

# OpenBSD virtualization

## OpenBSD 6.7

### Setup

/etc/rc.conf.local

```
apmd_flags="-A"  
dhcpd_flags=vether0  
vmd_flags=  
ntpd_flags="-s"
```

### /etc/hostname.vether0

```
inet 192.168.30.1 255.255.255.0 NONE
```

### /etc/dhcpd.conf

```
# Network:      192.168.11.0/255.255.255.0  
# Domain name:  vmm.local  
# Name servers: 192.168.11.1  
# Default router: 192.168.11.1  
# Addresses:    192.168.30.100 - 192.168.30.200  
  
shared-network VMM-LOCAL {  
    subnet 192.168.30.0 netmask 255.255.255.0 {  
        range 192.168.30.100 192.168.30.200;  
  
        option subnet-mask 255.255.255.0;  
        option broadcast-address 192.168.30.255;  
        option routers 192.168.30.1;
```

```
    option domain-name-servers 192.168.11.1;

#    host vm1 {
#        hardware ethernet 00:20:91:00:00:01;
#        fixed-address vm1.vmm.local;
#    }
}
```

## /etc/sysctl.conf

```
net.inet.ip.forwarding=1
```

## /etc/pf.conf

```
set skip on lo

block return    # block stateless traffic
pass           # establish keep-state

# By default, do not permit remote connections to X11
block return in on ! lo0 proto tcp to port 6000:6010

ext_if="em0"
int_if="{ vether0 tap0 }"
set block-policy drop
set loginterface egress
match in all scrub (no-df random-id max-mss 1440)
match out on egress inet from !(egress:network) to any nat-to (egress:0)
pass out quick inet
pass in on $int_if inet
pass in on egress inet proto tcp from any to (egress) port 22
```

## /etc/vm.conf

```
switch "local" {  
  
    add vether0  
    add tap0  
  
}  
  
vm "vm1.vm" {  
    memory 512M  
    kernel "/bsd.rd"  
    disk "/vmm/vm1.img"  
    interface {  
        switch "local"  
        lladdr 00:20:91:00:00:01  
    }  
}
```

# Commands

```
vmmctl status
```

```
vmctl console 1  
cu /dev/tty0
```

```
vmctl create /vmm/vm1.img -s 500M  
vmctl start -c -b /bsd.rd -m 512M -i 1 -d /vmm/vm1.img
```

```
# X11 Forwarding  
ssh -Y vm programname
```

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