

# Qemu x86/64

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## Abstract

Installation and running of x86/64 VMs.

Download Alpine ISO, and save it to the file. Make empty Linux disk for a VM:

```
# ./mkdisk_20G linux.disk  
qemu-img create -f qcow2 $1 20G
```

Then:

```
# ./install_x8664 linux.disk  
qemu-system-x86_64 \  
-drive file=$1,format=qcow2 \  
-m 2048 \  
-netdev user,id=net0 \  
-device e1000,netdev=net0 \  
-netdev user,id=net1 \  
-device e1000,netdev=net1 \  
-boot d -cdrom /Users/wk/Downloads/alpine-extended-3.19.1-x86_64.iso
```

You should see terminal and then proceed with the installation. Once you're done:

```
poweroff
```

Now to run the VM;

```
# run.sh linux.disk
```

```
qemu-system-x86_64 \  
-drive file=$1,format=qcow2 \  
-m 1500 \  
-netdev user,id=net0,hostfwd=tcp:127.0.0.1:9022-:22 \  
-device e1000,netdev=net0 \  

```

```
-netdev vmnet-shared,id=net1 \  
-device e1000,netdev=net1 \  
-virtfs local,path=`pwd`,mount_tag=osxfs,security_model=passthrough
```