

Kylin Linux Advanced Server

V10 安装 KVM + Web

安装环境

安装步骤

包名	安装命令	说明
qemu-kvm	qemu-kvm	KVM 核心
qemu-img	qemu-img	磁盘镜像工具
libvirt	libvirt	虚拟机管理工具
libvirt-client	libvirt-client	libvirt 客户端
virt-install	virt-install	虚拟机安装工具
bridge-utils	bridge-utils	网络桥接工具
iproute	iproute	网络配置工具
Web 界面	cockpit + cockpit-machines	Web 管理界面
virt-manager	virt-manager	图形化虚拟机管理工具

安装命令

安装命令

安装命令 Kylin V10 安装

```
# 安装 KVM + Cockpit 环境
mkdir -p /opt/kvm-offline

# 安装 KVM + Cockpit 环境
yum install --downloadonly --downloadaddir=/opt/kvm-offline \
    qemu-kvm \
    qemu-kvm-tools \
```

```
qemu-img \  
libvirt \  
libvirt-client \  
libvirt-python \  
virt-install \  
bridge-utils \  
iproute \  
cockpit \  
cockpit-machines \  
cockpit-networkmanager \  
cockpit-storaged \  
cockpit-packagekit \  
virt-viewer
```



--downloadonly



```
yum install yum-plugin-downloadonly
```



/opt/kvm-offline



```
tar czf kvm-offline.tar.gz -C /opt kvm-offline  
#   
tar xzf kvm-offline.tar.gz -C /opt
```



```
# 1. 检查 CPU 是否支持vmx 或 svm 指令  
egrep -c '(vmx|svm)' /proc/cpuinfo  
  
# 2. 检查 KVM 是否支持BIOS 启动 VT-x/AMD-V  
lsmod | grep kvm  
  
# 3. 检查系统  
cat /etc/kylin-build  
#   
cat /etc/os-release
```

--	--	--	--	--	--	--	--

YUM

```
# 1. 创建 Kylin V10 的 ISO 镜像
mkdir -p /mnt/kylin-iso
mount -o loop Kylin-Server-10.iso /mnt/kylin-iso
```

```
# 2. 备份
mkdir -p /etc/yum.repos.d/bak
mv /etc/yum.repos.d/*.repo /etc/yum.repos.d/bak/
```

```
# 3. 配置 ISO 源

cat > /etc/yum.repos.d/local-iso.repo << 'EOF'

[local-iso]

name=Kylin V10 Local ISO

baseurl=file:///mnt/kylin-iso

enabled=1

gpgcheck=0

EOF
```

```
# 4. 创建 KVM 仓库
cat > /etc/yum.repos.d/kvm-offline.repo << 'EOF'
[kvm-offline]
name=KVM Offline Packages
baseurl=file:///opt/kvm-offline
enabled=1
gpgcheck=0
EOF
```

```
# 5. 清理缓存
yum clean all
yum makecache
```

```
yum install createrepo
cd /opt/kvm-offline && createrepo .
```



KVM



```
# 安装 KVM 软件包
yum install -y qemu-kvm qemu-img libvirt libvirt-client virt-install bridge-utils

# 启动 libvirtd 服务
systemctl start libvirtd
systemctl enable libvirtd

# 验证
virsh --version
virsh list --all
```



Cockpit Web



```
# 安装 Cockpit 软件包
yum install -y cockpit cockpit-machines cockpit-networkmanager cockpit-storaged

# 启动 Cockpit
systemctl start cockpit.socket
systemctl enable cockpit.socket

# 开放 9090 端口
firewall-cmd --permanent --add-port=9090/tcp
firewall-cmd --reload
```

Cockpit

9090

https://[redacted]IP:9090

root

"Virtual Machines"

-  /  /  / 
-  VNC 
-  CPU 
- 

--	--	--	--



```
# nmcli connection show eth0 ip addr nmcli connection show

# nmcli connection add type bridge con-name br0 ifname br0

# nmcli connection add type bridge-slave con-name br0-port1 ifname eth0 master br0

# nmcli connection modify br0 ipv4.method manual \
    ipv4.addresses 192.168.1.10/24 \
    ipv4.gateway 192.168.1.1 \
    ipv4.dns 192.168.1.1

# nmcli connection down eth0
nmcli connection up br0
```

[illegible]



Cockpit Web



- 1.
- 2. →
- 3. ISO
- 4. CPU
- 5. br0 NAT
- 6. Web



```
#  ISO  /var/lib/libvirt/images/

# 2/4G/40G 

virt-install \
  --name kylin-vm01 \
  --ram 4096 \
  --vcpus 2 \
  --disk path=/var/lib/libvirt/images/kylin-vm01.qcow2,size=40,format=qcow2 \
  --cdrom /var/lib/libvirt/images/Kylin-Server-10.iso \
  --network bridge=br0 \
  --graphics vnc,listen=0.0.0.0,port=5901 \
  --os-type linux \
  --os-variant kylin10
```



```
# KVM 

lsmod | grep kvm

# libvirt 
```

```
systemctl status libvirtd
```

```
# Cockpit
```

```
systemctl status cockpit.socket
```

```
#
```

```
virsh net-list --all
```

```
#
```

```
virsh pool-list --all
```

```
#
```

```
virsh list --all
```



<pre>virsh list</pre> <pre>permission denied</pre>	<pre>libvirt</pre> <pre>usermod -aG libvirt root</pre>
Cockpit " " "	<pre>yum install cockpit-machines</pre>
Web	<pre>qemu-kvm-common</pre> <pre>--graphics vnc</pre>
	<pre>yum deplist</pre> <pre>base</pre>
	NAT <pre>virsh net-start default</pre> br0

ISO

Cockpit

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