

ESXI 迁移至KVM (V2V迁移)

惨绿少年 云计算, 虚拟化 0评论 来源: 本站原创

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字体:

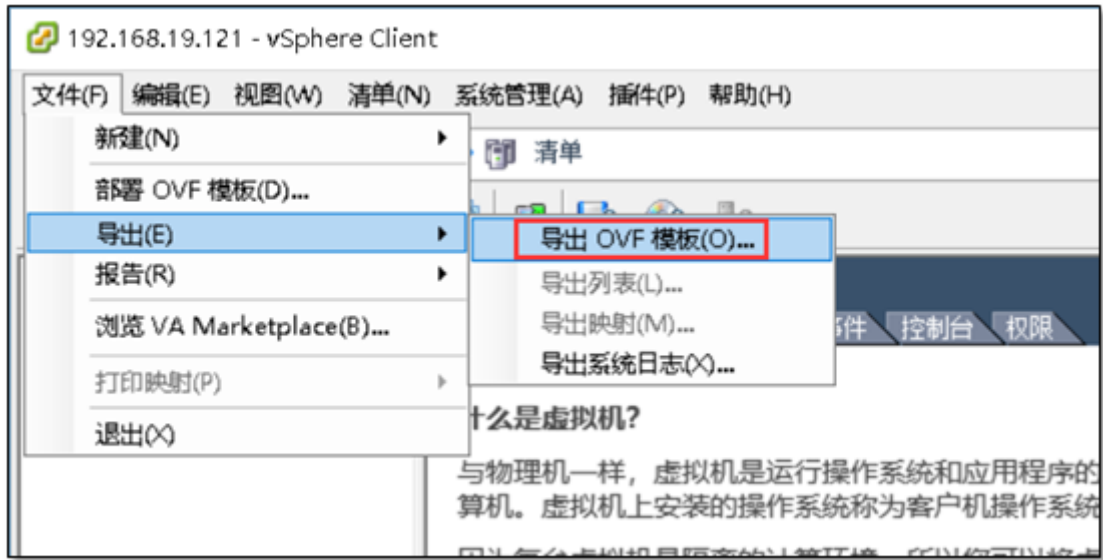
小

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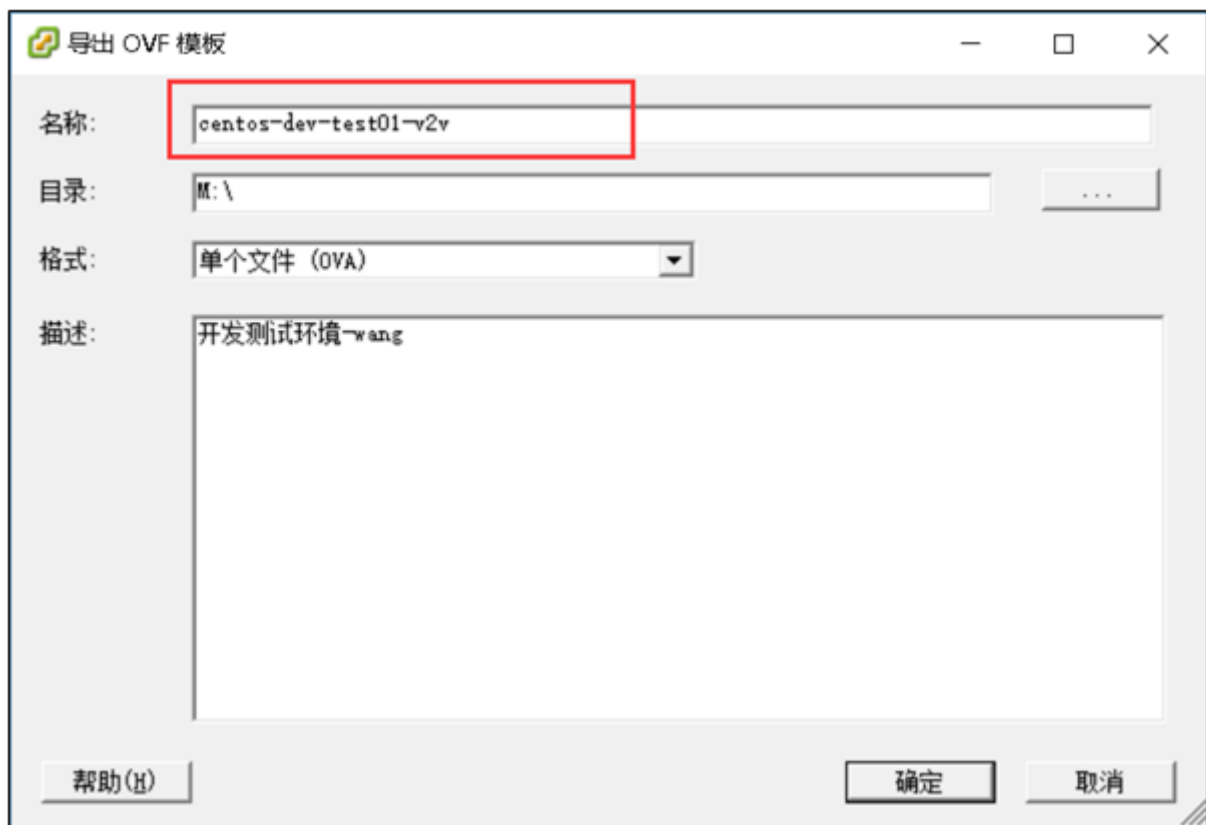
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1.1.1 ESXI将虚拟机导出

机导出



导出ova模板



将导出的ova模板导入到KVM环境中。

1.1.2 配置KVM环境

详情参考: <http://www.cnblogs.com/clsn/p/8366251.html>

安装所需要的组件

```
[root@clsn7 ~]# yum install libvirt* virt-* qemu-kvm* -y
```

配置桥接网卡

```
[root@clsn7 ~]# virsh iface-bridge eth1 br1
使用附加设备 br1 生成桥接 eth1 失败
已启动桥接接口 br1
```

1.1.3 导入虚拟机

启动kvm管理程序，并设置开机自启动

```
[root@clsn7 ~]# systemctl start libvirtd.service
[root@clsn7 ~]# systemctl enable libvirtd.service
```

创建虚拟机存放目录

```
[root@clsn7 ~]# virt-v2v -i ova centos-dev-test01-v2v.ova -o local -os /vmhost/dev/dev-test01
[ 0.0] Opening the source -i ova centos-dev-test01-v2v.ova
virt-v2v: warning: making OVA directory public readable to work around
libvirt bug https://bugzilla.redhat.com/1045069
[ 23.1] Creating an overlay to protect the source from being modified
[ 23.4] Initializing the target -o local -os /vmhost/dev/dev-test01
[ 23.4] Opening the overlay
[ 41.4] Inspecting the overlay
[ 57.5] Checking for sufficient free disk space in the guest
[ 57.5] Estimating space required on target for each disk
[ 57.5] Converting CentOS release 6.9 (Final) to run on KVM
virt-v2v: This guest has virtio drivers installed.
[ 178.6] Mapping filesystem data to avoid copying unused and blank areas
[ 178.9] Closing the overlay
[ 179.4] Checking if the guest needs BIOS or UEFI to boot
[ 179.4] Assigning disks to buses
[ 179.4] Copying disk 1/1 to /vmhost/dev/dev-test01/centos-dev-test01-v2v-sda (qcow2)
(100.00/100%)
[ 216.1] Creating output metadata
[ 216.1] Finishing off
```

导入完成后在 /vmhost/dev/dev-test01 目录下会生成文件

```
[root@clsn7 dev-test01]# pwd
/vmhost/dev/dev-test01
[root@clsn7 dev-test01]# ls
centos-dev-test01-v2v-sda centos-dev-test01-v2v.xml
```

修改网卡配置

修改网卡source network 为桥接

修改网卡使用virtio

```
[root@clsn7 dev-test01]# cat centos-dev-test01-v2v.xml
xml version='1.0' encoding='utf-8'>
```

```

<domain type='kvm'>

  <name>centos-dev-test01-v2vname</name>
  <memory unit='KiB'>524288memory</memory>
  <currentMemory unit='KiB'>524288currentMemory</currentMemory>
  <vcpu>1vcpu</vcpu>
  <features>
    <acpi/>
    <apic/>
  features>
  <os>
    <type arch='x86_64'>hvmtype>
  os>
  <on_poweroff>destroyon_poweroff</on_poweroff>
  <on_reboot>restarton_reboot</on_reboot>
  <on_crash>restarton_crash</on_crash>
  <devices>
    <disk type='file' device='disk'>
      <driver name='qemu' type='qcow2' cache='none' />
      <source file='/vmhost/dev/dev-test01/centos-dev-test01-v2v-sda' />
      <target dev='vda' bus='virtio' />
    disk>
    <disk device='cdrom' type='file'>
      <driver name='qemu' type='raw' />
      <target dev='hda' bus='ide' />
    disk>
    <disk device='floppy' type='file'>
      <driver name='qemu' type='raw' />
      <target dev='fda' />
    disk>

    <video>
      <model type='qxl' ram='65536' heads='1' />
    video>
    <graphics type='vnc' autoport='yes' port='-1' />
    <input type='tablet' bus='usb' />
    <input type='mouse' bus='ps2' />
    <console type='pty' />
  devices>
domain>

```

1.1.4 启动虚拟机

导入主机

```
[root@clsn7 dev-test01]# virsh define centos-dev-test01-v2v.xml
```

定义域 centos-dev-test01-v2v (从 centos-dev-test01-v2v.xml)

查看主机列表

```
[root@clsn7 dev-test01]# virsh list --all
Id      名称                                状态
-----
-       centos-dev-test01-v2v              关闭
```

启动主机

```
[root@clsn7 dev-test01]# virsh start centos-dev-test01-v2v
域 centos-dev-test01-v2v 已开始
```

1.1.5 测试可用性

登陆迁移后的虚拟机测试

```
[root@clsn7 ~]# ssh root@192.168.19.123
The authenticity of host '192.168.19.123 (192.168.19.123)' can't be established.
RSA key fingerprint is SHA256:iRmghFzgRIJy5+v8p4lqi8DyUG8F0hXR/qNdZ2J6RY.
RSA key fingerprint is MD5:37:b8:56:3b:b7:85:fa:cb:d9:55:a7:44:d5:de:f8:d9.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '192.168.19.123' (RSA) to the list of known hosts.
root@192.168.19.123's password:
Last login: Mon Mar  5 10:30:02 2018 from 192.168.19.9
[root@dev-test01 ~]# hostname -I
192.168.19.123
```

设置虚拟机开机自启动。

```
[root@clsn7 ~]# virsh autostart centos-dev-test01-v2v
域 centos-dev-test01-v2v标记为自动开始
```

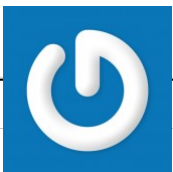
至此一台机器的迁移完成，后续按照相同的方式将其他的虚拟机进行迁移即可。

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如无特殊说明，文章均为本站原创，转载请注明出处

- 转载请注明来源：ESXI 迁移至KVM (V2V迁移)
- 本文永久链接地址：<https://www.nmtui.com/clsn/lx15.html>

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