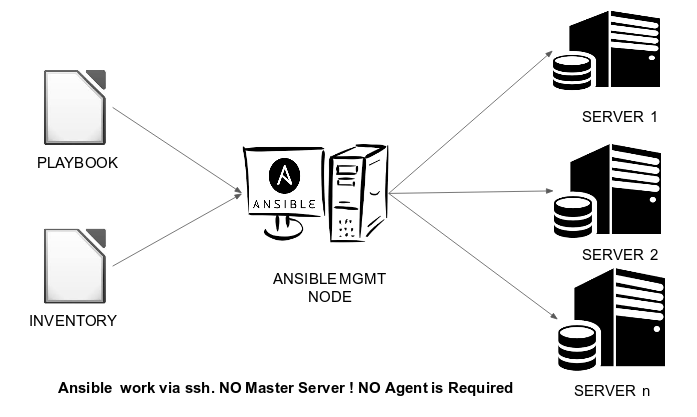
**Ansible:** It is an open-source software provisioning, configuration management, and application-deployment tool enabling infrastructure as code.



Why Ansible?

Ansible is an open source IT automation engine that **automates provisioning, configuration management, application deployment, orchestration,** and many other IT processes.

**Pre-req:**

**Password less authentication must**

2 servers

Create user in both servers

Sudo visudo

Sudo vi /etc/ssh/sshd\_config

Sudo service sshd restart

First switch to your newly created user

Su master

Step2:

cd enter

master@ip-172-31-88-66:~$ ssh-keygen

Generating public/private rsa key pair.

Enter file in which to save the key (/home/master/.ssh/id\_rsa):

Created directory '/home/master/.ssh'.

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in /home/master/.ssh/id\_rsa.

Your public key has been saved in /home/master/.ssh/id\_rsa.pub.

The key fingerprint is:

SHA256:9zeEk0H8PQtVA3EWylYOIjR2qYL3LRRkSpzcbigsOZs master@ip-172-31-88-66

The key's randomart image is:

+---[RSA 2048]----+

| o.=B +o+o\*+|

| .++o+o+ B..|

| o ..o o .=.o |

| + + + = .=...|

| = o S o + o o|

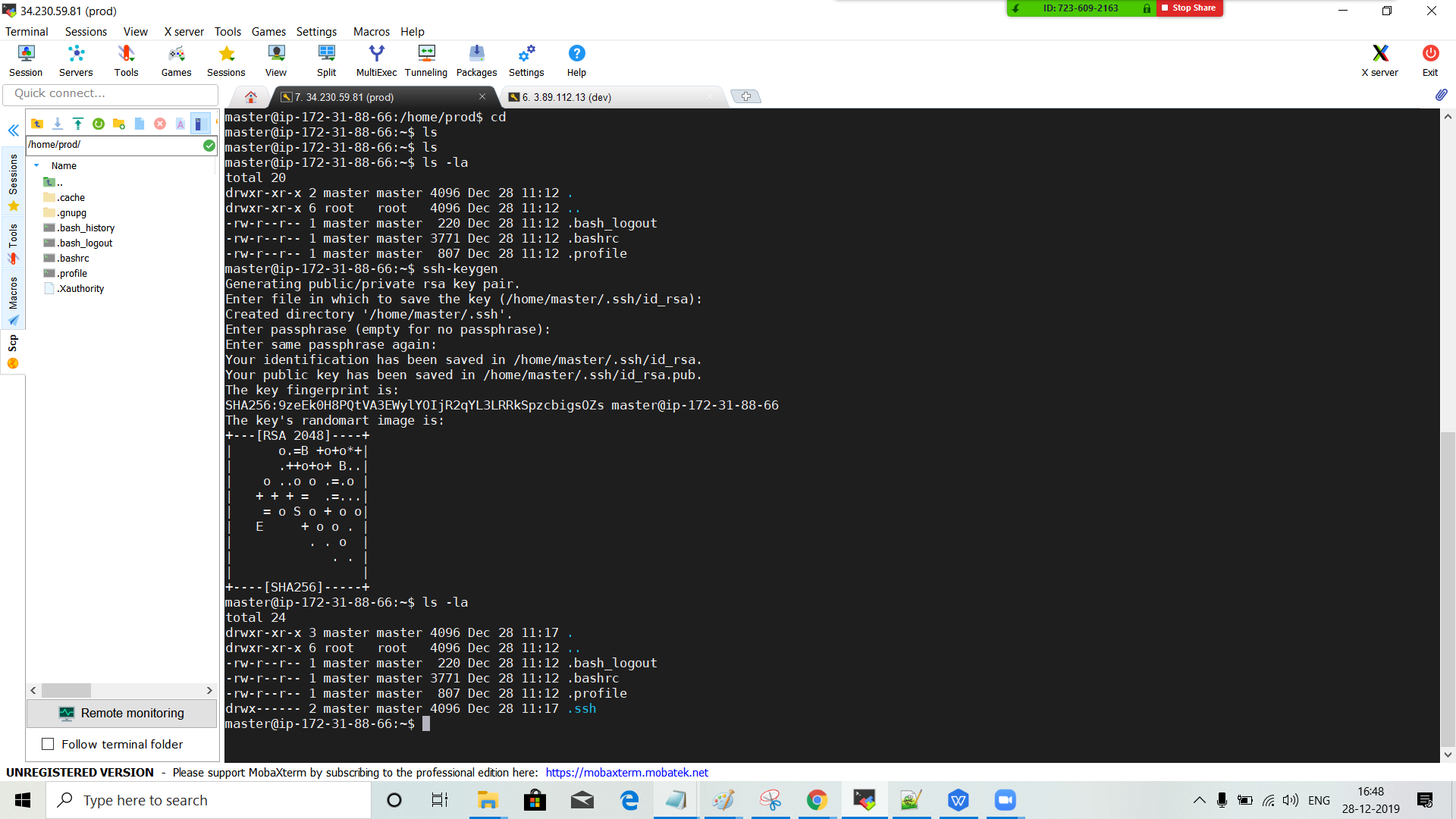
| E + o o . |

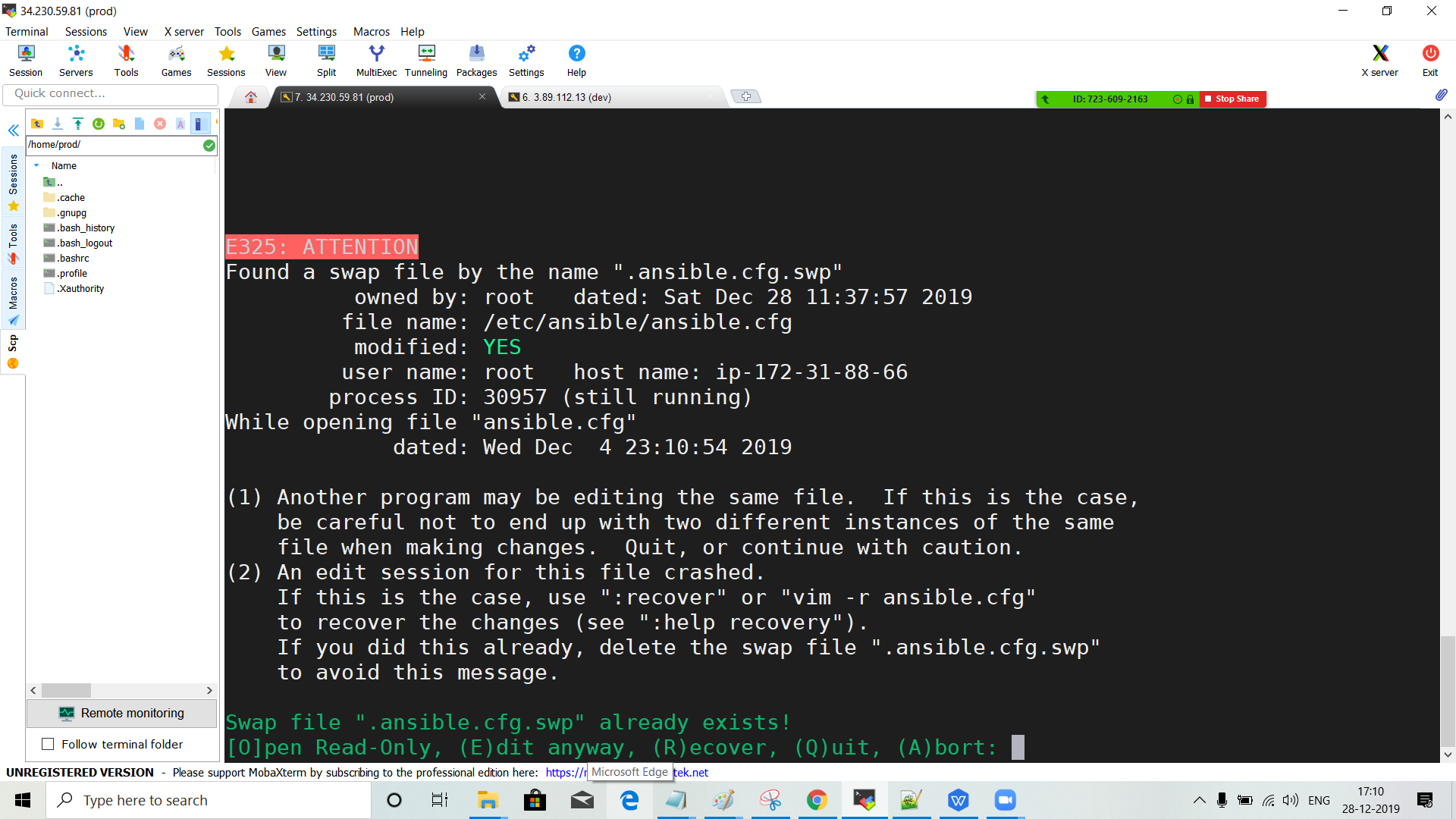
| . . o |

| . . |

| |

+----[SHA256]-----+





shift E

master@ip-172-31-88-66:~$ cd .ssh/

master@ip-172-31-88-66:~/.ssh$ ls

id\_rsa id\_rsa.pub

Cat id\_rsa.pub

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDCjDO5ppv7O078bD1dcix6O+LfwgV8SbrNmXvxkuvK27P48w3aTHVAErM5cbWPGmIvB4dg/fMN9b9MdX1H7Y8nVlxFJjfS3r6h/8P8Tox8sYRyG5PuajCOUrml8VtLkf3qi83mounpmCn4JWDyTQAfyNfTHdoyKH2CChauyHsh4u9u4mmgyYkPEcqnGHMXBx+1uUIRJZNYnyktkPcTF2J7Cx+CaVu+OCmTOAzryrT8/AS11l10zzEl1kjEspC8jWQpmNN6f+CACqJFzaNq7XNbgpHFnCT5a76vQ+HarUUhw42WZsL6a5l6zh2X4Qg0k195vuX2/UEg3LaVjgiy2EsT master@ip-172-31-88-66

Now login to your destination server

Cd

Mkdir .ssh

Cd .ssh

Sudo vi authorized\_keys

Copy paste public key from ur source server

master@ip-172-31-88-66:~/.ssh$ ssh client@3.89.112.13

The authenticity of host '3.89.112.13 (3.89.112.13)' can't be established.

ECDSA key fingerprint is SHA256:nNUcvBmLmTfg7rH/zKyjLEtyClNECx/9syEYpkju5pk.

Are you sure you want to continue connecting (yes/no)?

Exit to come to master server

**Install Ansible:**

**Install and configuration**

<https://www.digitalocean.com/community/tutorials/how-to-install-and-configure-ansible-on-ubuntu-14-04>

<https://www.digitalocean.com/community/tutorials/how-to-install-and-configure-ansible-on-ubuntu-18-04>

**master@ip-172-31-88-66:/etc/ansible**$ ls

ansible.cfg hosts roles

**Make configuration changes**

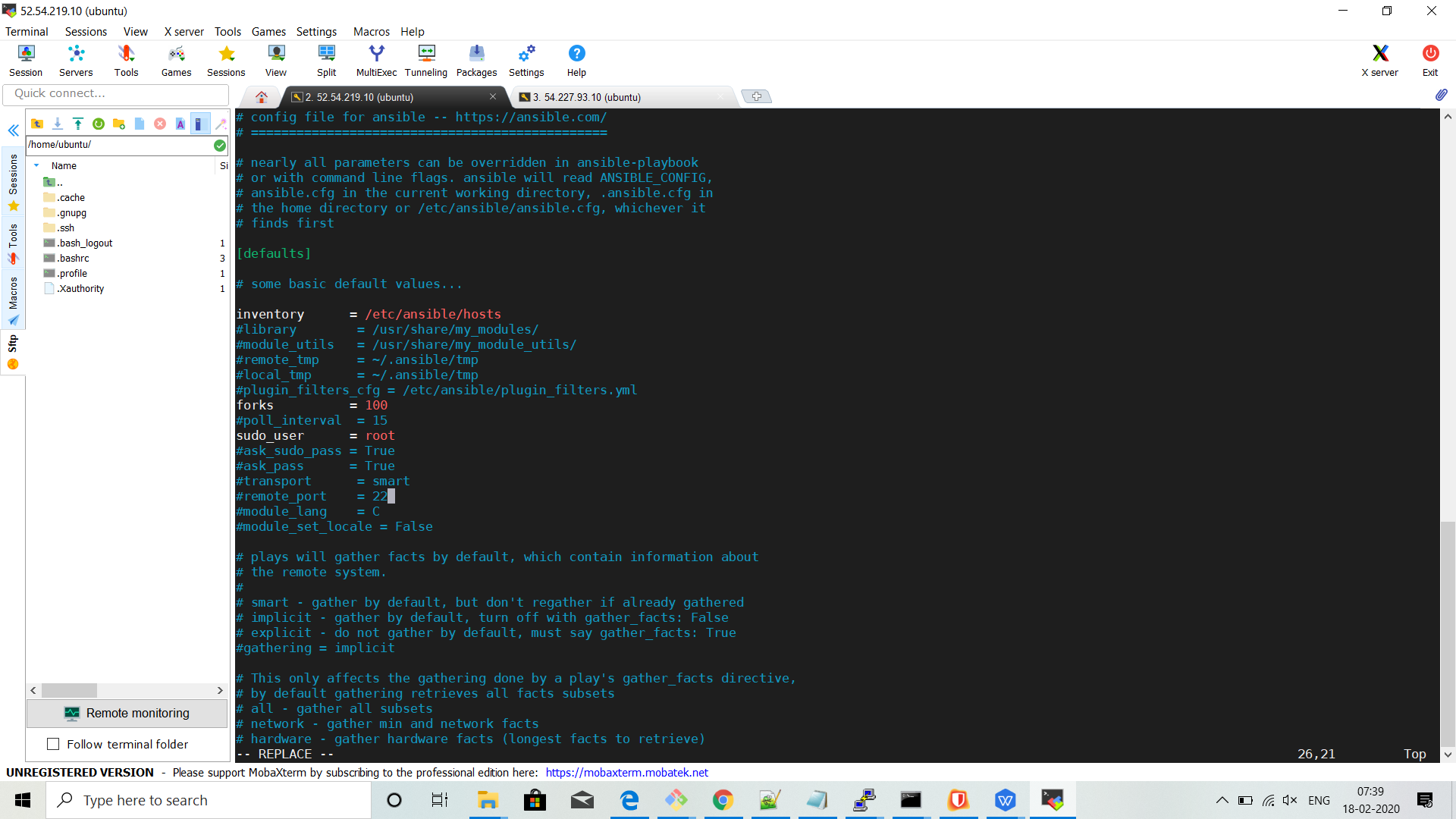
sudo vi /etc/ansible/ansible.cfg

inventory = /etc/ansible/hosts

sudo \_user

forks = 5

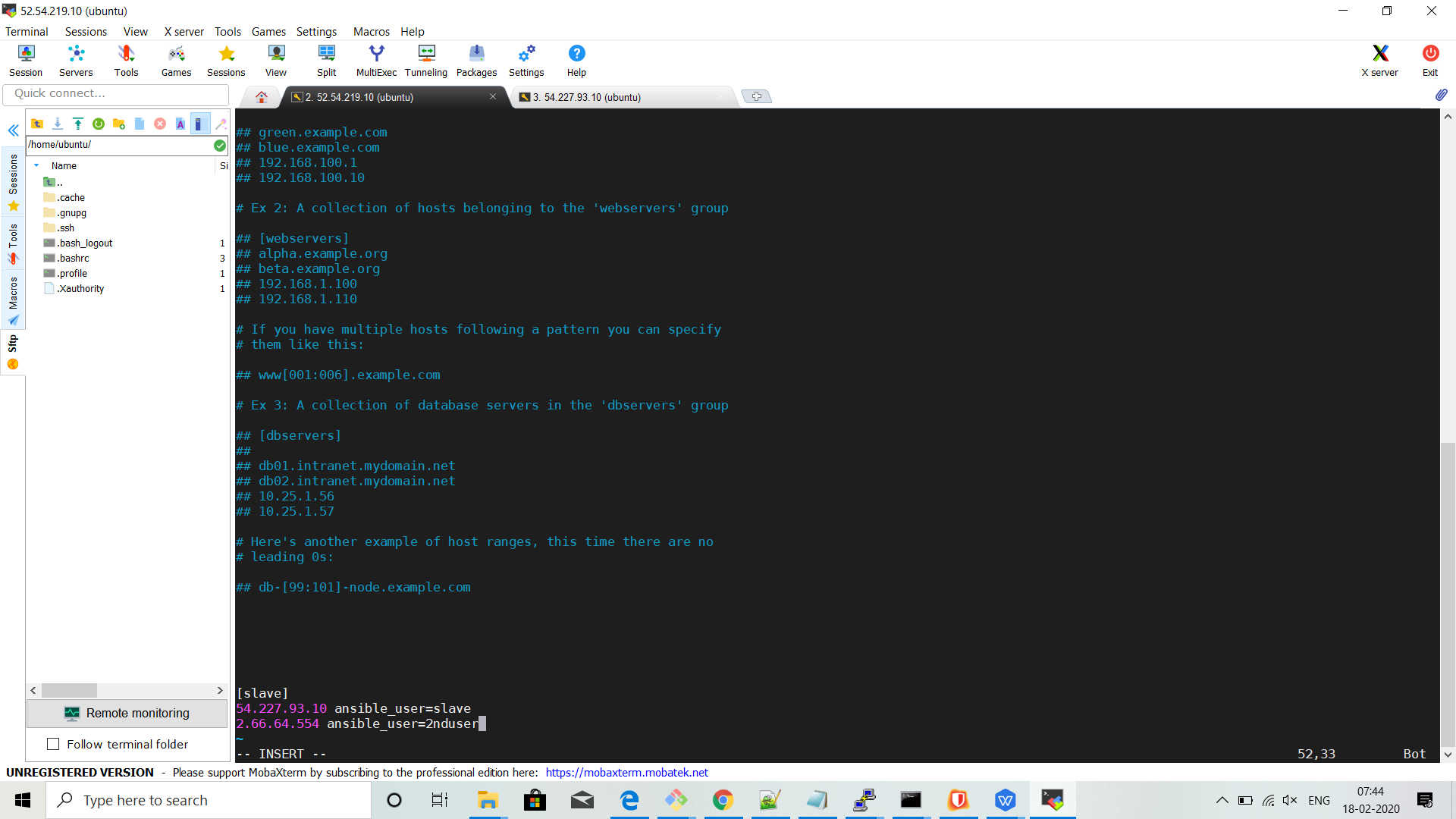
sudo\_user = root



sudo vi /etc/ansible/hosts

[client]

3.89.112.13 ansible\_user=client



**If u are using AWS servers:**

make configuration changes in sudo vi /etc/sssh/sshd\_config

**permit root login**

**password authentication to yes**

sudo systemctl restart sshd

Now create a Passwordless-Authenticatiob b/w source and destination servers

(Note Here test is the Group name - Inside the group no. of client servers are placed)

## **Ping Module**

[Ping](https://gist.github.com/slathia15/450ecc43059ed73c75a74688cbdba35e) is used when we want to check whether the connection with our hosts defined in the inventory file is established or not.

ansible test-servers -m ping -u ec2-user

**ping**changes to **pong** if an SSH connection is established