

pfSense - Bug #7308

ZFS installer - check storage capabilities

02/23/2017 11:10 AM - Clinton Cory

Status:	Resolved	Start date:	02/23/2017
Priority:	Normal	Due date:	
Assignee:	Renato Botelho	% Done:	100%
Category:	Installer	Estimated time:	0.00 hour
Target version:	2.4.3	Affected Architecture:	
Affected Version:	2.4		

Description

ZFS installer fails on the SG-2220 due to the small size of the internal storage (4 GB). The default swap size in ZFS is 2G but reducing this still results in a failure. The install appears to go through properly but after a reboot we get this error:

```
Mounting from zfs:zroot/ROOT/default failed with error 5.
```

```
Loader variables:
```

```
  vfs.root.mountfrom=zfs:zroot/ROOT/default
```

```
Manual root filesystem specification:
```

```
<fstype>:<device> [options]
  Mount <device> using filesystem <fstype>
  and with the specified (optional) option list.
```

```
eg. ufs:/dev/da0s1a
    zfs:tank
    cd9660:/dev/cd0 ro
    (which is equivalent to: mount -t cd9660 -o ro /dev/cd0 /)
```

```
?          List valid disk boot devices
.          Yield 1 second (for background tasks)
<empty line> Abort manual input
```

```
moutrout> da0 at umass-sim0 bus 0 scbus6 target 0 lun 0
```

```
panic: moutrout: unable to (re-)mount root.
```

```
cpuid = 1
```

```
KDB: enter: panic
```

```
[ thread pid 1 tid 100002 ]
```

```
Stopped at      kdb_enter+0x3b: movq    $0,kdb_why
```

```
db>
```

The installer should check storage and memory capabilities to ensure ZFS isn't installed on a system with insufficient storage/memory requirements. The user should be alerted if the minimum size is not met. Documentation should be updated to reflect this.

Per Renato, this likely affects FreeBSD stock.

History

#1 - 02/28/2017 02:42 PM - Jim Thompson

- Assignee set to Renato Botelho

#2 - 10/20/2017 09:30 PM - Jim Thompson

- Target version set to 2.4.3

#3 - 02/20/2018 08:25 AM - Renato Botelho

- Status changed from New to Feedback
- % Done changed from 0 to 100

Changed installer to request more space to install on ZFS

#4 - 02/24/2018 10:33 PM - James Dekker

- File 24-02-2018_23_30_34.png added

Tested with pfSense-CE-2.4.3-DEVELOPMENT-amd64-20180224-1921.iso and got the attached error with 2G memory, 4G storage and dual core CPU when selecting ZFS installer default options.

#5 - 02/25/2018 06:39 AM - Renato Botelho

- Status changed from Feedback to Resolved

#6 - 09/30/2018 06:59 AM - Christoph Filnköbfl

error is still there for me on SG-2220 with 2.4.4 CE
Even when I reduce the swap to 0.

Files

24-02-2018_23_30_34.png	5.26 KB	02/25/2018	James Dekker
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