

FreeBSD - Jails Part-II

Method-1 to install jail

1 # bsdinstall jail /jail/testjail

2

Distribution Select

lib32_dbg lib32 src

ports test

- Checksum verification 3
- base.txz extraction 4
- Set root password 5

6

System Configuration

local_unbound sshd moused

dumpdev powerd ntpd

- Add User Accounts 7

Man Pages

jail(8), jexec(8),
jls(8), jail.conf(5)
jail(2)

References : [FreeBSD handbook - chapter 17](#)

8 jail.conf example

```
path="/jail/$name";
host.hostname="$name"

testjail {
  ipv4.addr = 192.168.10.10;
  exec.start = "/bin/sh /etc/rc";
  exec.stop = "/bin/sh /etc/rc.shutdown";
  exec.clean;
}
```

Common config such as this can be mentioned globally like path and host.hostname

```
path="/jail/$name";
host.hostname="$name"

exec.start = "/bin/sh /etc/rc";
exec.stop = "/bin/sh /etc/rc.shutdown";
exec.clean;

testjail {
  ipv4.addr = 192.168.10.10;
}
```

```
Enable jail in rc.conf
# sysrc jail_enable="yes"

Start the jail
# service jail start testjail
```

Core parameters... continued from part-1

children.max

The number of child jails allowed to be created by this jail, default value is 0 means no child jails allowed

persist

This parameter allows a jail to exist without processes

parent

jid of the parent of this jail, 0 if this is top level jail

children.cur

Number of decedents of this jail, including it's own child jail or any other jail created under them

cpuset.id

Id of cpuset associated with this jail

osrelease

The string for the jail's kern.osrelease sysctl and uname -r

enforce_statsfs

Determines what information processes in a jail able to get about mountpoints, available options are 0,1,2

dying

This is true if the jail in the process of shutting down

osreldate

The number for the jail's kern.osreldate sysctl and uname -K

Method-2 to install jail

1 # fetch https://<url>/base.txz

https://download.freebsd.org/ftp/releases/amd64/amd64/13.2-RELEASE/base.txz

2 # tar -xf base.txz -C /jail/testjail

3 Copy /etc/resolv.conf and /etc/localtime in jails /etc directory

/jail/testjail/etc/

4 Follow same procedure from 8