

Install ansible:

Sudo apt install ansible

```
ahmed@ahmed-VMware-Virtual-Platform:~$ sudo apt install ansible
[sudo] password for ahmed:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  ansible-core python3-argcomplete python3-dnspython python3-jmespath
  python3-kerberos python3-libcloud python3-lockfile python3-ntlm-auth
  python3-packaging python3-passlib python3-requests-ntlm python3-resolvelib
  python3-selinux python3-simplejson python3-winrm python3-xlrd python3-xlsxwriter
Suggested packages:
  sshpass python3-trio python3-aiodns python3-h2 python3-httpx
  python3-httpcore python-lockfile-doc
The following NEW packages will be installed:
  ansible ansible-core python3-argcomplete python3-dnspython python3-jmespath
  python3-kerberos python3-libcloud python3-lockfile python3-ntlm-auth
  python3-packaging python3-passlib python3-requests-ntlm python3-resolvelib
  python3-selinux python3-simplejson python3-winrm python3-xlrd python3-xlsxwriter
0 upgraded, 17 newly installed, 0 to remove and 199 not upgraded.
Need to get 19.6 MB of archives.
After this operation, 315 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://eg.archive.ubuntu.com/ubuntu noble/main amd64 python3-packaging al
```

generated&Copy-key-id:

-ssh-keygen -t rsa -b 4096

-ssh-copy-id -i ~/.ssh/id_rsa.pub ahmed@192.168.216.137

```
ahmed@ahmed-VMware-Virtual-Platform:~/Downloads$ ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ahmed/.ssh/id_rsa):
/home/ahmed/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ahmed/.ssh/id_rsa
Your public key has been saved in /home/ahmed/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:fAJH78GT7Rh8FLKy/7C6I40oH4yw5LznLCzbQZ16GZQ ahmed@ahmed-VMware-Virtual-Platform
The key's randomart image is:
---[RSA 4096]---+
  . . O. |
  ..+ * |
  .Eo X o |
  o+.+ B |
  . . +S + . |
  .+ o o O+ |
  o.o+ O o o |
  + o.O = . + |
  .=. . o oo+. . |
  ...[SHA256]-----
```

```

ahmed@ahmed-VMware-Virtual-Platform:~/Downloads$ ssh-copy-id -i ~/.ssh/id_rsa.pub ahmed@192.168.216.137
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ahmed/.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
ahmed@192.168.216.137's password:

Number of key(s) added: 1

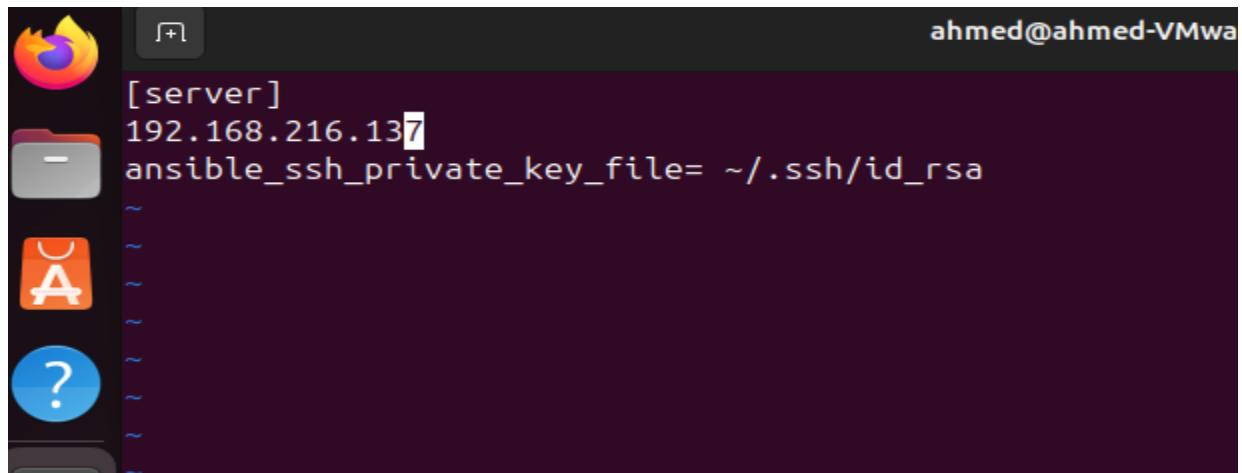
Now try logging into the machine, with: "ssh 'ahmed@192.168.216.137'"
and check to make sure that only the key(s) you wanted were added.

```

Inventory:

Put IPS server you want to ansible connect

Definition path private key



```

ahmed@ahmed-VMwa
[server]
192.168.216.137
ansible_ssh_private_key_file= ~/.ssh/id_rsa
~
~
~
~
~
~
~
~

```

Runansible:ad-hoc

Ansible -i inventory servername -a "df -h"

Definition storage & mount partition

```

ahmed@ahmed-VMware-Virtual-Platform:~/Downloads$ ansible -i inventory server -a "df -h"
[WARNING]: * Failed to parse /home/ahmed/Downloads/inventory with yaml plugin: We were unable to read either as JSON
nor YAML, these are the errors we got from each: JSON: Expecting value: line 1 column 2 (char 1) Syntax Error while
loading YAML. did not find expected <document start> The error appears to be in '/home/ahmed/Downloads/inventory':
line 2, column 1, but may be elsewhere in the file depending on the exact syntax problem. The offending line appears
to be: [server] 192.168.216.137 ^ here
[WARNING]: * Failed to parse /home/ahmed/Downloads/inventory with ini plugin: /home/ahmed/Downloads/inventory:3:
Expected key=value host variable assignment, got: ~/.ssh/id_rsa
[WARNING]: Unable to parse /home/ahmed/Downloads/inventory as an inventory source
[WARNING]: No inventory was parsed, only implicit localhost is available
[WARNING]: provided hosts list is empty, only localhost is available. Note that the implicit localhost does not match
'all'
192.168.216.137 | CHANGED | rc=0 >>

```

Filesystem	Size	Used	Avail	Use%	Mounted on
tmpfs	387M	2.0M	385M	1%	/run
/dev/sda2	20G	9.7G	8.9G	53%	/
tmpfs	1.9G	0	1.9G	0%	/dev/shm
tmpfs	5.0M	8.0K	5.0M	1%	/run/lock
tmpfs	387M	132K	387M	1%	/run/user/1000
/dev/sr0	5.7G	5.7G	0	100%	/media/ahmed/Ubuntu 24.04 LTS amd64

```

ahmed@ahmed-VMware-Virtual-Platform:~/Downloads$

```