

FreeNAS - Bug #53334

Correctly add bpf to devfs rules

10/23/2018 12:11 PM - Sebastien DURIS

Status: Done	
Priority: No priority	
Assignee: Brandon Schneider	
Category: Middleware	
Target version: 11.2-U2	
Seen in: 11.2-RC2	Needs Merging: No
Severity: New	Needs Automation: No
Reason for Closing:	Support Suite Ticket: n/a
Reason for Blocked:	Hardware Configuration:
Needs QA: No	ChangeLog Required: No
Needs Doc: No	
Description	
<p>Hi,</p> <p>i have 3 openvpn jails (2 clients and 1 server) and a dnsmasq jail.</p> <p>since upgrade :</p> <ul style="list-style-type: none">- openvpn jails, openvpn can't allocate tun devices- dnsmasq can't find bpf devices <p>i tried to modify options like allow mounts, devfs mount and so on, no result</p> <p>since all was working in beta3, i had to roll back</p> <p>i attached some jails config files for example</p> <p>thanks in advance</p>	
Related issues:	
Related to FreeNAS - Bug #40872: Add ability to allocate TUN devices dynamica...	Done
Has duplicate FreeNAS - Bug #58374: [RC2] after update devices STILL unavalia...	Closed

History

#1 - 10/23/2018 12:19 PM - Dru Lavigne

- Assignee changed from Release Council to William Grzybowski
- Private changed from No to Yes

#3 - 10/24/2018 09:52 AM - William Grzybowski

- Assignee changed from William Grzybowski to Brandon Schneider
- Target version changed from Backlog to 11.2-RC2

#4 - 10/24/2018 03:23 PM - Brandon Schneider

- Status changed from Unscreened to Not Started

#5 - 10/31/2018 10:54 PM - Brandon Schneider

- Related to Bug #40872: Add ability to allocate TUN devices dynamically in iocage added

#6 - 10/31/2018 10:55 PM - Brandon Schneider

- Status changed from Not Started to Closed
- Reason for Closing set to Duplicate Issue

Marking as duplicate as this behavior was also fixed as a result of [#40872](#).

#7 - 11/01/2018 03:51 AM - Dru Lavigne

- File deleted (config_files.zip)

#8 - 11/01/2018 03:52 AM - Dru Lavigne

- Target version changed from 11.2-RC2 to N/A
- Private changed from Yes to No

#9 - 11/18/2018 11:08 AM - Sebastien DURIS

- Seen in changed from 11.2-RC1 to 11.2-RC2

problem still in 11.2-RC2 :

- my DHCP server jail has no BPF in /dev
- my openvpn server failing again with no tun
- my 2 openVPN clients failing again with no tun

#10 - 11/19/2018 03:50 AM - William Grzybowski

Sebastien DURIS wrote:

problem still in 11.2-RC2 :

- my DHCP server jail has no BPF in /dev
- my openvpn server failing again with no tun
- my 2 openVPN clients failing again with no tun

did you delete the jail and install a new one?

#11 - 11/19/2018 04:32 AM - Sebastien DURIS

I tried to make a new one for each.

Nb : I updated freenas... Currently trying on a fresh install on a vm

#12 - 11/19/2018 07:09 AM - Dru Lavigne

- Related to Bug #58374: [RC2] after update devices STILL unavaliabile in jails added

#13 - 11/19/2018 07:10 AM - Dru Lavigne

- Related to deleted (Bug #58374: [RC2] after update devices STILL unavaliabile in jails)

#14 - 11/19/2018 07:10 AM - Dru Lavigne

- Has duplicate Bug #58374: [RC2] after update devices STILL unavaliable in jails added

#15 - 11/19/2018 03:36 PM - Paul Bolton

- File debug-freenas-20181119232821.tgz added

Sebastien DURIS wrote:

I tried to make a new one for each.

Nb : I updated freenas... Currently trying on a fresh install on a vm

Just to add to this, I'm also still having this "Cannot allocate TUN/TAP dev dynamically" issue when starting OpenVPN on 11.2 RC2. It seems to be fixed for some people but the update hasn't helped for me. I've run set allow_tun=1 for the jail and checked it's set before starting but still no luck, also rebuilt the jail again in 11.2 RC2 which I originally created in 11.2 RC1.

Also tried to run ifconfig tun0 create and get an "Operation not permitted" error message.

I assume we may both be having the same issue, I've attached my debug file in case it's useful. I have a couple of jails I was trying to get the VPN working in and the latest one is called "Transmission-VPN".

#16 - 11/19/2018 03:55 PM - Brandon Schneider

Paul: You must set vnet=on for that to work.

#17 - 11/19/2018 11:44 PM - Paul Bolton

Brandon Schneider wrote:

Paul: You must set vnet=on for that to work.

Ah ok, I figured I may just be missing something. I'll test it later today.

I wonder if this is a step that Sebastien missed as well.

#18 - 11/20/2018 12:21 AM - Dru Lavigne

- File deleted (debug-freenas-20181119232821.tgz)

#19 - 11/20/2018 04:58 AM - Sebastien DURIS

so :

test on a VM with fresh install :

- openvpn can work

- i updated all jails from 11.2-RELEASE-P2 to P4 via iocage upgrade <jail>, upgrade on gui fail even if i iocage do iocage upgrade, version stay in p2

- i fixed my openvpn server adress and relaunch my vpn server, it connects well

2nd problem still fail :

- dnsmasq - my dhcp server - not

root@infra:~ # service dnsmasq start

Starting dnsmasq.

dnsmasq: cannot create DHCP BPF socket: No such file or directory

/usr/local/etc/rc.d/dnsmasq: WARNING: failed to start dnsmasq

no bpf device come if the jail is not a dhcp client (i can't declare a dhcp server as a dynamic adresssing)

#20 - 11/20/2018 05:50 AM - Brandon Schneider

Sebastien: Make sure the jail has bpf=yes and vnet=on. Those are required for bpf device usage in a jail.

#21 - 11/20/2018 06:32 AM - Sebastien DURIS

tags are ok, here my jail config : {

```
"CONFIG_VERSION": "14",
"allow_chflags": "0",
"allow_mlock": "0",
"allow_mount": "1",
"allow_mount_devfs": "1",
"allow_mount_nullfs": "0",
"allow_mount_procsfs": "0",
"allow_mount_tmpfs": "0",
"allow_mount_zfs": "0",
"allow_quotas": "0",
"allow_raw_sockets": "1",
"allow_set_hostname": "1",
"allow_socket_af": "1",
"allow_sysvipc": "0",
"allow_tun": "1",
"available": "readonly",
"basejail": "no",
"boot": "on",
"bpf": "yes",
"children_max": "0",
"cloned_release": "11.2-RELEASE-p2",
"comment": "none",
"compression": "lz4",
"compressratio": "readonly",
"coredumpsize": "off",
"count": "1",
"cpuset": "off",
"cpulimit": "off",
"datasize": "off",
```

```
"dedup": "off",
"defaultrouter": "192.168.1.1",
"defaultrouter6": "none",
"depends": "none",
"devfs_ruleset": "4",
"dhcp": "off",
"enforce_stats": "1",
"exec_clean": "1",
"exec_fib": "0",
"exec_jail_user": "root",
"exec_poststart": "/usr/bin/true",
"exec_poststop": "/usr/bin/true",
"exec_prestart": "/usr/bin/true",
"exec_prestop": "/usr/bin/true",
"exec_start": "/bin/sh /etc/rc",
"exec_stop": "/bin/sh /etc/rc.shutdown",
"exec_system_jail_user": "0",
"exec_system_user": "root",
"exec_timeout": "60",
"host_domainname": "none",
"host_hostname": "infra",
"host_hostuuid": "infra",
"host_time": "yes",
"hostid": "602e5043-a7bc-11e8-80d1-f8db88fe03e8",
"hostid_strict_check": "off",
"interfaces": "vnet0:bridge0",
"ip4": "new",
"ip4_addr": "vnet0|192.168.1.10/24",
"ip4_saddrsel": "1",
"ip6": "new",
"ip6_addr": "none",
"ip6_saddrsel": "1",
"jail_zfs": "off",
"jail_zfs_dataset": "iocage/jails/infra/data",
"jail_zfs_mountpoint": "none",
"last_started": "2018-11-20 14:28:08",
"login_flags": "-f root",
"mac_prefix": "02ff60",
"maxproc": "off",
"memorylocked": "off",
"memoryuse": "off",
"mount_devfs": "1",
"mount_fdescfs": "1",
"mount_linprocfs": "0",
"mount_procfs": "1",
"mountpoint": "readonly",
"msgqueued": "off",
"msgsize": "off",
"nmsgq": "off",
"notes": "none",
"nsemop": "off",
"nshm": "off",
"nthr": "off",
"openfiles": "off",
"origin": "readonly",
"owner": "root",
"pcpu": "off",
"priority": "1",
"pseudoterminals": "off",
"quota": "none",
"release": "11.2-RELEASE-p2",
"reservation": "none",
"resolver": "/etc/resolv.conf",
"rlimits": "off",
"securelevel": "2",
"shmsize": "off",
"stacksize": "off",
"stop_timeout": "30",
"swapuse": "off",
"sync_state": "none",
"sync_target": "none",
"sync_tgt_zpool": "none",
"sysvmsg": "new",
"sysvsem": "new",
"sysvshm": "new",
```

```
"template": "no",
"type": "jail",
"used": "readonly",
"vmemoryuse": "off",
"vnet": "on",
"vnet0_mac": "02ff60b2c78d,02ff60b2c78e",
"vnet1_mac": "none",
"vnet2_mac": "none",
"vnet3_mac": "none",
"vnet_default_interface": "none",
"vnet_interfaces": "none",
"wallclock": "off"
}
```

if i set my DHCP server jail with dhcp=on and i start my ISP router DHCP server to bind address, bpf device file is spawned at jail's start and dnsmasq start (that's not the target configuration but i wanted to test)

#22 - 11/20/2018 07:19 AM - Brandon Schneider

You don't need dhcp=on, that's for the jail to get a DHCP address, you're handing out DHCP addresses.

#23 - 11/20/2018 07:25 AM - Sebastien DURIS

that was the only way to make the bpf device available, it was only for a test purpose.

meanwhile as a workaround i fixed all my jails ip addresses and returned my ISP router DHCP ON, i really need your help to go back to a nominal situation.

even on a fresh install VM and jail, the same problem occurs

i tried also another package to provide dhcp (isc-dhcp), the same ...

#24 - 11/20/2018 07:41 AM - Brandon Schneider

- Subject changed from [RC1] after update devices unavailable in jails to bpf device is not created when dhcp is not specified
- Status changed from Closed to In Progress
- Target version changed from N/A to 11.2-U2
- Reason for Closing deleted (Duplicate Issue)

#25 - 11/20/2018 08:03 AM - Brandon Schneider

PR: <https://github.com/freenas/iocage/pull/101>
STABLE PR: <https://github.com/freenas/iocage/pull/102>

#26 - 11/20/2018 11:13 AM - Brandon Schneider

- Needs QA changed from Yes to No

#28 - 11/21/2018 05:03 AM - Dru Lavigne

- Subject changed from *bpf device is not created when dhcp is not specified* to *Correctly add bpf to devfs rules*

#29 - 11/21/2018 08:00 AM - Sebastien DURIS

thanks a lot,

i modified `/usr/local/lib/python3.6/site-packages/iocage_lib/ioc_common.py` with pull request :

line 699 changed

```
if conf['dhcp'] 'on':  
to
```

```
if conf['bpf'] 'yes':
```

and it works !

really, thanks a lot !

#30 - 12/09/2018 11:37 AM - Dru Lavigne

- Status changed from *In Progress* to *Done*

- Needs Doc changed from *Yes* to *No*

- Needs Merging changed from *Yes* to *No*

#31 - 12/13/2018 12:42 PM - Sebastien DURIS

this ticket has been forgotten in 11.2 release, need to rechange `/usr/local/lib/python3.6/site-packages/iocage_lib/ioc_common.py` script after update

and when i apply this update manually i can't start dhcp jails :

```
Can't find free bpf: No such file or directory  
exiting.
```

```
/etc/rc.d/dhclient: WARNING: failed to start dhclient
```

Stopped `openvpn_srv` due to VNET failure

#32 - 12/14/2018 11:44 AM - Brandon Schneider

It wasn't forgotten :) It's targeted for U1

#33 - 12/14/2018 02:37 PM - Sebastien DURIS

ok then why i can't apply the further change in `iocage` script ?

something has changed ?

#34 - 12/29/2018 02:16 PM - Daniel shsh

Hello everyone,

I arrived here from google. I have 11.2-U1 installed on my server and the issue persists as described by OP. The fix in PR <https://github.com/freenas/iocage/pull/101> works after editing the file and rebooting FreeNAS. Just wanted to help others that get here by looking for a fix.

I have recreated the jail from scratch before applying the fix&rebooting. The jail used the same settings but it didn't work before rebooting although I've applied the fix before recreating the jail.

This jail is meant for dnsmasq to run as a local dns&pxe server.

Regards and a Happy New Year to everyone!

#35 - 01/07/2019 03:42 PM - meku m

This fix has not yet been released.

Confusingly the 11.2-U1 release that is [now public](#) is not the same as the [11.2-U1](#) target attached to this issue.