Ansible

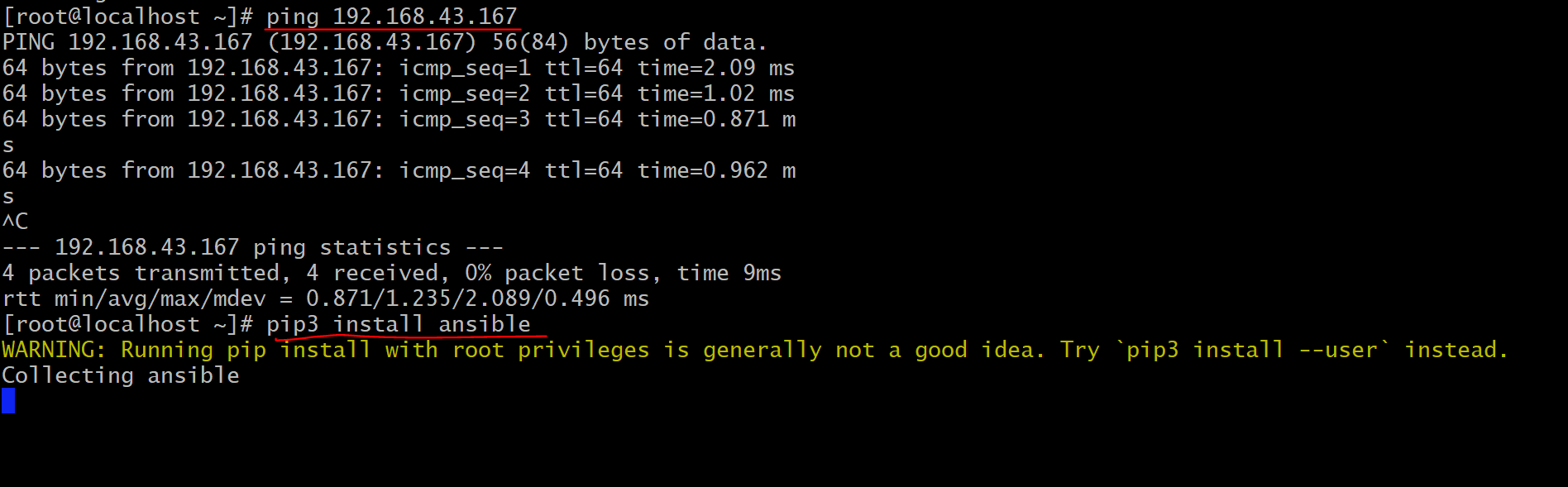
* We know that ansible is built on the top of python language so we can install ansible on any os only iff that system has already python 3 installed .

Cmd to check which version of python is installed in our os : Python -V

Python3 should be there in your os on which you want to install ansible.

* We can install it by the python package manager pip3.

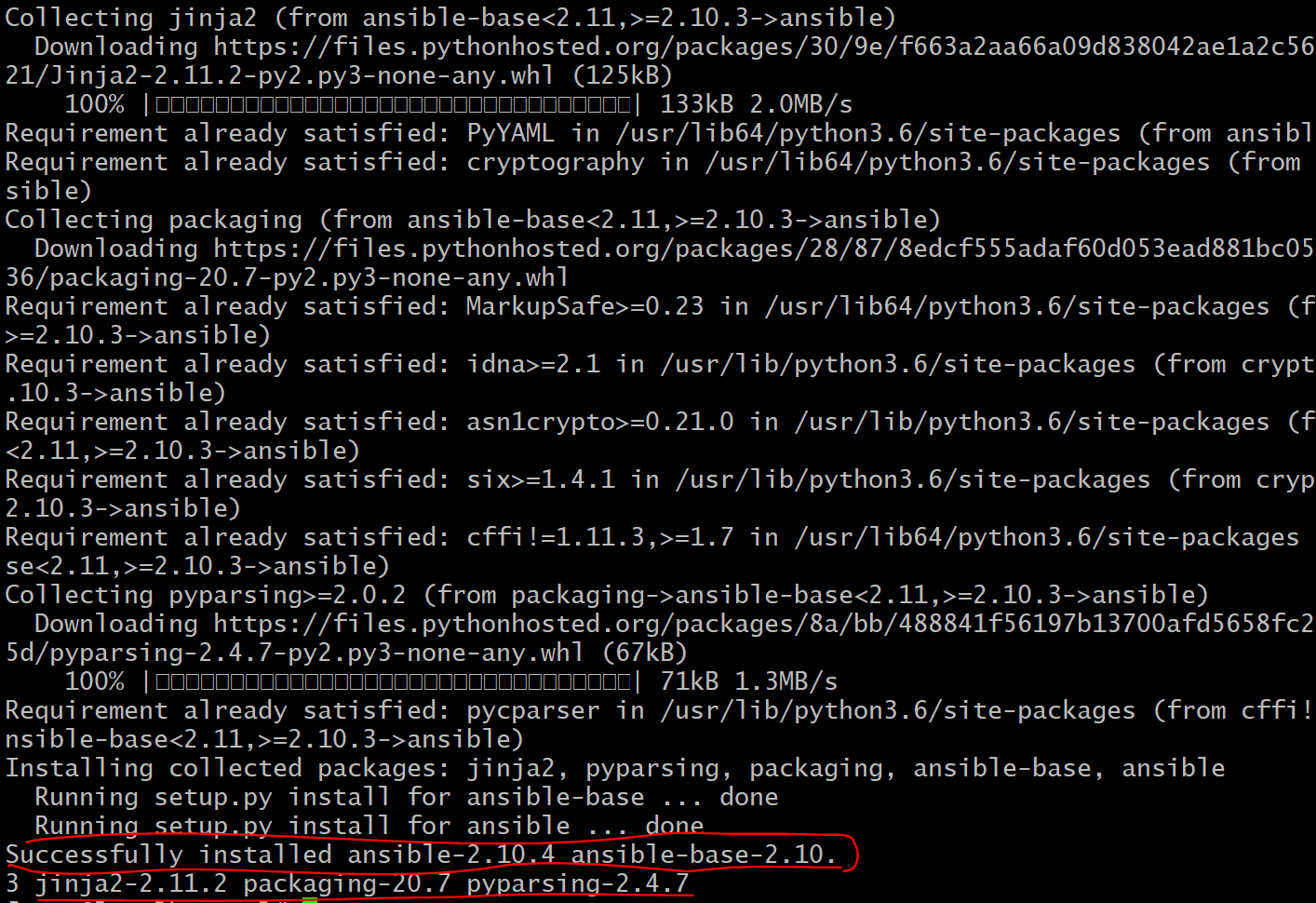
Cmd : pip3 install ansible



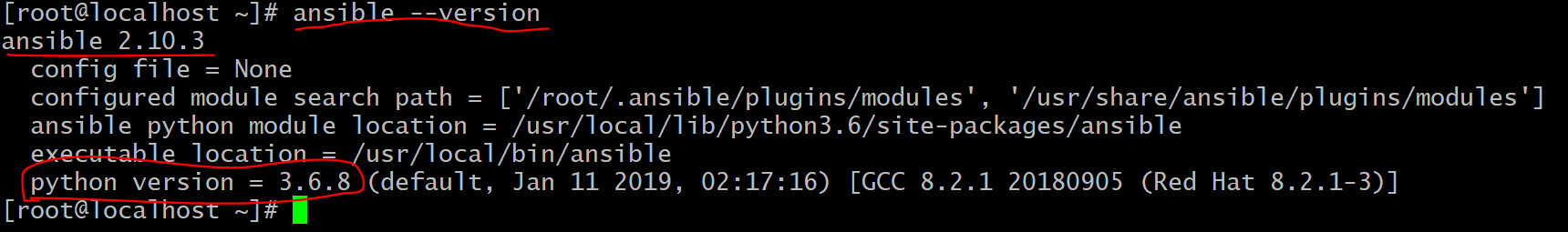
Note : its always good practice to check network connectivity to internet first adter that try to download and install any packages from internet.

We can check network connectivity by using cmd : ping google.com

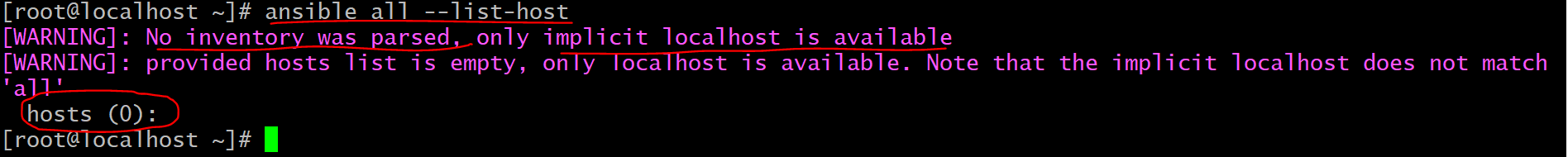
The above cmd took 4-5 minute to install ansible on your system it depends on the internet speed of your network.



From above picture you can see the ansible software is finally installed in my os. You can check ansible is installed in your system or not by using cmd : ansible –version



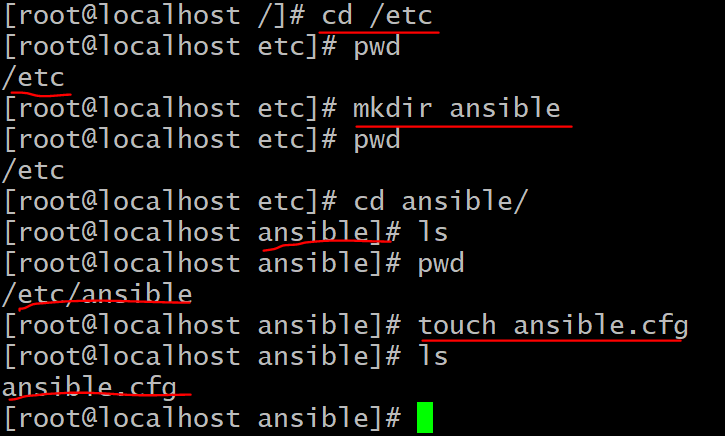
To check how many list host is there in your inventory : ansible all –list-host



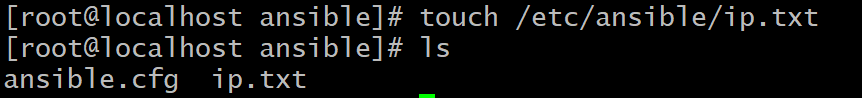
Initaially its shows the that total hosts is zero right now bcz I have not created any inventory file .

So lets first assign inventory file to ansible.

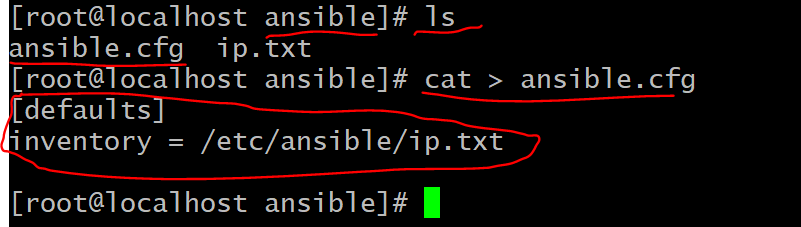
1. First create ‘ansible’ directory inside /etc/.
2. After that create ‘ansible.cfg’ file inside /etc/ansible



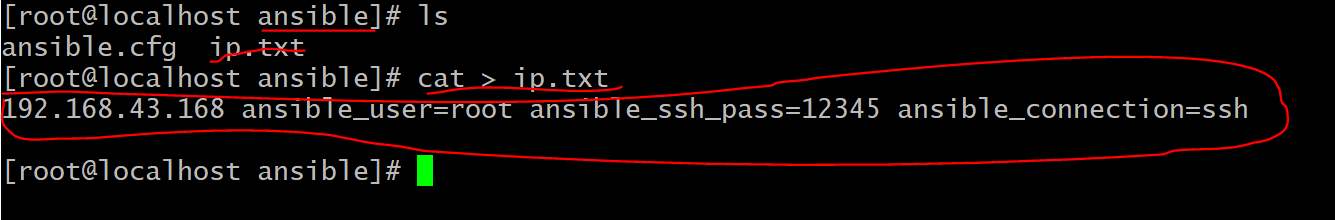
1. Create one inventory file anywhere in your os. Like as, : touch /etc/ansible/ip.txt



1. Now tell your ansible.cfg file that where is your inventory file ( i.e ip.txt ) is located in your os.

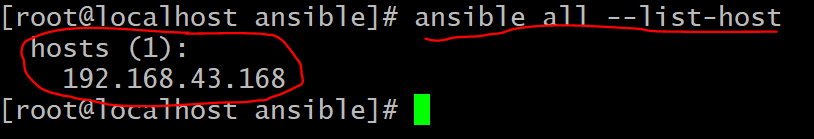


1. Now add hosts to your inventory file ( i.e ip.txt ) as,

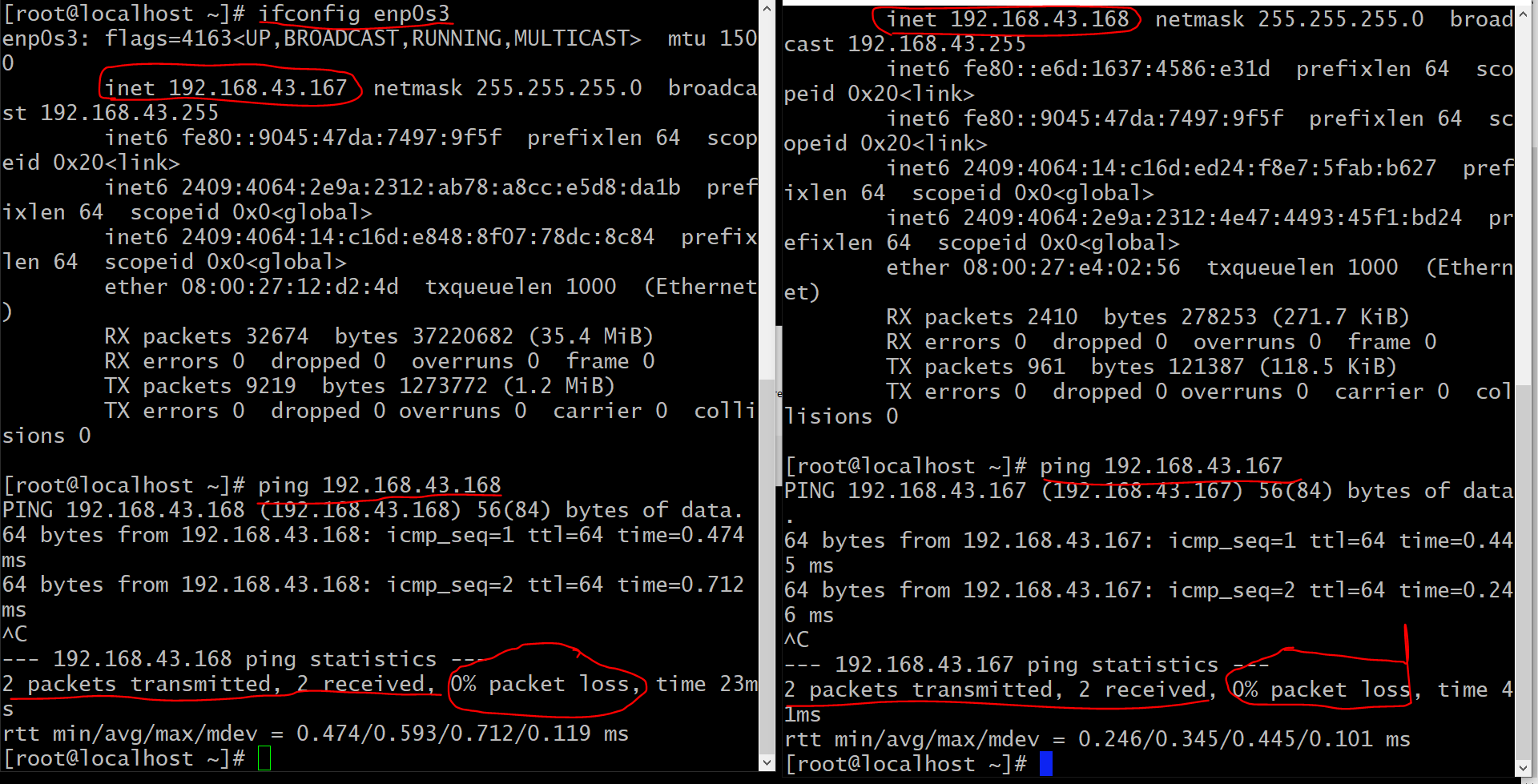


Now finelly your inventory has successfully been created. Now you can check total no. of hosts. It will show 1 rightnow bcz I have added only 1 ip to my inventory file.

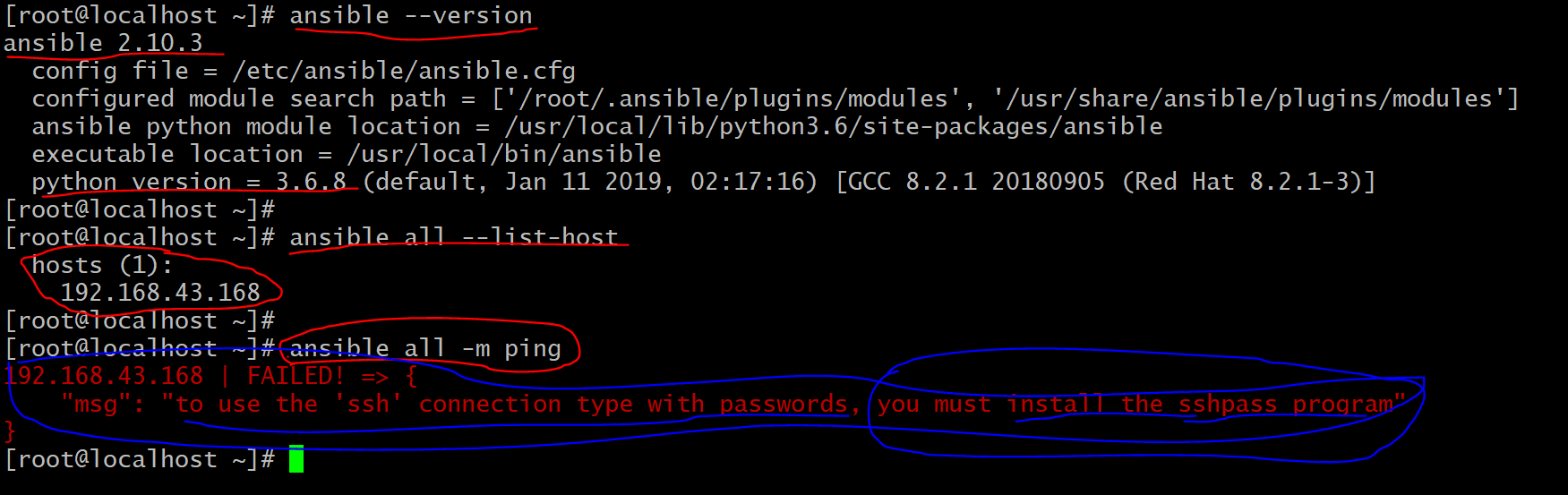
Cmd : ansible all –list-host



Now check the internet connectivity from your local ( ansible ) os to host os and vice varsa manualy by using cmd : ping 192.168.43.168



Now I will show you how to check network connectivity between your ansible os to all your host by using cmd : ansible all -m ping



After execution of the above cmd . they show you some error. And error says that to use ‘ssh connection type with password then we have to install ‘sshpass program’.

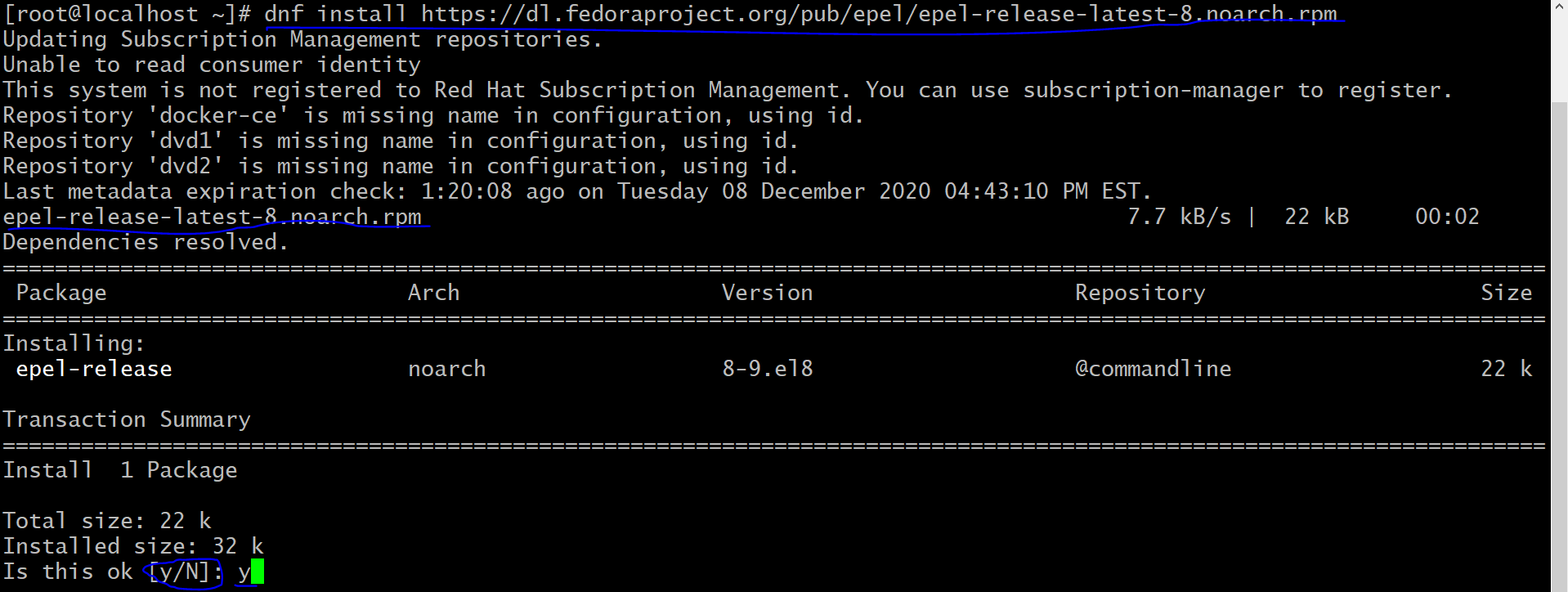
So now we have to install sshpass in our ansible os.

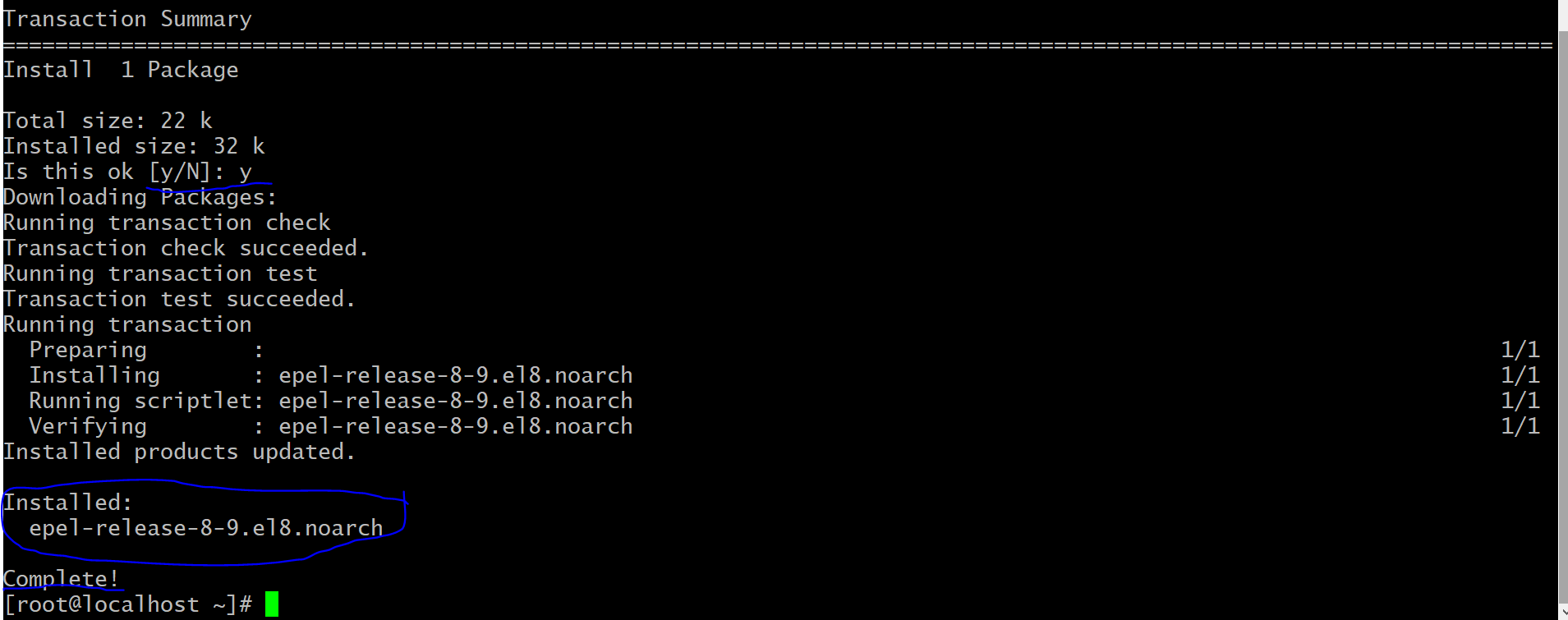
For installing sshpass program , first we have to configure sshpass program repo for yum then only we can install any program in our os. For this you can configure repo for ‘ epel ‘ its an yum repo which provides almost all the software of linux and best part of this repo is that its also provie us ‘sshpass’ program.

Link of article : <https://linuxconfig.org/redhat-8-epel-install-guide>

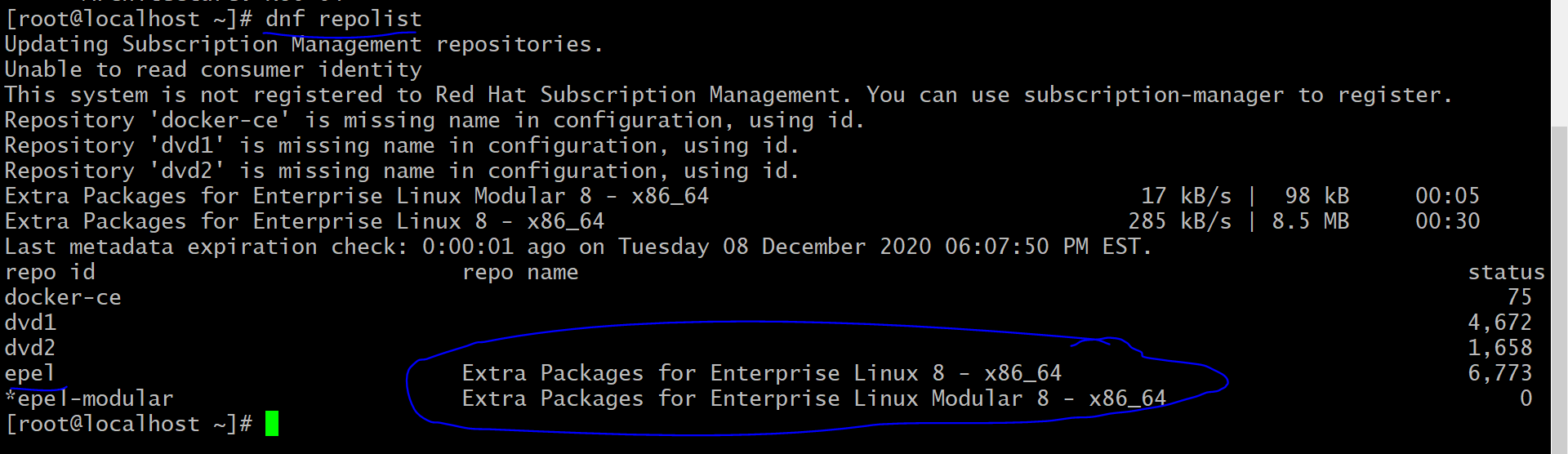
Cmd for configure yum / dnf repo for epel :

Sudo dnf install <https://dl.fedoraproject.org/pub/epel/epel-release-latest-8.noarch.rpm>



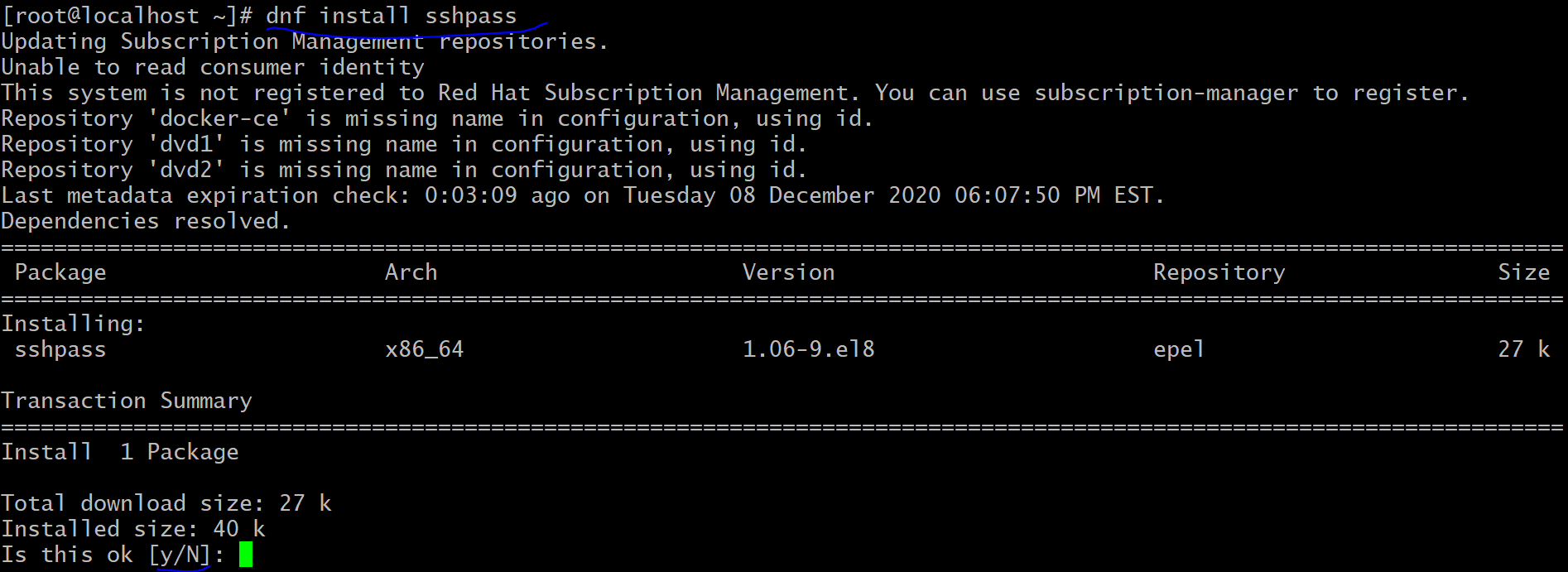


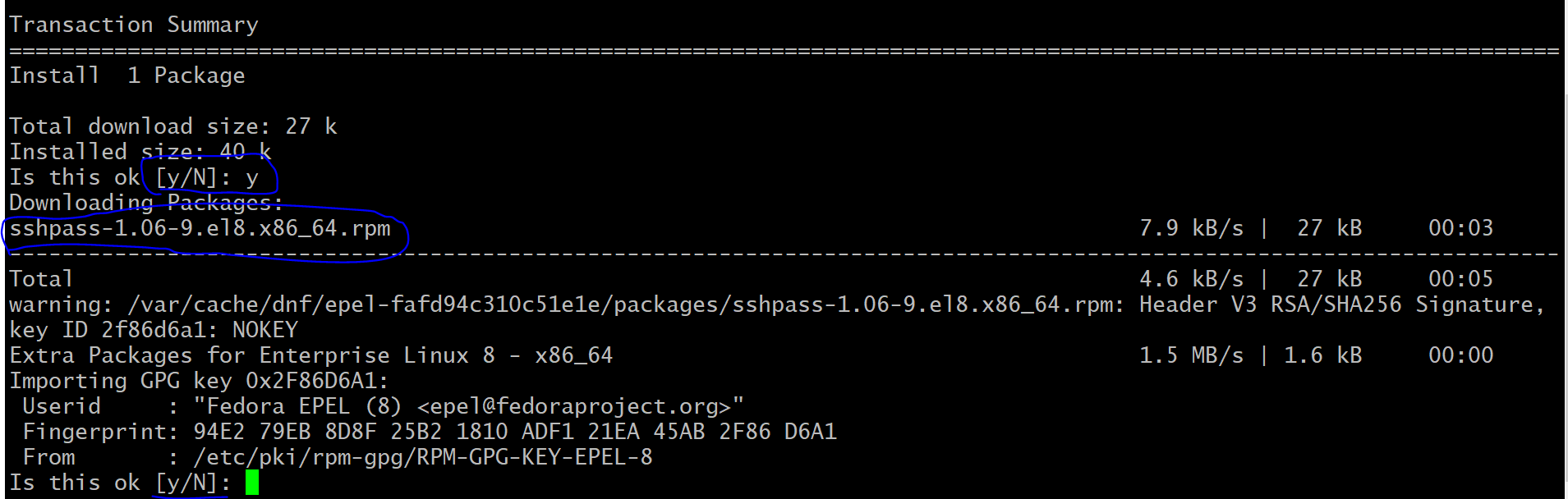
You can check wather epel repo is created in your os or not by using the following command : dnf repolist or yum repolist

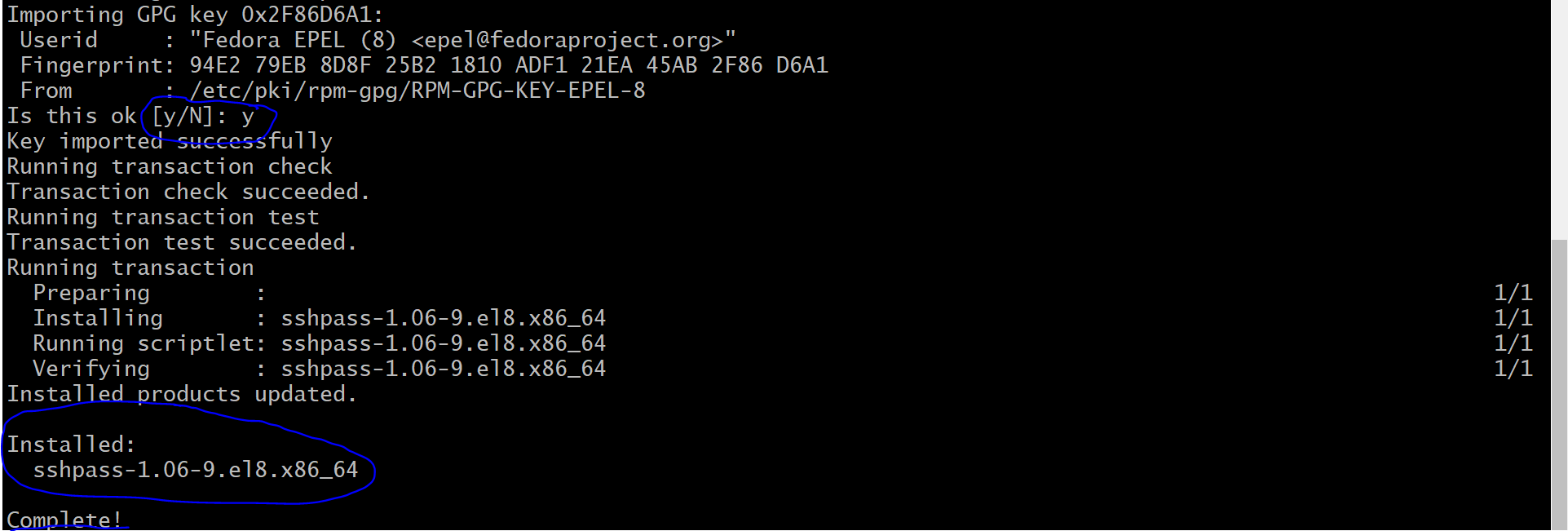


Now we can install ‘sshpass program ‘ by using cmd : dnf install sshpass or

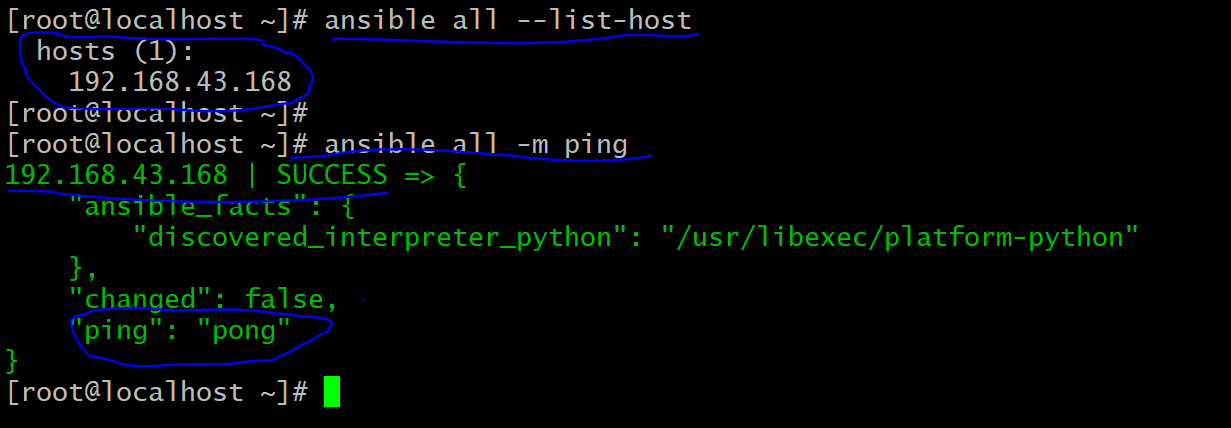
Yum install sshpass







Now you can ping to all of your host by using cmd : ansible all -m ping

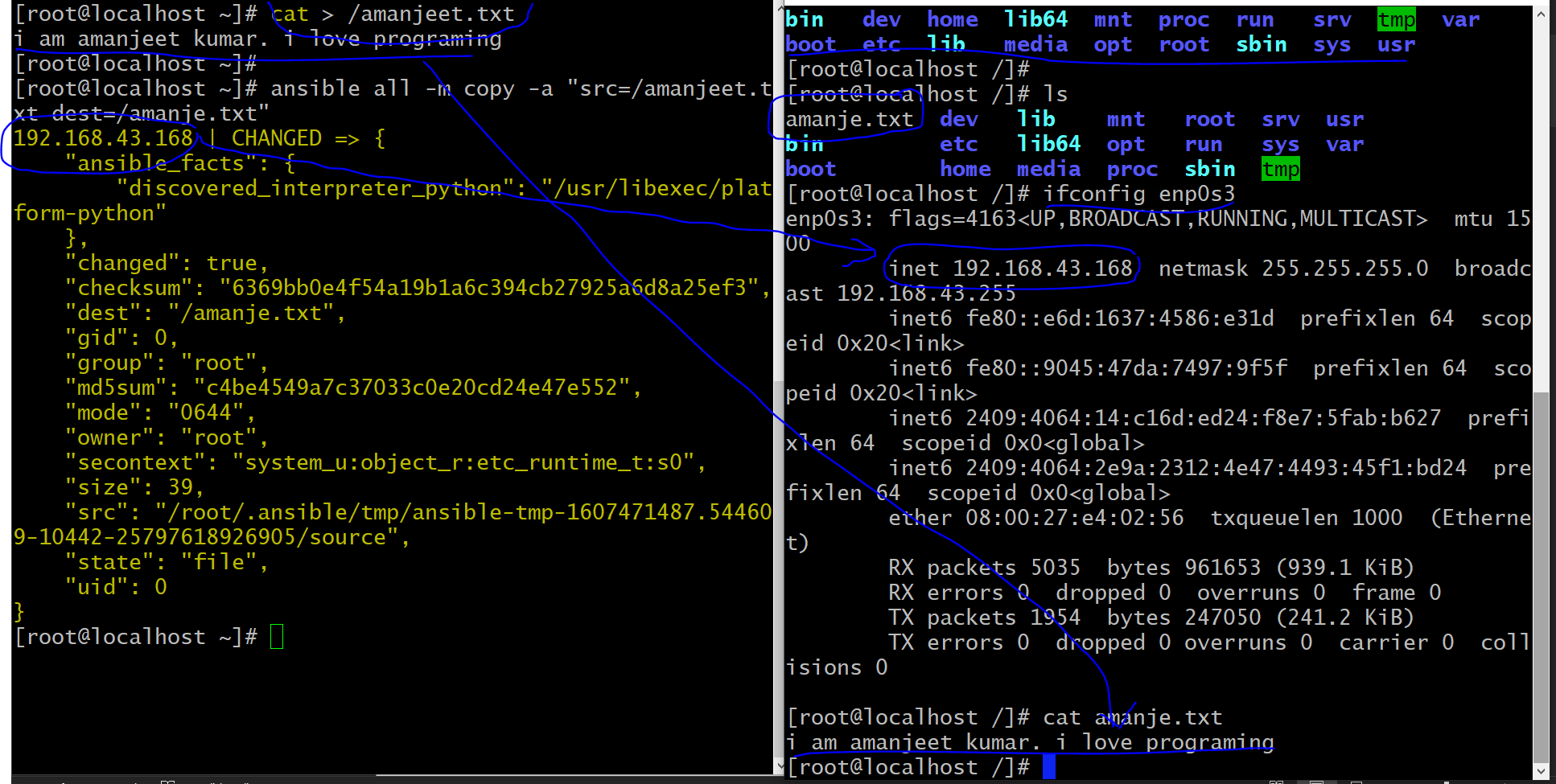


Now you are ready to do automation in your target host so start automatinfg the thing from very basic.

Task.1. copy some file and folder from ansible hosts to target host.

Sol : vi /amanjeet.txt

adhoc cmd : ansible all -m copy “src=/amanjeet.txt dest=/aman.txt”



2. By ansible playbook :

