QEMU \ KVM

Проверяем SELinux

```
root@l4zzur-VirtualBox:/home/l4zzur# getenforce
Disabled
```

Устанавливаем пакеты

```
root@l4zzur-VirtualBox:/home/l4zzur# apt install qemu-kvm
Reading package lists... Done
Building dependency tree
Reading state information... Done
root@l4zzur-VirtualBox:/home/l4zzur# apt-get install virtinst
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

Демон виртуализации работает

```
libvirtd.service - Virtualization daemon
    Loaded: loaded (/lib/systemd/system/libvirtd.service; enabled; vendor pre>
    Active: active (running) since Wed 2022-03-23 16:21:07 EET; 2min 50s ago
TriggeredBy: libvirtd.socket
    libvirtd-admin.socket
    libvirtd-ro.socket
```

Поддержка виртуализации включена

```
l4zzur@l4zzur-VirtualBox:~$ cat /proc/cpuinfo | egrep "(vmx|svm)"
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
pat pse36 clflush mmx fxsr sse sse2 ht syscall nx rdtscp lm constant_tsc rep_goo
d nopl xtopology nonstop_tsc cpuid tsc_known_freq pni pclmulqdq vmx ssse3 cx16 p
cid sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx rdrand hypervisor lahf_lm ab
m invpcid_single pti tpr_shadow vnmi flexpriority vpid fsgsbase avx2 invpcid md_
clear flush_l1d
vmx flags : vnmi flexpriority tsc_offset vtpr vapic
```

Дописываем параметр и обновляем

```
net.ipv4.ip_forward=1
root@l4zzur-VirtualBox:/home/l4zzur# sysctl -p /etc/sysctl.d/99-sysctl.conf
net.ipv4.ip_forward = 1
root@l4zzur-VirtualBox:/home/l4zzur#
```

Перезапускаем службу

```
root@l4zzur-VirtualBox:/home/l4zzur# systemctl restart libvirtd
root@l4zzur-VirtualBox:/home/l4zzur# systemctl status libvirtd

libvirtd.service - Virtualization daemon
    Loaded: loaded (/lib/systemd/system/libvirtd.service; enabled; vendor pres>
    Active: active (running) since Wed 2022-03-23 18:31:29 EET; 5s ago

TriggeredBy: libvirtd-ro.socket
    libvirtd-admin.socket
```

```
root@l4zzur-VirtualBox:~# ls /iso

centos

VirtualBox-6.1.30-148432-Win.exe

linuxmint-20.2-mate-64bit.iso

win10_21H2_Russian_x64.iso

root@l4zzur-VirtualBox:~# mkdir /kvm

root@l4zzur-VirtualBox:~# cd /kvm

root@l4zzur-VirtualBox:/kvm# mkdir iso

root@l4zzur-VirtualBox:/kvm# mkdir images

root@l4zzur-VirtualBox:/kvm# cd

root@l4zzur-VirtualBox:~# cd /kvm/iso/

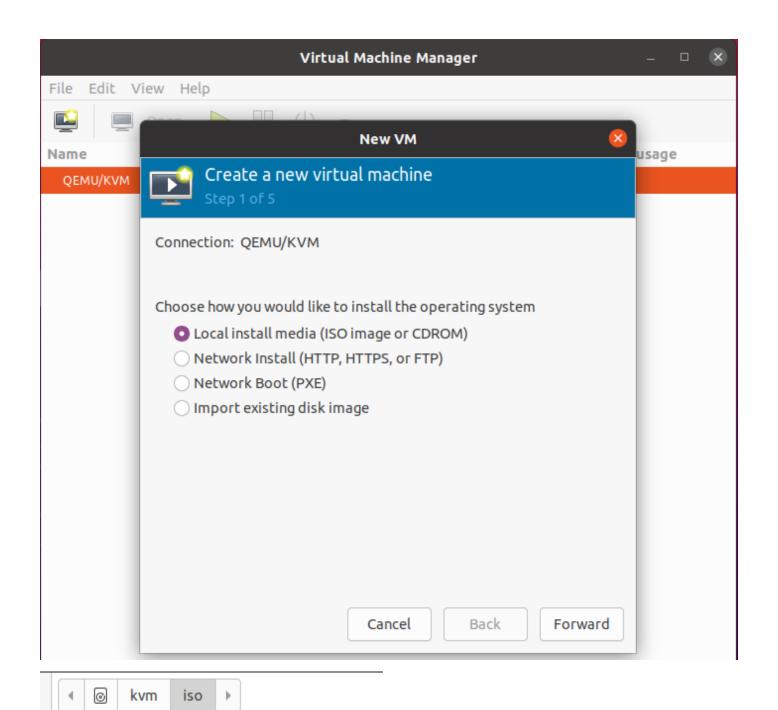
root@l4zzur-VirtualBox:/kvm/iso# mv /iso/centos /iso/centos.iso

root@l4zzur-VirtualBox:/kvm/iso# cp /iso/centos.iso .

root@l4zzur-VirtualBox:/kvm/iso# cp /iso/centos.iso .
```

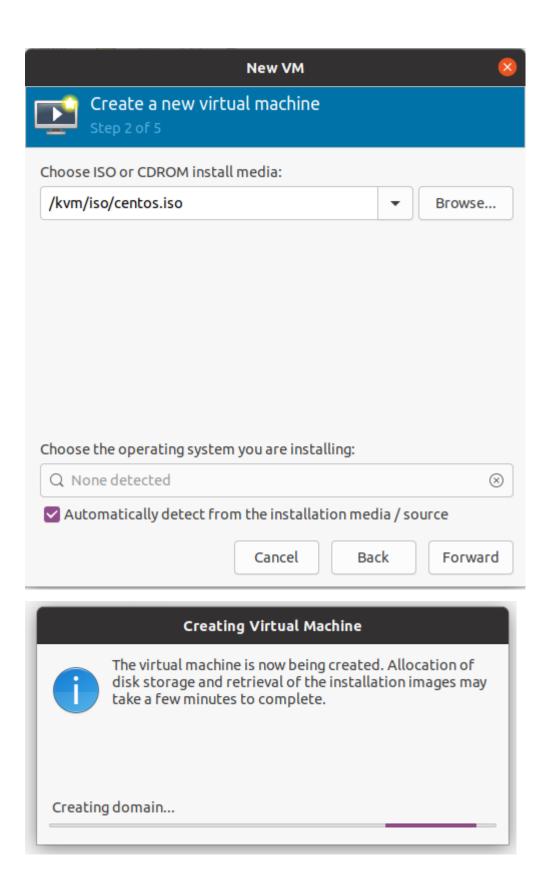
GUI для виртуальных машин

```
root@14zzur-VirtualBox:/kvm/iso# apt install virt-manager
Reading package lists... Done
Building dependency tree
Reading state information... Done
virt-manager is already the newest version (1:2.2.1-3ubuntu2.1).
0 upgraded, 0 newly installed, 0 to remove and 208 not upgraded.
root@14zzur-VirtualBox:/kvm/iso#
```



Name

centos.iso



```
root@l4zzur-VirtualBox:/home/l4zzur# virt-install -n test --noautoconsole --net work=bridge:virbr0 --ram 1024 --arch=x86_64 --vcpus=1 --cpu host --check-cpu --disk path=/disk2/kvm/images/disk.img,size=5 --cdrom /disk2/kvm/iso/centos.iso --graphics vnc,listen=0.0.0.0,password=1234 --os-type linux --os-variant=centos-stream8 --boot=cdrom,hd,menu=on
WARNING Requested memory 1024 MiB is less than the recommended 1536 MiB for OS centos-stream8

Starting install...
Allocating 'disk.img'

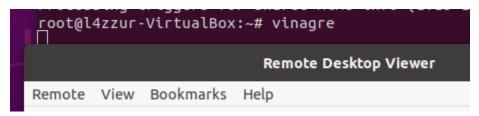
| 5.0 GB 00:00:00

Domain installation still in progress. You can reconnect to the console to complete the installation process.
root@l4zzur-VirtualBox:/home/l4zzur# virsh vncdisplay test:0
```

Открываем порт 5900

```
root@l4zzur-VirtualBox:~# firewall-cmd --permanent --add-port=5900/tcp success
```

Используем клиент vinagre





Processing triggers for initramfs-tools (0.136ubuntu6.6) ...
update-initramfs: Generating /boot/initrd.img-5.13.0-30-generic
root@14zzur-VirtualBox:~# firewall-cmd --add-service cockpit
success

root@l4zzur-VirtualBox:~# systemctl enable --now cockpit.socket

Cockpit работает

