FreeBSD Jails - Part IV

Man Pages
```
jail.conf(5), zfs-jail, zfs-unjail(8)
jail(8),jexec(8),nullfs(5),fusefs(5)
procfs(5)
```

Kernel Module Parameters

Kernel module can add their parameters, this happens only when module is loaded, module specific parameters are as below:

`allow.mount.`

fusefs
linsysfs
linprocfs
procfs
fdescfs
tmpfs
nullfs
zfs

As of `14.0-RELEASE`, support is added for running NFS server in VNET jail.

Privileged users inside the jail can mount these file systems, This permission only effective together with allow.mount and when enforce_statfs is set to value lower than 2.

As of `14.0-RELEASE`, jail(8) now support `.include` directive in jail.conf(5)

`allow.vmm`
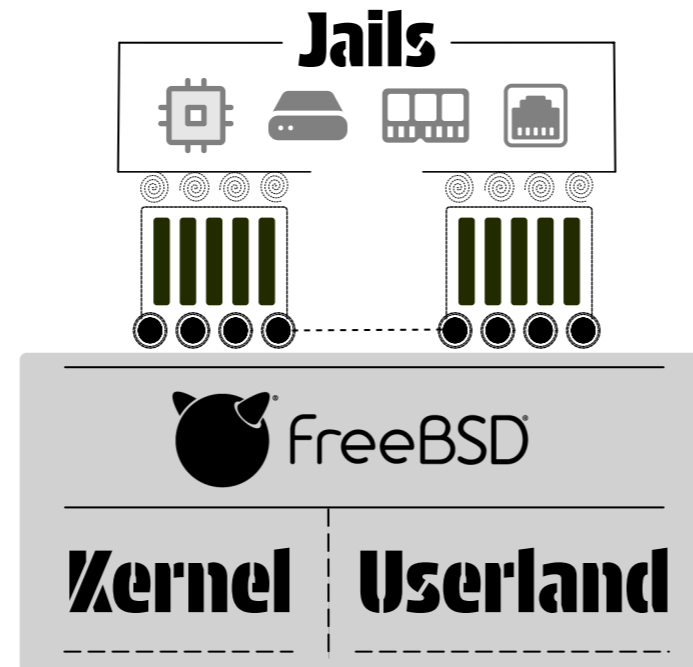jail can access vmm(4), this flag is only available if the vmm(4) kernel module is loaded

Jails

FreeBSD

Kernel | Userland

Jail Host

Prepare Host Environment

Services which binds to all ip address on host should be trimmed down to single ip address to avoid conflicts

SSH /etc/ssh/sshd_config
ListenAddress <specific ipAddress>
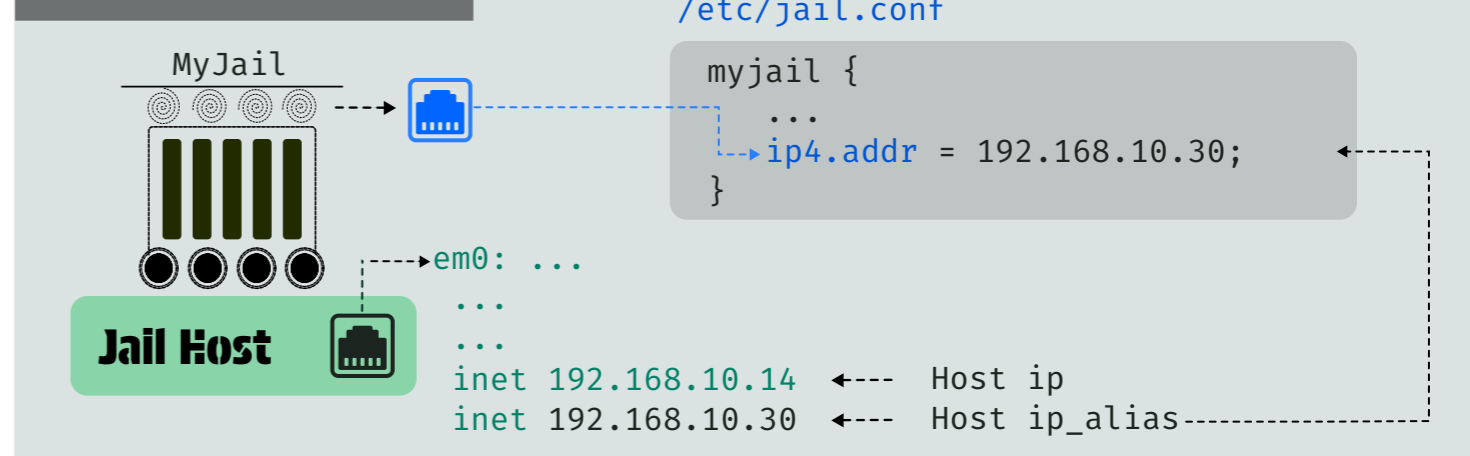
inetd /etc/rc.conf
inetd_flags="-wW -a <ipAddress>"
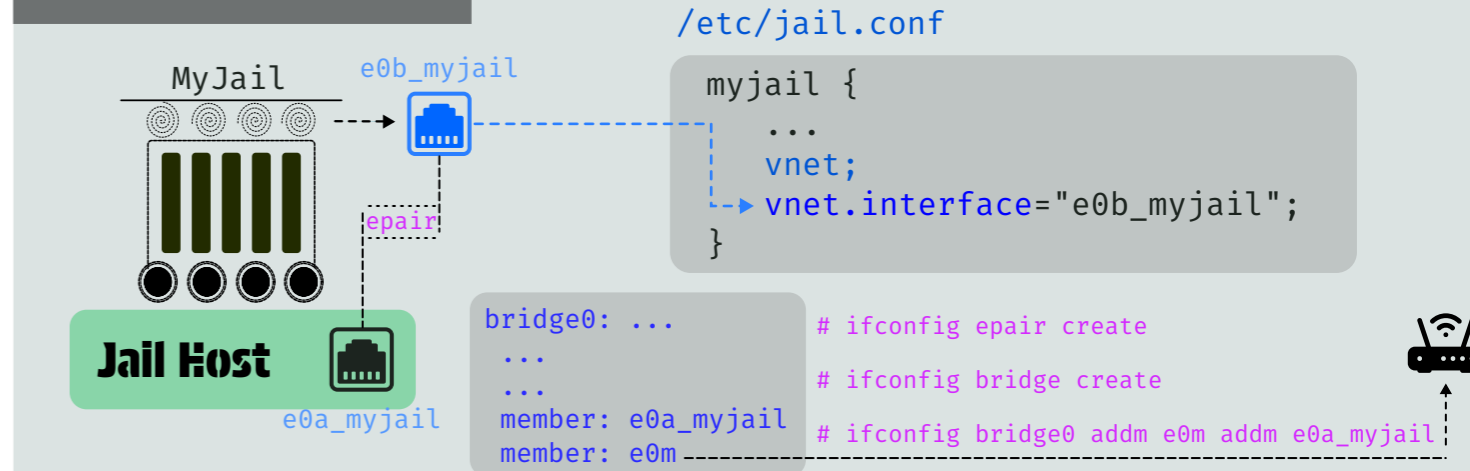
sendmail /etc/rc.conf
sendmail_enable="NO"

`linux`
determins how jails linux emulation appears.

Jail Networking

Shared Networking

MyJail

Jail Host

/etc/jail.conf
```
myjail {
    ...
    ip4.addr = 192.168.10.30;
}
```

```
em0: ...
 ...
 ...
inet 192.168.10.14  <--- Host ip
inet 192.168.10.30  <--- Host ip_alias
```

Dedicated Networking

MyJail

e0b_myjail

Jail Host

e0a_myjail

epair

/etc/jail.conf
```
myjail {
    ...
    vnet;
    vnet.interface="e0b_myjail";
}
```

```
bridge0: ...          # ifconfig epair create
 ...                  # ifconfig bridge create
 ...                  # ifconfig bridge0 addm e0m addm e0a_myjail
 member: e0a_myjail
 member: e0m
```

`sysvmsg sysvsem sysvshm`
possible values are inherit, new and disable

`linux.osrelease`
`linux.osname`
`linux.oss_version`
These parameters associated with jail and are self explanatory on what they do.