Chapter 2: Setting Up of the Lab Environment and Course Resource

```
1. Installing Docker
```

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1. Installing Docker

1-1. Docker Overview

- · Container offering that provides OS-level virtualization
- · Containers are a convenient means of bundling software, libraries and configuration data, into a consumable format
- Available as a convenient "Docker Desktop" on both Mac OS X and Windows
- · Also, easily installed on Linux
- · Lab, makes use of Docker and Docker Compose

1-2. Installing Docker

Docker Desktop - Docker

Our Docker Subscription Service Agreement includes a change to the terms for Docker Desktop It remains free for small businesses (fewer than 250 employees AND less than \$10 million in annual revenue), personal use, education, and non-commercial open source projects.





1-2-1. Docker Test

```
$ docker run -it --rm ubuntu bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
405f018f9d1d: Pull complete
Digest: sha256:b6b83d3c331794420340093eb706a6f152d9c1fa51b262d9bf34594887c2c7ac
Status: Downloaded newer image for ubuntu:latest
root@62534192cdac:/# uname -a
Linux 62534192cdac 5.10.104-linuxkit #1 SMP Thu Mar 17 17:08:06 UTC 2022 x86_64 x86_64 x86_64 GNU/Linux
root@62534192cdac:/# cat /etc/os-release
PRETTY_NAME="Ubuntu 22.04 LTS"
NAME="Ubuntu"
VERSION_ID="22.04"
VERSION="22.04 LTS (Jammy Jellyfish)"
VERSION_CODENAME=jammy
ID_LIKE=debian
HOME_URL="https://www.ubuntu.com/"
SUPPORT URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
root@62534192cdac:/# exit
```

1-2-2. Course Lab Repository

https://github.com/spurin/diveintoansible-lab

2. Installing the Ansible Lab

```
$ git clone https://github.com/spurin/diveintoansible-lab.git
$ cd diveintoansible-lab
$ docker-compose up
```

ttypd

- http://localhost:1000
- Ansible Terminal : id/pwd ⇒ ansible/password

```
# docker-compose kill
$ ctrl + C
# docker remove
$ docker-compose rm
```

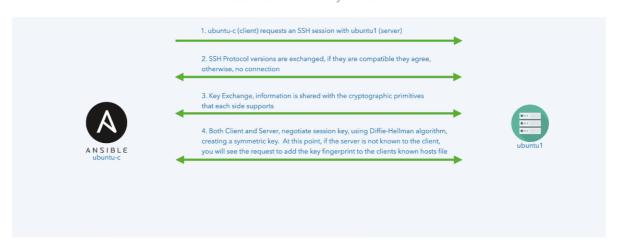
Google Cloud Shell

• https://diveinto.com/p/playground

3. Configuring Secure Shell (SSH) Connectivity between Hosts

3-1. SSH fingerprint

SSH Connectivity Overview



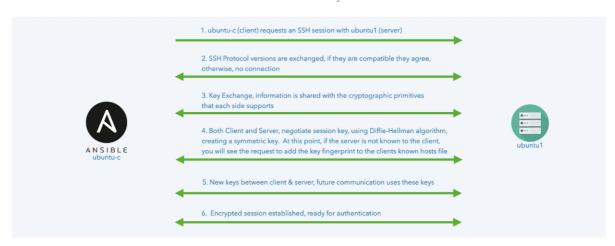
```
ubuntu-c login: ansible
Password:
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.10.104-linuxkit x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
Last login: Fri Jun 24 08:01:30 UTC 2022 on pts/0
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ansible@ubuntu-c:~$ ssh ubuntu1
The authenticity of host 'ubuntu1 (172.19.0.3)' can't be established.
ECDSA key fingerprint is SHA256:cLX10NxhgqvVI4kGIBw04MZ6hZx2BCrn4/VwMD4TmNs.
```

```
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ubuntu1,172.19.0.3' (ECDSA) to the list of known hosts.
ansible@ubuntu1's password:
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ansible@ubuntu1:~$
```

SSH Connectivity Overview



$known_hosts$ 첫번째 라인과 ubuntu1 호스트의 fingerprint 가 일치함을 알 수 있다.

```
ansible@ubuntu-c:-/.ssh$ ping ubuntu1
PING ubuntu1 (172.19.0.3) 56(84) bytes of data.
64 bytes from ubuntu1.diveinto.io (172.19.0.3): icmp_seq=1 ttl=64 time=0.076 ms
64 bytes from ubuntu1.diveinto.io (172.19.0.3): icmp_seq=2 ttl=64 time=0.157 ms
64 bytes from ubuntu1.diveinto.io (172.19.0.3): icmp_seq=3 ttl=64 time=0.099 ms
^C
--- ubuntu1 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2045ms
rtt min/avg/max/mdev = 0.076/0.110/0.157/0.034 ms
```

ubuntu1 호스트의 IP를 알아내기 위해 ping 을 이용한다.

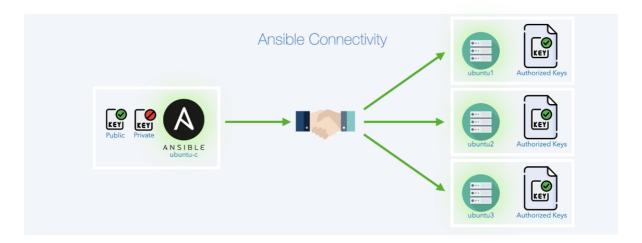
```
ansible@ubuntu-c:~/.ssh$ cat known hosts
|1|M9N+4etrWXxkES5dMOaYwL31ovI=|MEb5WP6H5Mhjn3Heo9YuuCAvf90= ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAAABBB
ansible@ubuntu-c:~/.ssh$ ssh-keygen -H -F ubuntu1
# Host ubuntu1 found: line 1
|1|/wvptH2eEnkcX0kG3VcBLI00za0=|lkEh2RwnRojcVdXzX7cZ2mR0Wx8= ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAAABBB
ansible@ubuntu-c:~/.ssh$ ping ubunt1
ping: ubunt1: Name or service not known
ansible@ubuntu-c:~/.ssh$ ping ubuntu1
PING ubuntu1 (172.19.0.3) 56(84) bytes of data.
64 bytes from ubuntu1.diveinto.io (172.19.0.3): icmp_seq=1 ttl=64 time=0.076 ms
64 bytes from ubuntu1.diveinto.io (172.19.0.3): icmp_seq=2 ttl=64 time=0.157 ms
64 bytes from ubuntu1.diveinto.io (172.19.0.3): icmp_seq=3 ttl=64 time=0.099 ms
--- ubuntu1 ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2045ms
rtt min/avg/max/mdev = 0.076/0.110/0.157/0.034 ms
```

```
ansible@ubuntu-c:-/.ssh$ ^C
ansible@ubuntu-c:-/.ssh$ ssh-keygen -H -F 172.19.0.3
# Host 172.19.0.3 found: line 2
|1|M9N+4etrWXxkES5dMOaYwL31ovI=|MEb5WP6H5Mhjn3Heo9YuuCAvf90= ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBB
ansible@ubuntu-c:-/.ssh$
```

호스트이름이 아닌 IP로 fingerprint를 확인하면 known hosts의 두 번째 라인과 일치함을 알 수 있다.

known_host 파일을 삭제하면 fingerprint를 재 생성한다.

3-2. 패스워드 없이 ssh 접속



- 녹색키 : public key
- 적색키 : private key
- public key는 모든 호스트가 공유
- private key는 클라이언트만 가지고 있음

```
ubuntu-c login: ansible
Password:
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.10.104-linuxkit x86_64)
 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
 * Support:
Last login: Fri Jun 24 08:02:20 UTC 2022 on pts/0
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
ansible@ubuntu-c:~$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ansible/.ssh/id_rsa): <엔터>
Enter passphrase (empty for no passphrase): <엔터>
Enter same passphrase again: <엔터>
Your identification has been saved in \hfill \mbox{home/ansible/.ssh/id\_rsa}
Your public key has been saved in \hfill \mbox{home/ansible/.ssh/id\_rsa.pub}
The key fingerprint is:
SHA256:WiWlM7HktWGU4i/rVwjK1/XkrTFG/timByEforpF2Q4 ansible@ubuntu-c
The key's randomart image is:
+---[RSA 3072]----+
        0.*.
        o.B.o
        .B.o
         0= 0+ =
      . .S+E+.X +
       000.=0. X .|
       .. +.... 0 |
        o.. o =|
         .00
+----[SHA256]----+
ansible@ubuntu-c:~$
```

public key와 private key 확인

public key : id_rsa.pubprivate key : id_rsa

```
ansible@ubuntu-c:~$ cat .ssh/id_rsa.pub
ssh-rsa\ AAAAB3NzaC1yc2EAAAADAQABAAABgQDiVxSFb3KyKZ7koWKcupeTmeredUtvZrLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZj0QziDSVkip8V1CNDU49+ia5bDUWLnhmPiGUVArLwf0Y90CRk6Ka7sSkMunWgwhZuQZiDSVkip8V1CNDU49+ia5bDU49+ia5bDU49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5bDu49+ia5b
ansible@ubuntu-c:~$ cat .ssh/id_rsa
    ----BEGIN OPENSSH PRIVATE KEY---
b3BlbnNzaC1rZXktdjEAAAAABG5vbmUAAAAEbm9uZQAAAAAAAAABAAABlwAAAAdzc2gtcn
NhAAAAAwEAAQAAAYEA4lcUhW9ysime5KFinLqXk5nq3nVLb2ay8H9GPTgkZ0imu7EpDLp1
oMIWbkGY9EM4a0lZIafFdOiO10PfomuWw1Fi54Zi4hlAkRaa/pBZcU01IrEdKvkbV2nT7M
hmExCAJ9Lnr0mR0FrgmNb1c49BgA/EeuCJxeDx4CFA0QlMyCqCxrErkofZaRXNgtYj7MX9
/7+u2XXLlyOqnQtMts1rqRTk9KwrGxpPDrBgY30T5C/TgyEY1DWIDG5h18AB7seh3jen4s
 sMq2/NWvGPTxeTvBWv01X7SC0kNxyx4Ll7/bjmn1JjYlSFRDS3T2fek90QcfyDLbfAghqV
vMy4gT78qvEYFiOnlK1IyTE4lMCZG4teBaRAzfFyYdDr5VD9chfp+P0kt+wb4//X1kdQeC
fr7Fq/gfT99c6VzRp2EcZlDLrFyLFGSZmKkXft18LktuycC4xSHrYc+UTKJfp9WhgKNrLvArger framework and the property of th
T3oEoW1UW5J1stlwEjRrk0pokJcegqaqs+P5Q9ibAAAFiJK3JK0StySjAAAAB3NzaC1yc2
EAAAGBAOJXFIVvcrIpnuShYpy6l50Z6t51S29msvB/Rj04JGTopruxKQy6daDCFm5BmPRD
OINJWSKnxXUIONTj36JrlsNRYueGY+IZQJEYKv6QWXFNNSKxHSr5G1dp0+zIZhMQgCfS56
9JkdBa4JjW9X0PQYAPxHrgicXg8eAhQNEJTMgqgsaxK5KH2WkVzYLWI+zF/f+/rtl1y5cj
8Xk7wVr9NV+0gtJDccseC5e/245p9SY2JUhUQ0t09n3pPdEHH8gy23wIIalbzMuIE+/Krx
{\tt GBYjp5StSMkx0JTAmRuLXgWkQM3xcmHQ6+VQ/XIX6fjzpLfsG+P/19ZHUHgn6+xav4H0/fine} \\
X0lc0adhHGZQy6xcixRkmZipF37dfC5LbsnAuMUh62HPlEyiX6fVoYCjay7096BKFtVFuS
dbLZcBI0a5NKaJCXHoKmgrPj+UPYmwAAAAMBAAEAAAGAS1ug3XJpwZ/R41VI0950MRSB+m
cbIpAS67e0bxWOKHq9aKhnfnFmUIvOZA87Gbh3zF5TaxJoz7qLrRXhk3Y2z/j88RDxmInH
0Yc2aWMuJGcMVeyaRYCC9euqP5/JPHe184xozxezkKdxN/H57uu3ZyfYxwCTXmqynWj056
QtCEf/GqBKXZMVc8NqlTEu7NpO4yOy13w8uKmLWJY2iHaEbdsjD8Ny5qcvwzg+H16P0t2J
kp \texttt{MmbSEVlu35bZfkDNgyEC0dr8+fv4XXSOD+Z0aEHvCUt2x5vjL95n6vpXFlLqXJlmG102}
\tt Q5wiwiQtkZIMJbAPjc+I8BQK8ohNHCy3LZGuJMlhR5Dhj8AXhEBCSDDIEg7jPFw2lQpQ36
tosDAvDjrxAKAalKBZdg1/iapSjY1g0c60MUJ43VZ0N8iFJWgwNUMcRnt5ad8+gAeIpd4N
w9s/X92G5q/lSeGEJeCSYQ8CdKLR94bcb5qoCNZ3cYBGCK6SJWeVbmDvX/UBZM5CZBAAAA
wB++GkYxu7xGhCEfSHzmSIp0ocomC5tIsICzBYn5Jh17tLMphayGHUNktHh299VEMr1PwN
 s8sp0T+vJkaOqM5lNXlHhyV3JIydo3odqHxRi0r61o3ofsnb3eZLJGfq1Sbnv5NNx3WmIG
yXRcRmGk07/5YLoAWxysc+95rE0n9G/1qZDTX+AF+8FBxajZ3qMQgyYnV7Y/ND21+a8H++
 f1aNzpDF452mmZ4kRoYGnHAWxuFJdV7CXK4hM+yGLWJSlYDQAAAMEA91wkiqKuwAa0J7b9
hYWUd/XrqW0mDBUFdMR71iThDUL151b/NGwa1YTNp9HM1lEJG4LR9zkCq90KAhPzF0sFMH
GBL03DKTLPSI0DwlF1lSX4jSKYPeRekPzdMjhwhwdoUv82aq6pEQnjwl0FLHtfdH0f48dm
rjta7ZecIQrBZ8Jyj9MjFKjaZp1ygNUN6RLbDf/U7t+dukItkpwASoXQ61ZL36MsvWVS3m
\verb|j2BqMS9ULvs6Er6kvb+2Rbyr23TMezAAAAwQDqPvtI++4Mwjs9LK/RraVJCx844dOnmdT3|\\
 +l/ClBrqUzWz9E1z2wcB+fZWZ+QabSbh23hpXeqoerpInA4L4xzQYt/3Y6EXx4IP22Xtya
zUG+9bcuxKmznZAp031si69oYPaJGSnCfkEtVYvmJpPtnqMzVLfQyegxM0cWVes6zHoRez
6N3wZVYskSBuUETE0Lad3P+rTlyOd132Jm2IacsH9/K0FuI/X0hdRwA60zU6sKLCLLzdU3
rGY0EqUMOmN3kAAAAQYW5zaWJsZUB1YnVudHUtYwECAw=
 ----END OPENSSH PRIVATE KEY--
ansible@ubuntu-c:~$
```

public key 를 원격서버에 복사 후 패스워드 없이 로그인 시도

```
ansible@ubuntu-c:-$ ssh-copy-id ansible@ubuntu1
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/ansible/.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
ansible@ubuntu1's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'ansible@ubuntu1'"
and check to make sure that only the key(s) you wanted were added.

ansible@ubuntu-c:-$ ssh ubuntu1

Last login: Fri Jun 24 08:02:32 2022 from 172.19.0.5

To run a command as administrator (user "root"), use "sudo <command>".

See "man sudo_root" for details.

ansible@ubuntu1:-$
```

3-3. ssh-copy-id 패스워드 입력 자동화 하기

- apt update
- sshpass 설치

```
ansible@ubuntu-c:-$ sudo apt-get update
ansible@ubuntu-c:-$ sudo apt-get install sshpass
Reading package lists... Done
```

ubuntu1, ubuntu2, ubuntu3, centos1, centos2, centos3 에 ssh-copy-id 자동화

```
ansible@ubuntu-c:-$ echo password > password.txt
ansible@ubuntu-c:-$ for user in ansible root
> do
> for os in ubuntu centos
> do
> for instance in 1 2 3
> do
> sshpass -f password.txt ssh-copy-id -o StrictHostKeyChecking=no ${user}@${os}${instance}
> done
> done
> done
> done
ansible@ubuntu-c:-$ rm password.txt
```

StrictHostKeyChecking=no fingerprint 입력 생략



3-4. ansible 호스트 연결 확인

```
ansible@ubuntu-c:~$ ansible -i ubuntu1,ubuntu2,ubuntu3,centos1,centos2,centos3 all -m ping
ubuntu2 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
ubuntu1 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
}
ubuntu3 | SUCCESS => {
    "ansible_facts": {
```

```
"discovered_interpreter_python": "/usr/bin/python3"
    "changed": false,
    "ping": "pong"
centos2 | SUCCESS => {
    "ansible_facts": {
        "discovered\_interpreter\_python": "/usr/libexec/platform-python"
    "changed": false,
    "ping": "pong"
centos1 | SUCCESS => {
    "ansible_facts": {
       "discovered_interpreter_python": "/usr/libexec/platform-python"
    "changed": false,
    "ping": "pong"
centos3 | SUCCESS => {
        "discovered\_interpreter\_python": "/usr/libexec/platform-python"
    "changed": false,
    "ping": "pong"
ansible@ubuntu-c:~$
```

• -i : inventory

• ubuntu1~centos3: host

• all : host의 그룹명

• -m: module

• ping: module 명

4. Setting Up the Course Repository

https://github.com/spurin/diveintoansible

```
ansible@ubuntu-c:-$ git clone https://github.com/spurin/diveintoansible.git
Cloning into 'diveintoansible'...
remote: Enumerating objects: 644, done.
remote: Counting objects: 100% (195/195), done.
remote: Compressing objects: 100% (80/80), done.
remote: Total 644 (delta 171), reused 115 (delta 115), pack-reused 449
Receiving objects: 100% (644/644), 1.95 MiB | 1.76 MiB/s, done.
Resolving deltas: 100% (330/330), done.
Updating files: 100% (1465/1465), done.
ansible@ubuntu-c:-$ cd diveintoansible\{\text{ansible}}\text{ansible}\text{@ubuntu-c:-}/diveintoansible\$\text{ ls}\text{ ls}\text{ ls}\text{ lossible}\text{ lo
```

5. Section 1 and 2 Quiz

Let's check our Ansible Knowledge



Who Invented Ansible?

Answer: Michael DeHaan

What year, was Ansible created in?

Answer: 2012



When, was Ansible Acquired, by Red Hat, In

Answer: 2015



Ansible is a single tool, True or False

Answer: False - Ansible, is a toolset, comprising of many tools, modules and is also an extensible

framework



Name some of the core components, of Ansible

Answer

Modules

ansible executable

ansible-playbook executable

Inventories

... many mor

Let's check our Ansible Knowledge



What are the types of targets, we can use with Ansible

Moete

Hosts

Network Switche

Containers

more more



When SSH is used, during the secure channel configuration, what algorithm is used to create a

Answer: Diffie-Hellman



What command is used, to generate a public and private sch keypair

A ------

In what file, should a public key be added to on a remote

Answer: authorized keys

Let's check our Ansible Knowledge



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would you find a generated public and private ssh key, a known_hosts file and the authorized_keys file Answer: .ssih

What is the name of the convenient ssh tool, we c use for copying our public key, to a target users

Answer: ssh-copy-io



What is the SSH option, for automatically accepting unknown Host Key Fingerprints

Answer: StrictHostKeyChecking=no



On the command, "ansible -i, ubuntu1 -m ping" what does the -i and -m option represent

Answer: -i is used for the inventory, -m is used for

the module