GB Users logged in:
 Usage of /:
 Memory usage: 22%
                                IPv4 address for eth0: 172.16.0.105
 Swap usage: 0%
 update can be installed immediately.
O 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!!