clone-vm7脚本解读：

**vim /usr/local/bin/clone-vm7**

#!/bin/bash

###$IMG\_DIR为镜像文件存放位置###

IMG\_DIR=/var/lib/libvirt/images

###$BASEVM为.img镜像文件模板名###

BASEVM=rh7\_template

read -p "Enter VM number: " VMNUM

###用户输入个位数时，前面补0###

if [ $VMNUM -le 9 ];then

VMNUM=0$VMNUM

fi

###判断用户无输入、输入英文、范围不在{1..99}时报错###

if [ -z "${VMNUM}" ]; then

echo "You must input a number."

exit 65

elif [ $(echo ${VMNUM}\*1 | bc) = 0 ]; then

echo "You must input a number."

exit 66

elif [ ${VMNUM} -lt 1 -o ${VMNUM} -gt 99 ]; then

echo "Input out of range"

exit 67

fi

###$NEWVM为新建虚拟机名称###

NEWVM=rh7\_node${VMNUM}

###判断虚拟机是否已存在###

if [ -e $IMG\_DIR/${NEWVM}.img ]; then

echo "File exists."

exit 68

fi

###提示信息：正在创建虚拟机的磁盘镜像......###

echo -en "Creating Virtual Machine disk image......\t"

###基于/var/lib/libvirt/images/.rh7\_template.img，克隆虚拟机镜像###

qemu-img create -f qcow2 -b $IMG\_DIR/.${BASEVM}.img $IMG\_DIR/${NEWVM}.img &> /dev/null

echo -e "\e[32;1m[OK]\e[0m"

###基于/var/lib/libvirt/images/.rhel7.xml，复制配置文件模板###

cat /var/lib/libvirt/images/.rhel7.xml > /tmp/myvm.xml

###修改<name />，指定克隆虚拟机名###

sed -i "/<name>${BASEVM}/s/${BASEVM}/${NEWVM}/" /tmp/myvm.xml

###修改<source file />，指定镜像文件位置###

sed -i "/${BASEVM}\.img/s/${BASEVM}/${NEWVM}/" /tmp/myvm.xml

###提示信息：正在定义新的虚拟机......###

echo -en "Defining new virtual machine......\t\t"

###根据修改后的/tmp/myvm.xml配置文件，定义新的虚拟机###

virsh define /tmp/myvm.xml &> /dev/null

echo -e "\e[32;1m[OK]\e[0m"