

一、编程题（共1道题共100分）

1

1、最小化安装centos7操作系统

100分

2、新增硬盘分两个分区，两个分区的文件系统依次为ext4和xfs

3、将两个文件系统分别挂到/mnt和/opt目录

4、新增普通用户egon并采用无需重复确认的方式为该用户设定密码

5、将egon添加到/opt的属组里，保证egon能对/opt有读写权限，并且保证others只能浏览/opt的内容以及可以切换到/opt目录下

代码语言

答题卡

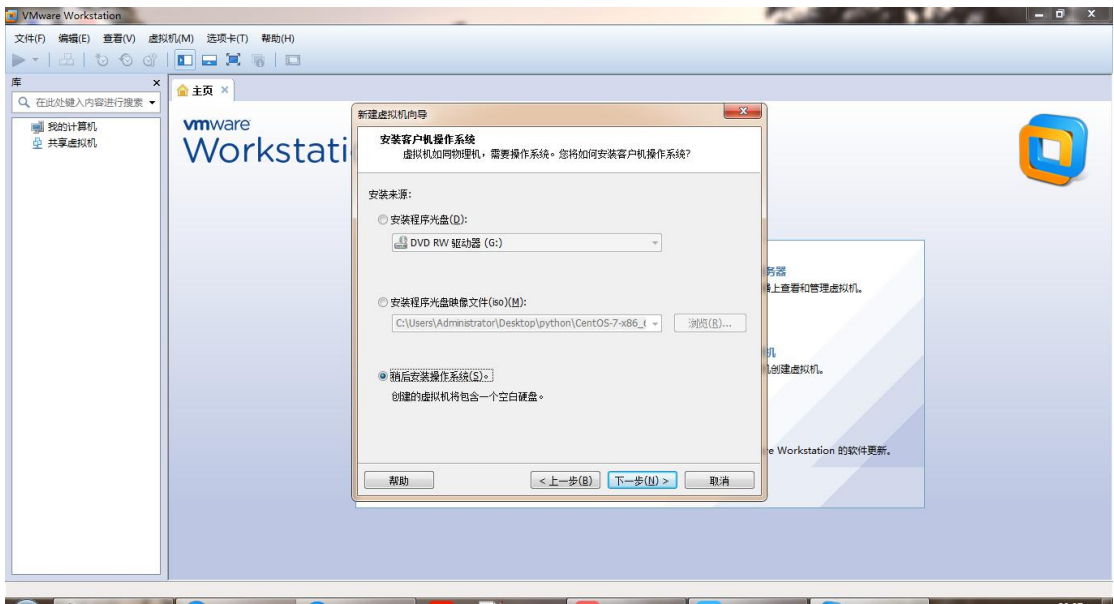
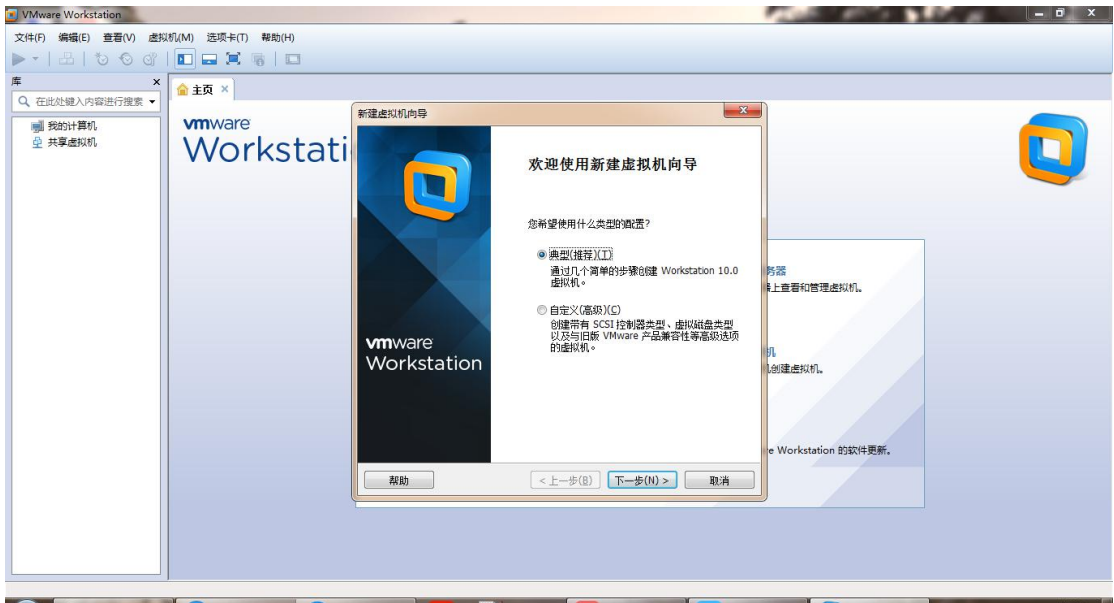
已答

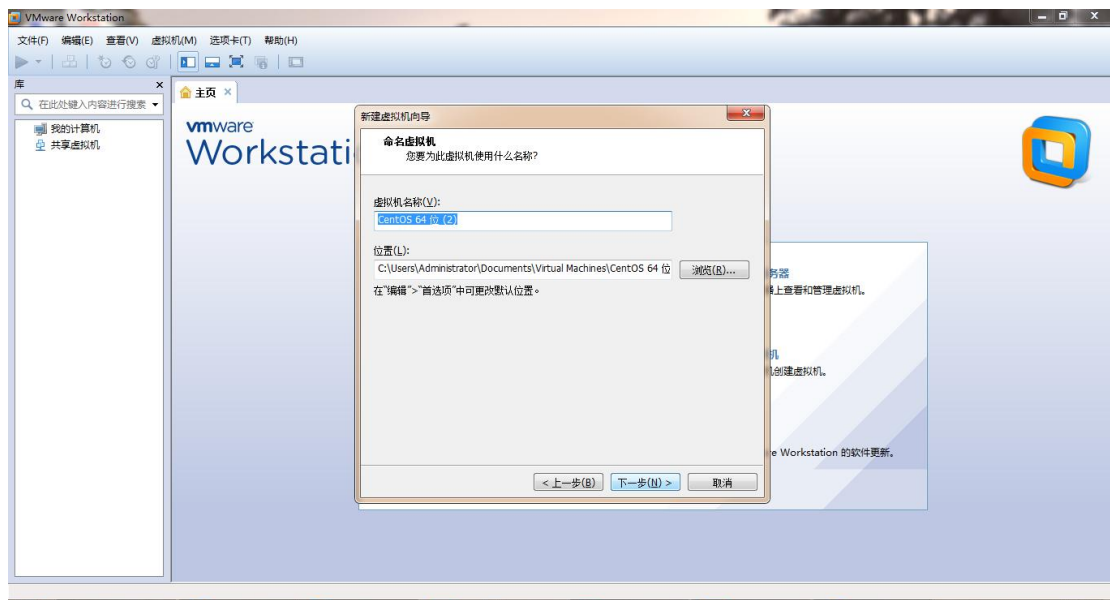
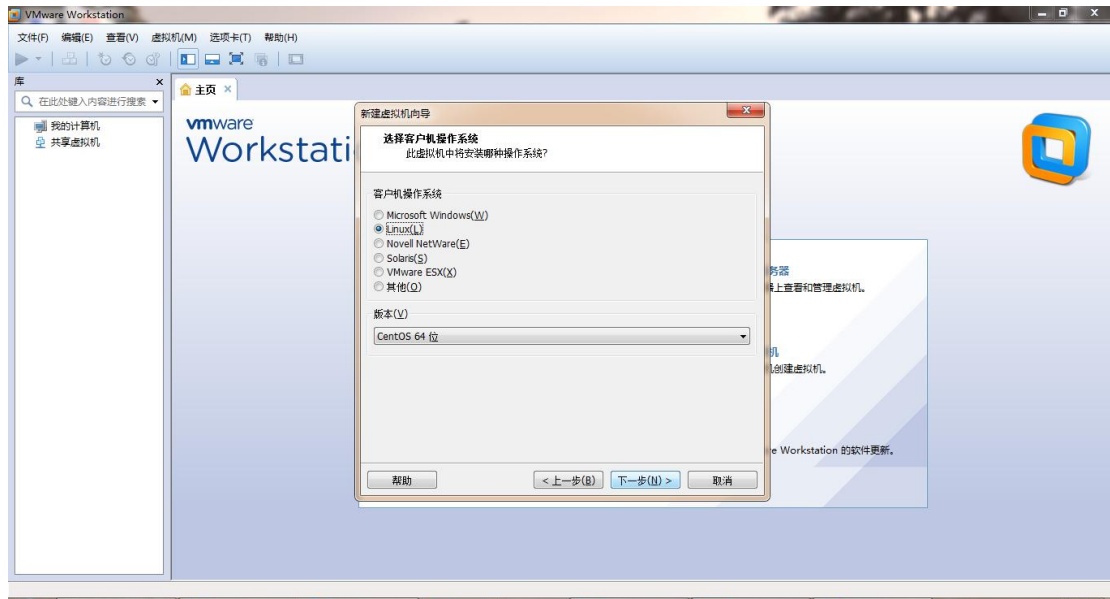
未答

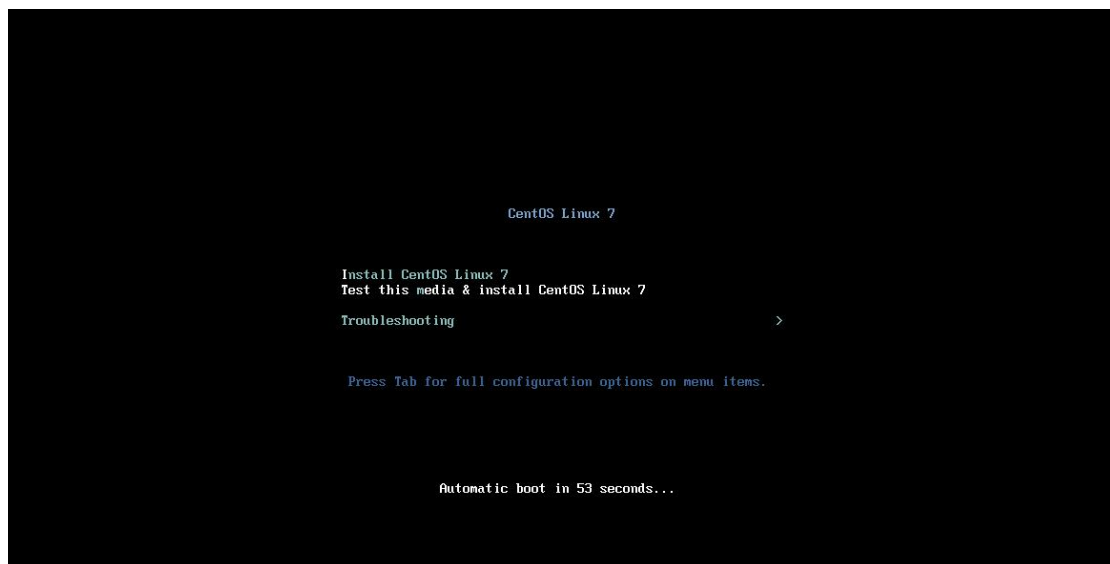
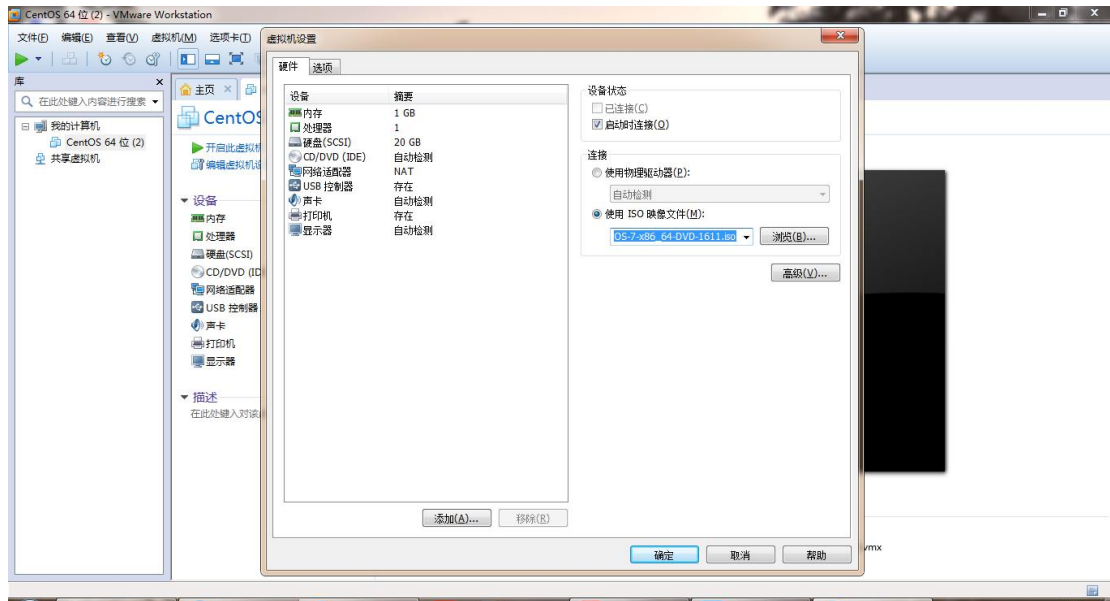
一、编程题

1

交卷









CENTOS LINUX 7 INSTALLATION

us

Help!

## WELCOME TO CENTOS LINUX 7.

What language would you like to use during the installation process?

English	English	English (United States)
Afrikaans	Afrikaans	English (United Kingdom)
አማርኛ	Amharic	English (India)
العربية	Arabic	English (Australia)
অসমীয়া	Assamese	English (Canada)
Asturianu	Asturian	English (Denmark)
Беларуская	Belarusian	English (Ireland)
Български	Bulgarian	English (New Zealand)
বাংলা	Bengali	English (Nigeria)
		English (Hong Kong SAR China)

Quit

Continue



## 安装信息摘要

CENTOS LINUX 7 安装

cn

帮助!



语言支持(L)  
简体中文 (中国)

### 软件



安装源(I)  
本地介质



软件选择(S)  
最小安装

### 系统



安装位置(D)  
已选择自动分区



KDUMP  
已启用 Kdump



网络和主机名(N)  
未连接



SECURITY POLICY  
No profile selected

退出(Q)

开始安装(B)

在点击“开始安装”按钮前我们并不会操作您的磁盘。

请先完成带有此图标标记的内容再进行下一步。

安装目标位置

CENTOS LINUX 7 安装

完成(D)

cn

帮助!

安装目标位置

20 GiB

VMware, VMware Virtual S

sda / 20 GiB 空闲

不会对未在此处选择的磁盘进行任何操作。

专用磁盘 & 网络磁盘

添加磁盘(A)...

不会对未在此处选择的磁盘进行任何操作。

其它存储选项

分区

☒ 自动配置分区(U)。 ☐ 我要配置分区(I)。

☐ 我想让额外空间可用(M)。

加密

☐ 加密我的数据(E)。 然后设置密码。

[完整磁盘摘要以及引导程序\(F\)...](#)

已选择 1 个磁盘；容量 20 GiB；20 GiB 空闲 [刷新](#)

配置

CENTOS LINUX 7 安装

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帮助!

用户设置

ROOT 密码

Root 密码未设置

创建用户(U)

不会创建任何用户

正在启动软件包安装进程

CentOS Core SIG

Produces the CentOS Linux Distribution.

[wiki.centos.org/SpecialInterestGroup](http://wiki.centos.org/SpecialInterestGroup)

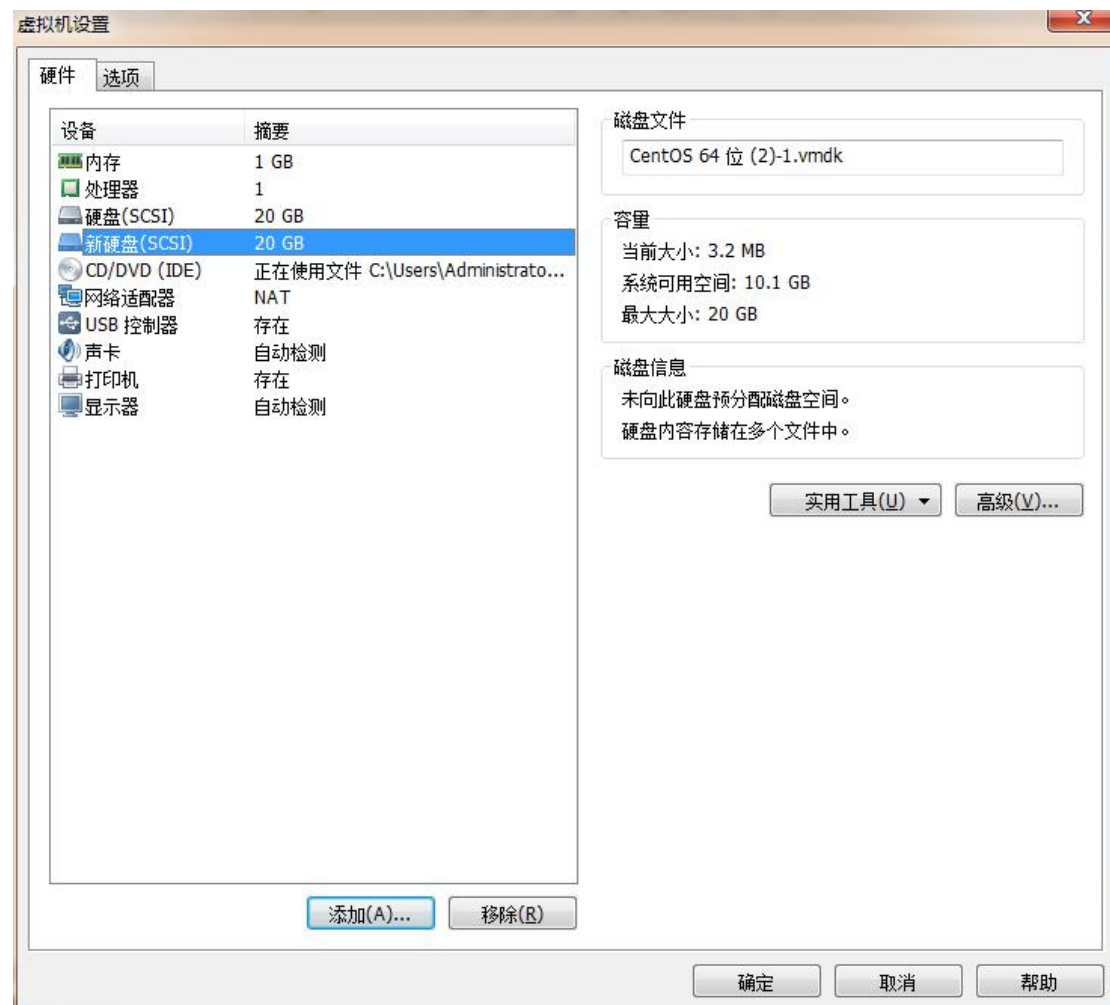
请先完成带有此图标记的内容再进行下一步。

```
CentOS Linux 7 (Core)
Kernel 3.10.0-514.el7.x86_64 on an x86_64

localhost login: root
Password:
Login incorrect

localhost login: calvin
Password:
Login incorrect

localhost login: root
Password:
[root@localhost ~]# _
```



```
[root@localhost ~]# fdisk /dev/sdb
Welcome to fdisk (util-linux 2.23.7).

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help): p

Disk /dev/sdb: 21.5 GB, 21474836480 bytes, 41943040 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
Disk label type: dos
Disk identifier: 0xca5dcce3

   Device Boot      Start         End      Blocks   Id  System
   -----
Command (m for help): n

Partition type:
   p   primary (0 primary, 0 extended, 4 free)
   e   extended
Select (default p):
Using default response p
Partition number (1-4, default 1):
First sector (2048-41943039, default 2048):
Using default value 2048
Last sector, +sectors or +size(K,M,G) (2048-41943039, default 41943039): +10G
Partition 1 of type Linux and of size 10 GiB is set

Command (m for help): n

Partition type:
   p   primary (1 primary, 0 extended, 3 free)
   e   extended
Select (default p): e
Partition number (2-4, default 2):
First sector (20973568-41943039, default 20973568):
Using default value 20973568
Last sector, +sectors or +size(K,M,G) (20973568-41943039, default 41943039):
Using default value 41943039
Partition 2 of type Extended and of size 10 GiB is set

Command (m for help): w
```

制作文件系统:

mkfs.ext4 /dev/sdb1

mkfs.xfs -f /dev/sdb2

```
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0xca5dcce3

   Device Boot      Start         End      Blocks   Id  System
   -----
/dev/sdb1          2048        20973567    10405760    83  Linux
/dev/sdb2          20973568       41943039    10404736    83  Linux

Command (m for help): w
The partition table has been altered!

Calling ioctl() to re-read partition table.
Syncing disks.
[root@localhost ~]# mkfs.ext4 /dev/sdb1
mkfs2fs 1.42.9 (28-Dec-2015)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
655360 inodes, 2621440 blocks
131072 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=2151677952
99 block groups
32768 blocks per group, 32768 fragments per group
8192 inodes per group
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632

Allocating group tables: done
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done

[root@localhost ~]#
```

```
[root@localhost ~]# mkfs.xfs -f /dev/sdb2
meta-data=/dev/sdb2             isize=512    agcount=4, agsize=655296 blks
=                               sectsz=512   attr=2, projid32bit=1
=                               crc=1        finobt=0, sparse=0
data                =           bsize=4096    blocks=2621184, imaxpct=25
=                               sunit=0       swidth=0 blks
naming              =version 2              bsize=4096    ascii-ci=0 ftype=1
log                 =internal log           bsize=4096    blocks=2560, version=2
=                               sectsz=512   sunit=0 blks, lazy-count=1
realtime            =none                   extsz=4096    blocks=0, rtextents=0
[root@localhost ~]#
```

输入定向到该虚拟机, 请在虚拟机内部单击或按 Ctrl+G.





挂载目录:

```
[root@localhost ~]# mount /dev/sdb1 /mnt
[root@localhost ~]# [ 519.291974] sdb1: WRITE SAME failed. Manually zeroing.

[root@localhost ~]# mount /dev/sdb2 /opt
[root@localhost ~]# df
Filesystem            1K-blocks    Used Available Use% Mounted on
/dev/mapper/cl-root   17811456 1044856  16766600   6% /
devtmpfs              493196      0    493196    0% /dev
tmpfs                 504196      0    504196    0% /dev/shm
tmpfs                 504196    6868    497328    2% /run
tmpfs                 504196      0    504196    0% /sys/fs/cgroup
/dev/sda1             1038336 141728   896608   14% /boot
tmpfs                 100840      0    100840    0% /run/user/0
/dev/sdb1             10190100 36888   9612540    1% /mnt
/dev/sdb2             10474496 32944  10441552    1% /opt
```

添加用户, 修改密码

```
/dev/sdb2             10474496 32944  10441552    1% /opt
[root@localhost ~]# useradd egon
[root@localhost ~]# echo 123!passwd --stdin egon
Changing password for user egon.
passwd: all authentication tokens updated successfully.
[root@localhost ~]#
```

设置权限

```
usermod: group 'opt' does not exist
[root@localhost ~]# ll -dl /opt
drwxr-xr-x. 2 root root 6 Sep 24 04:42 /opt
[root@localhost ~]# usermod -G root egon
[root@localhost ~]# id egon
uid=1000(egon) gid=1000(egon) groups=1000(egon),0(root)
[root@localhost ~]# chmod 765 /opt
[root@localhost ~]# ll -dl /opt
drwxrw-r-x. 2 root root 6 Sep 24 04:42 /opt
[root@localhost ~]#
```