FreeBSD Administration - Feature #811

Compile a Custom Kernel for VIMAGE Support on FreeBSD

05/14/2016 12:58 PM - Daniel Curtis

Status:	Closed	**Start date:**	05/15/2016
Priority:	Normal	**Due date:**	
Assignee:	Daniel Curtis	**% Done:**	100%
Category:		**Estimated time:**	3.00 hours
Target version:	FreeBSD 10	**Spent time:**	3.00 hours

Description

This is a guide on how I compiled VIMAGE support into a custom FreeBSD 10.2 kernel.

Download the kernel sources

- Install subversion:

```
pkg install subversion
```

- Download the FreeBSD 10.2 kernel sources

```
svn checkout http://svn.freebsd.org/base/release/10.2.0/ /usr/src
```

Create a custom kernel config

- Change into the kernel source directory and create a new kernel

```
cd /usr/src/sys/amd64/conf
cp GENERIC NEWKERNEL
```

- Edit the new kernel config file:

```
vi NEWKERNEL
```

  - And add the following:

```
options         VIMAGE
options         RACCT
options         RCTL
```

Build and install the new kernel

- Change to the kernel source directory, then build and install the new kernel:

```
cd /usr/src
make buildkernel KERNCONF=NEWKERNEL
make installkernel KERNCONF=NEWKERNEL
```

NOTE: This process took about 2 hours on the VM I used.

Resources

- http://jsherz.com/freebsd/jails/kernel/vnet/2015/11/17/custom-kernel-jails-vnet.html
- http://wiki.polymorf.fr/index.php/Howto:FreeBSD_jail_vnet
- https://github.com/iocage/iocage/blob/master/README.md

History

#1 - 05/14/2016 01:02 PM - Daniel Curtis

- Start date changed from 05/14/2016 to 05/15/2016

#2 - 05/20/2016 04:58 PM - Daniel Curtis

- Status changed from New to In Progress

- % Done changed from 0 to 30

#3 - 05/20/2016 05:30 PM - Daniel Curtis

- Description updated

- Status changed from In Progress to Resolved

- % Done changed from 30 to 100

#4 - 07/10/2016 10:02 AM - Daniel Curtis

- Status changed from Resolved to Closed