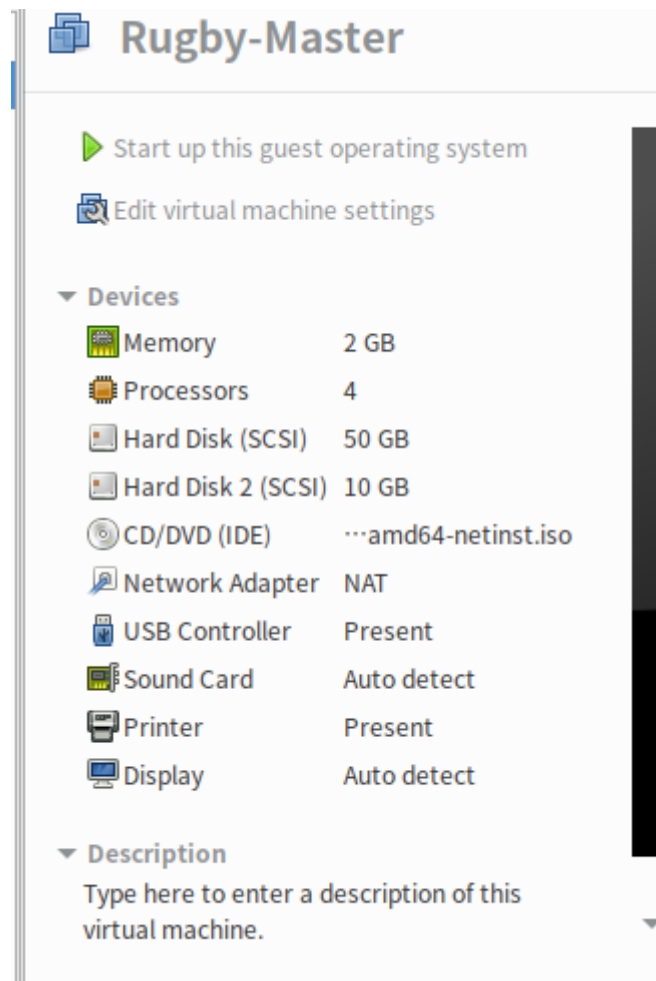


# Prepare

## vm config

os: debian-9.8.0-amd64-netinst

No graphical interface



## static ip

```
supinfo@RugbyMaster:~$ sudo apt-get install net-tools
supinfo@RugbyMaster:~$ sudo vim /etc/network/interfaces
```

```
# The primary network interface
+auto ens33
allow-hotplug ens33
iface ens33 inet static
+      address 192.168.10.130
+      netmask 255.255.255.0
```

# mount

8G partition for user account.

2G partition for archives .

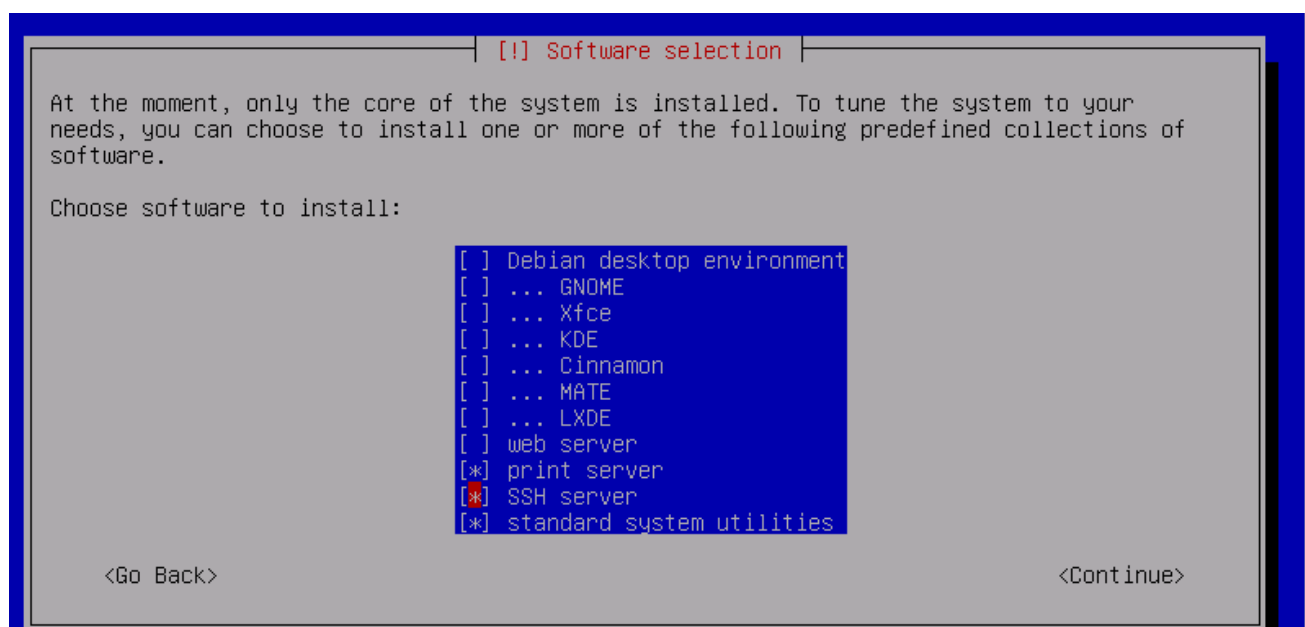
```
Created a new partition 1 of type 'Linux' and of size 8 GiB.  
Created a new partition 1 of type 'Linux' and of size 2 GiB.
```

```
supinfo@RugbyMaster:~$ sudo fdisk -l  
Disk /dev/sdb: 10 GiB, 10737418240 bytes, 20971520 sectors  
Units: sectors of 1 * 512 = 512 bytes  
Sector size (logical/physical): 512 bytes / 512 bytes  
I/O size (minimum/optimal): 512 bytes / 512 bytes  
Disklabel type: dos  
Disk identifier: 0x5a798bd8
```

Device	Boot	Start	End	Sectors	Size	Id	Type
/dev/sdb1		63	16777279	16777217	8G	83	Linux
/dev/sdb2		16777280	20971519	4194240	2G	83	Linux

```
# storage disk for user data  
/dev/sdb1      /storage/user  ext4    defaults 0 0  
/dev/sdb2      /storage/user  ext4    defaults 0 0
```

# SSH



```
supinfo@RugbyMaster:~$ sudo service ssh status
* ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
   Active: active (running) since Sat 2019-04-13 12:35:29 UTC; 6min ago
   Process: 493 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
   Main PID: 502 (sshd)
      Tasks: 1 (limit: 19660)
     CGroup: /system.slice/ssh.service
             └─502 /usr/sbin/sshd -D
```

## ssh key in pc

```
gorkr@gorkr-PC:~$ scp /home/gorkr/.ssh/id_rsa.pub
supinfo@192.168.10.130:/home/supinfo/.ssh
supinfo@192.168.10.130's password:
id_rsa.pub                                100% 401
615.4KB/s  00:00
```

## in server, only administer account, refuse root

```
supinfo@RugbyMaster:~$ chmod 700 .ssh
supinfo@RugbyMaster:~$ mv .ssh/id_rsa.pub .ssh/authorized_keys

PubkeyAuthentication yes                #允许公钥认证
AuthorizedKeysFile .ssh/authorized_keys #指定包含用于用户身份验证的公钥的文件
PasswordAuthentication no              #选项前面可以加#号注释掉，同样会禁用密码登录
PermitRootLogin no

supinfo@RugbyMaster:~$ sudo systemctl restart sshd.service
```

# Users

## demo user

```
empty:x:1001:1003:::/storage/user/home/empty:/bin/bash
half:x:1002:1004:::/storage/user/home/half:/bin/bash
overflow:x:1003:1005:::/storage/user/home/overflow:/bin/bash
```

## system account

```

root@RugbyMaster:/# useradd -r -s /sbin/nologin rugbadadmin

root@RugbyMaster:/# cat /etc/passwd | grep rugbadadmin
rugbadadmin:x:997:997::/home/rugbadadmin:/sbin/nologin

root@RugbyMaster:/script# vim /etc/sudoers

```

## Quota

```

root@RugbyMaster:/home/supinfo# sudo cat /etc/fstab
# /etc/fstab: static file system information.
#
# Use 'blkid' to print the universally unique identifier for a
# device; this may be used with UUID= as a more robust way to name devices
# that works even if disks are added and removed. See fstab(5).
#
# <file system> <mount point> <type> <options>          <dump> <pass>
# / was on /dev/sda1 during installation
UUID=f0e0f04e-a984-4556-831b-4af9f16013be /
1
# swap was on /dev/sda5 during installation
UUID=8804f190-027b-4e0f-9918-a154fa4fa40b none
0
/dev/sr0 /media/cdrom0 udf,iso9660 user,noauto 0 0

# storage disk for user data
/dev/sdb1 /storage/user ext4 defaults,usrquota,grpquota 0 0
/dev/sdb2 /storage/safeplace ext4 defaults 0 0
root@RugbyMaster:/home/supinfo#

/dev/sdb1 on /storage/user type ext4 (rw,relatime,quota,usrquota,grpquota,data=ordered)

root@RugbyMaster:/home/supinfo# quotacheck -acgu
root@RugbyMaster:/home/supinfo# quotaon -a

root@RugbyMaster:/home/supinfo# edquota -u empty
root@RugbyMaster:/home/supinfo# quota -u empty
Disk quotas for user empty (uid 1001):
    Filesystem blocks quota limit grace files quota limit grace
    /dev/sdb1 20 409600 512000 5 0 0
root@RugbyMaster:/home/supinfo# edquota -p empty -u half
root@RugbyMaster:/home/supinfo# edquota -p empty -u overflow

```

## Sudo

```
visudo
supinfo ALL=(root) /bin/chmod
supinfo ALL=(ROOT) /bin/mv
```

## Cron

---

```
root@RugbyMaster:/home/supinfo/bin# cat /etc/cron.allow
rugbadadmin

root@RugbyMaster:/script# ls -l
total 4
-rwx----- 1 rugbadadmin rugbadadmin 885 May  6 09:12 monit_and_archive.sh

root@RugbyMaster:/script# crontab -e -u rugbadadmin
0 * * * * /script/monit_and_archive.sh

root@RugbyMaster:/script# crontab -l -u rugbadadmin
0 * * * * /script/monit_and_archive.sh
```