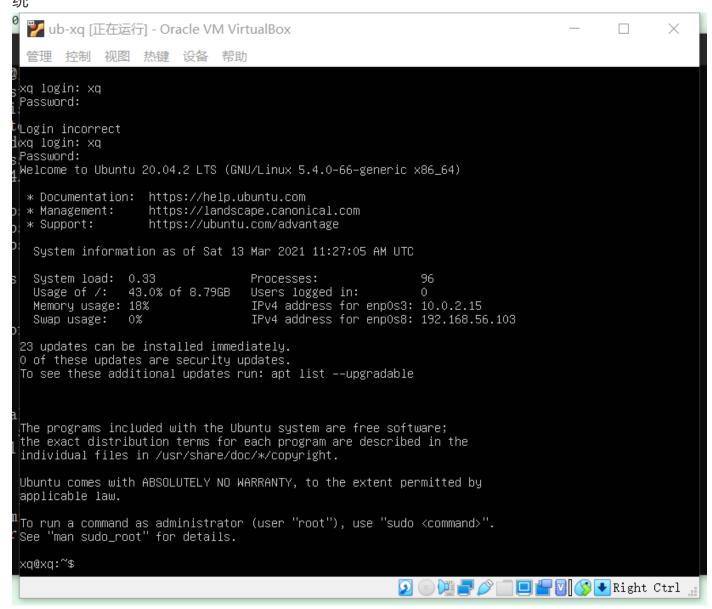
第一次试验

实验目的: 无人值守虚拟机安装

试验过程:

• 在Ubuntu官网上下载好ubuntu-20.04.2-live-server-amd64.iso,并且导入虚拟机手动安装好一个系统



• 在cmd界面ssh刚装好的虚拟机

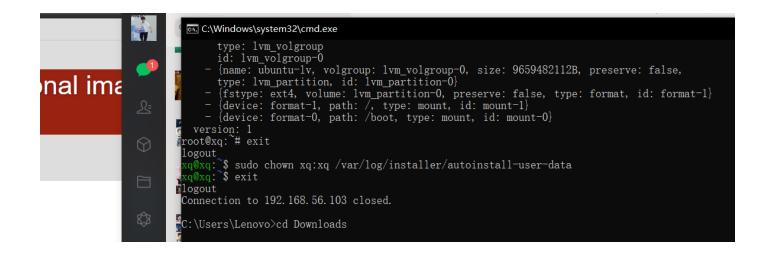
```
□1. xq@xq: ~
                                                                                                                                                                                                C:\Users\Lenovo>ssh xq@192.168.56.103
The authenticity of host '192.168.56.103 (192.168.56.103)' can't be established.
ECDSA key fingerprint is SHA256:bhHUz5gt2JcH4ftq/7kzxDSQ0E1xqUdTg+/6lekwg18.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.56.103' (ECDSA) to the list of known hosts.
xq@192.168.56.103's password:
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-66-generic x86_64)
 * Documentation: https://help.ubuntu.com

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

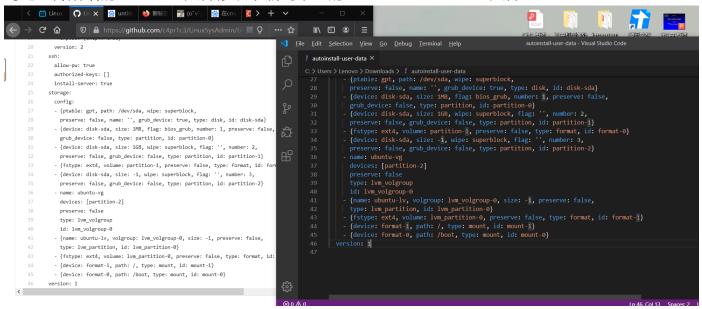
* Support: https://ubuntu.com/advantage
   System information as of Sat 13 Mar 2021 11:37:45 AM UTC
   System load: 0.08
                                                          Processes:
   Usage of /: 43.1% of 8.79GB
Memory usage: 20%
                                                         Users logged in:
                                                         IPv4 address for enp0s3: 10.0.2.15
IPv4 address for enp0s8: 192.168.56.103
   Swap usage:
 23 updates can be installed immediately.
O of these updates are security updates.
To see these additional updates run: apt list --upgradable
 ast login: Sat Mar 13 11:27:06 2021
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
   @xq:~$
```

• 切换到root权限并且获取autoinstall-user-data文件

```
ा. root@xq: ~
                                                                                                                                         Usage of /:
                   43.1% of 8.79GB
                                         Users logged in:
                                         IPv4 address for enp0s3: 10.0.2.15
IPv4 address for enp0s8: 192.168.56.103
  Memory usage: 20%
  Swap usage:
23 updates can be installed immediately.
O of these updates are security updates.
To see these additional updates run: apt list --upgradable
Last login: Sat Mar 13 11:27:06 2021
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
xq@xq:<sup>~</sup>$ cat /var/log/installer/autoinstall-user-data
<del>cat: /var/log/install</del>er/autoinstall-user-data: Permission denied
cat: /var/log/instal
xq@xq: $ sudo su -
#cloud-config
autoinstall:
  apt:
     geoip: true
     preserve_sources_list: false
      arches: [amd64, i386]
       uri: http://cn.archive.ubuntu.com/ubuntuarches: [default]
  uri: http://ports.ubuntu.com/ubuntu-portsidentity: {hostname: xq, password: $6$1VrS5nC.FoKlnTJx$Nu/uRQYyfqGL0wwn/seoFN3gQgZguaE4HJtiItxCws8MIVqdU.nNJH0gXaGaoip
```



• 对比老师所给的user-data文件修改下载到本地的autoinstall-user-data文件



• 将改好的autoinstall-user-data文件和新建的meta-data空文件传输到虚拟机中,

图示前面两步: 在当前目录下打开Git bush面板输入指令

```
MINGW64:/d/share
                                                                        Lenovo@LAPTOP-OODKVTNE MINGW64 /d/share
 $ scp meta-data xq@192.168.56.103:/home/xq
 xg@192.168.56.103's password:
meta-data
                                               100%
                                                      0
                                                            0.0KB/s
                                                                      00:00
Lenovo@LAPTOP-00DKVTNE MINGW64 /d/share
 $ scp autoinstall-user-data xq@192.168.56.103:/home/xq
 xq@192.168.56.103's password:
 autoinstall-user-data
                                               100% 1856
                                                           283.0KB/s
                                                                      00:00
 Lenovo@LAPTOP-OODKVTNE MINGW64 /d/share
 $ scp xq@192.168.56.103:/home/xq/xq.iso ./
 xq@192.168.56.103's password:
 xq.iso
                                              100% 364KB 30.1MB/s
                                                                      00:00
 Lenovo@LAPTOP-OODKVTNE MINGW64 /d/share
```

- 下载cloud-image-utils插件并且合成iso文件
- 合成iso文件成功之后记得pwd查看文件所在位置方便物理主机下载到本地

```
su: Authentication failure
                                                                                                            Fir
xq@xq:~$ sudo apt install cloud-image-utils
 [sudo] password for xq:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  distro-info genisoimage ibverbs-providers libboost-iostreams1.71.0 libboost-thread1.71.0
  libibverbs1 libiscsi7 libnl-route-3-200 librados2 librbd1 librdmacm1 qemu-block-extra qemu-utils
  sharutils
Suggested packages:
mtools shunit2 wodim cdrkit–doc debootstrap sharutils–doc bsd–mailx | mailx
 The following NEW packages will be installed:
  cloud-image-utils distro-info genisoimage ibverbs-providers libboost-iostreams1.71.0
  libboost-thread1.71.0 libibverbs1 libiscsi7 libnl-route-3-200 librados2 librbd1 librdmacm1
  qemu-block-extra qemu-utils sharutils
O upgraded, 15 newly installed, O to remove and 23 not upgraded.
Need to get 7,420 kB of archives.
After this operation, 35.3 MB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://cn.archive.ubuntu.com/ubuntu focal/main amd64 distro–info amd64 0.23ubuntu1 [17.1 kB]
Get:2 http://cn.archive.ubuntu.com/ubuntu focal/main amd64 genisoimage amd64 9:1.1.11–3.1ubuntu1 [33
0 kB]
                                                                                                           7
Get:3 http://cn.archive.ubuntu.com/ubuntu focal/main amd64 libnl–route–3–200 amd64 3.4.0–1 [149 kB]
                                                                                                           QC
Get:4 http://cn.archive.ubuntu.com/ubuntu focal/main amd64 libibverbs1 amd64 28.0−1ubuntu1 [53.6 kB]
Get:5 http://cn.archive.ubuntu.com/ubuntu focal/main amd64 ibverbs–providers amd64 28.0–1ubuntu1 [23
13% [5 ibverbs-providers 121 kB/232 kB 52%]
                                                                                     37.4 kB/s 3min 0s
14% [5 ibverbs-providers 210 kB/232 kB 90%]
                                                                                    37.4 kB/s 2min 58s
                                                          🖸 💿 📜 🚅 🥟 📄 🔲 🚰 🔯 🚫 🖜 Right Ctrl
                                                                                                            7
                                                                   女 实验报告一.
                                                                                  【素材】PS
                                                                                                Steam
                                                                                                            ΕV
                                                                         pdf
                                                                                 进阶直播课...
   cp: cannot stat 'autoinstall–user–data': No such file or directory
   autoinstall-user-data: failed to conv
  xq@xq:~$ cloud–localds ./xq.iso autoinstall–user–data meta–data
xq@xq:~$ pwd
  /home/xa
   xq@xq:~$ _
```

🛐 💿 📜 🚅 🥟 📄 🔲 🚰 🔯 🚫 🚺 Right Ctrl 🚂

focal-init-...

• 将生成的iso文件传输下载到本地的目录下

有道

7

Excel

• 下图所示的第三条指令显示传输下载到物理主机的d盘的share文件夹

Phasmop... github交作

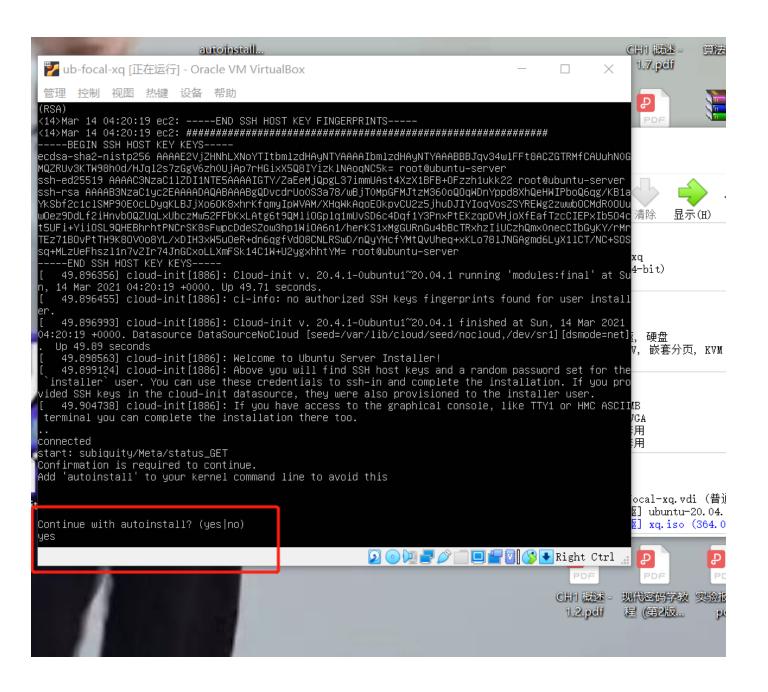
业操作示...



autoinstall-user-data 2021/3/14 10:27 meta-data 2021/3/14 11:40	文件	2 KB
meta-data 2021/3/14/11:40		
	文件	0 KB
i xq.iso 2021/3/14 12:08	光盘映像文件	364 KB

• 挂载生成的iso文件、原本的iso文件,无人值守安装虚拟机





----END SSH HOST KEY KEYS-----[38.905795] cloud-init[1457]: Cloud-init v. 20.4.1–Oubuntu1~20.04.1 running 'modules:final' at Su n, 14 Mar 2021 04:26:47 +0000. Up 38.73 seconds.

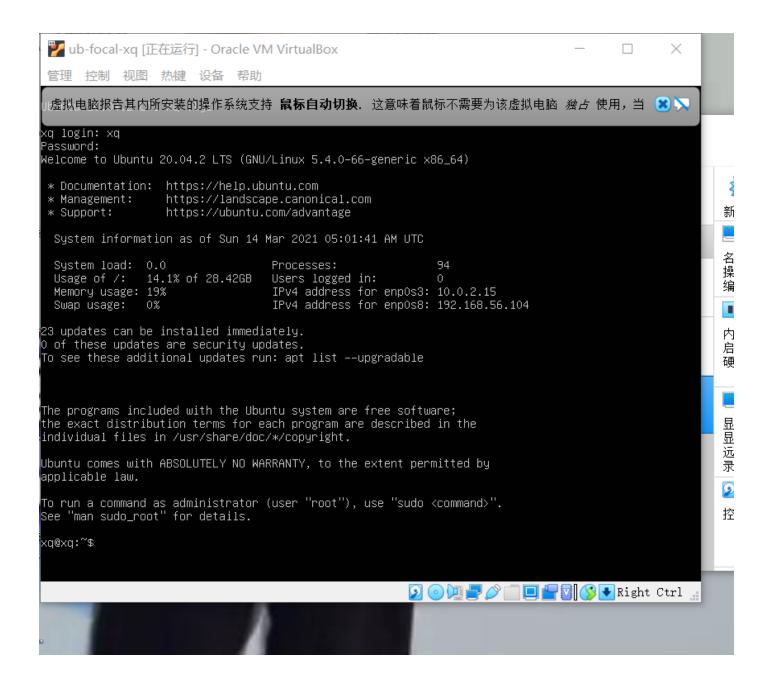
i, 14 Mai 2021 04.28.47 +0000. op 36.73 seconds. [38.905918] cloud–init[1457]: ci–info: no authorized SSH keys fingerprints found for user xq.

[38.906000] cloud–init[1457]: Cloud–init v. 20.4.1–Oubuntu1~20.04.1 finished at Sun, 14 Mar 2021 D4:26:47 +0000. Datasource DataSourceNone. Up 38.90 seconds

[38.906075] cloud–init[1457]: 2021–03–14 04:26:47,834 – cc_final_message.py[WARNING]: Used fallba ck datasource

kq login:





验证

```
ол. xq@xq: ~
                                                                                                                                                                    C:\Users\Lenovo>ssh xq@192.168.56.104
The authenticity of host '192.168.56.104 (192.168.56.104)' can't be established.
ECDSA key fingerprint is SHA256:2IaDcaoJGrUihoMU3+3HC040V3rgXwz4GgKdMZ6Gukw.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.56.104' (ECDSA) to the list of known hosts.
xq@192.168.56.104's password:
Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-66-generic x86_64)
 * Documentation: https://help.ubuntu.com

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

* Support: https://ubuntu.com/advantage
   System information as of Sun 14 Mar 2021 05:03:05 AM UTC
                       0.0
                                                   Processes:
   Usage of /: 14.1
Memory usage: 20%
                       14.1% of 28.42GB
                                                   Users logged in:
                                                   IPv4 address for enp0s3: 10.0.2.15
                                                   IPv4 address for enp0s8: 192.168.56.104
   Swap usage:
23 updates can be installed immediately.
O of these updates are security updates.
To see these additional updates run: apt list --upgradable
Last login: Sun Mar 14 05:01:42 2021
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.
   1@xq:~$
```

实验完成 喜大普奔

出现的问题&解决

- 前两次手动安装Ubuntu20.04时无法获取ip地址
 - 。 解决方式:应该在导入iso文件之前设置双网卡
- 将下载得到的autoinstall-user-data文件传输到虚拟机中还尝试了建立共享文件夹,并在共享文件夹中放入autoinstall-user-data文件和meta-data文件,但是在虚拟机中不能找到相关的文件,合成iso文件无果,查看虚拟机中的共享文件夹需要root权限,需要加强插件等等,学艺不精没有行通
- 刚开始Git bush两个文件到虚拟机中时报错提示不能找到文件
 - 。 解决方式: 在文件所在的目录下Git bush
- 在提问时看到语雀上面的相关提问,所以提前将autoinstall-user-data换源。安装速度变快;
 - 参考链接: http://mirrors.aliyun.com/ubuntu/ https://mirrors.aliyun.com/ubuntu-ports/
- 传输两个文件到虚拟机参考: https://blog.csdn.net/Brave heart4pzj/article/details/102667985