

Chap25 Solutions

In-Chapter Exercises

1. No answer required.

2. Use the command **iocage create -c tag=somename**

On our system, the new jail occupied approx. 700K bytes of space.

3. Use the command **iocage set boot=on somename**

4. Do the following steps-

Preliminaries: We did this on a PC-BSD TrueOS system, with one network adapter in it.

Also, on our network, the router automatically assigns IP addresses via DHCP.

We previously fetched and installed iocage 10.2, version 1.7.3.

a. First, use the **ifconfig** command on the host to determine the default interface and its IP.

On our system, the interface was bge0, and the IP was 192.168.0.8 for this interface.

So, we want to create an aliased IP on that interface in the same subnet 192.168.0, say 192.168.0.100.

b. On the host command line use this **ifconfig** command:

ifconfig bge0 192.168.0.100 alias

c. Or put the following line in your /etc/rc.conf file, substituting your default interface name for bge0, and then restart the computer:

ifconfig_bge0_alias="inet 192.168.0.100"

d. Next, create an iocage jail with a tag injail and an IP of 192.168.0.100:

iocage create tag=injail ip4_addr="bge0|192.168.0.100"

e. Start the jail:

iocage start injail

f. Get into a console on the jail:

iocage console injail

g. In the jail create a new **user** with a password using the **adduser** command.

You can pretty much accept all of the defaults presented by **adduser**.

Then execute a <Ctrl><D> to exit the jail.

h. At the host, execute the following command to restart the network interface:

service netif restart

i. At the host, restart the jail:

iocage restart injail

j. Get into a console on the jail:

iocage console injail

j. Start the ssh daemon for one time:

service sshd onestart

l. Then execute the following command in the jail so that sshd always starts at jail startup:

echo 'sshd_enable="TRUE"' >> /etc/rc.conf

m. Then execute a <Ctrl><D> to exit the jail.

n. Finally, on the host you can make sure the jail injail starts at every system boot by executing:

iocage boot=on injail

o. Now you can use the command -

ssh user@192.168.0.100

to ssh to the jail from the host, or from other devices on the network. You can also now ssh from the jail to the host, or to other devices on your LAN, or the Internet.

Notes: At step b. or c, you can specify the subnet mask for the alias as something other than the subnet mask of the default interface, but even though we didn't do this, and got an error message at step h, this didn't prevent the whole scheme from working.

5. No answer required.
6. No answer required.
7. No answer required.
8. No answer required.
9. No answer required.
10. No answer required.
11. No answer required.