

vboot 2 - immutable switch not working

Posted by reallinus - 2011/11/16 02:06

seems that the immutable switch is not working.
not if you press i in boot menu or putting it to the grub.cfg.

:dry:

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Re: vboot 2 - immutable switch not working

Posted by huisinro - 2011/11/16 11:42

can you provide more details? xp/windows 7? on a snapshot disk? or on a base disk?

it works fine with our testing.

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Re: vboot 2 - immutable switch not working

Posted by Natrix - 2011/11/16 19:42

Me too immutable dont work on snapshot and on base disk too on Windows 7 x64
and even more snapshot dont working if its not on the same harddrive
like in the exemple that I have my base disk on my SSD and my snapshot on another disk
this give BSOD. but if I place to snapshot on the SSD with is base disk it boot well with no BSOD.

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Re: vboot 2 - immutable switch not working

Posted by huisinro - 2011/11/16 19:47

is the snapshot created using vboot 1.1? It may have some conflicts. will do more tests, and fix the bugs.

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Re: vboot 2 - immutable switch not working

Posted by Natrix - 2011/11/16 20:38

I'm using only file in the file vbootv2.zip and new a Win7 installation and snapshot.
Strange thing again ... I was able to boot once from a snapshot on v.2 with the parameter immutable ..
but immutable not working I when I try again boot from another snapshot vboot v.2 It fail BSOD
without success once like the other time...

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Re:vboot 2 - immutable switch not working

Posted by reallinus - 2011/11/16 20:59

hi team,

sorry i was in a hurry... its windows 7 32/64 bit.

snapshots are also not working for me. even if i create a snapshotentry in boot menu by pressing s. :dry:

the snapshot is created but when you boot the created entry the snapshot.vhd is untouched and there is no lock on it.

But performance is now great B) B) B)

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Re:vboot 2 - immutable switch not working

Posted by huisinro - 2011/11/16 21:16

when you press 'i', did the child disk get created? soemeting like _immutable_child.vhd.

we need to perform more testing on snapshots.

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Re:vboot 2 - immutable switch not working

Posted by huisinro - 2011/11/16 21:19

nice to know, performance is the main thing on v2.0 at this point. (using 16 threads for 1st level disk, and 4 threads for 2nd level vhd)

memory use should be lower too compared to v1.

reallinus wrote:

But performance is now great B) B) B)

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Re:vboot 2 - immutable switch not working

Posted by reallinus - 2011/11/16 23:23

when i is pressed there is no additional file like name _immutablechild.vhd created.

with vboot 1.1 it worked on my machine. the same result with my boot entry. no additional file is created. menuentry "Windows 7-64 Immutable" {

```
vboot harddisk="(hd0,1)/vboot/vhds/windows/win764.vhd" immutable
}
```

the snapshot file i created by "vbootctl creatediff c:vbootvhdswindowswin764.snapshot
c:vbootvhdswindowswin764.vhd"
is also untouched. only the parent vhd is in use. (same result if i press s and let the grub create an entry
and the snapshotfile)
menuentry "2 Windows 7-64 Snapshot" {
 vboot
 harddisk="(hd0,1)/vboot/vhds/windows/win764.snapshot;(hd0,1)/vboot/vhds/windows/win764.vhd"
}

:S

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Re:vboot 2 - immutable switch not working

Posted by huisinro - 2011/11/17 00:10

will fix this bug next update with windows 8 support, in couple of days.

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Re:vboot 2 - immutable switch not working

Posted by reallinus - 2011/11/17 00:19

great! thanx

B) :cheer:

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Re:vboot 2 - immutable switch not working

Posted by reallinus - 2011/11/17 00:41

another question...

when will a vloop paket for new ubuntu 11.10 released?
i mainly work with ubuntu...

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Re:vboot 2 - immutable switch not working

Posted by huisinro - 2011/11/17 21:00

This snapshot bug is fixed now, vboot-v2.zip is updated, pls re-download it, and run "vbootctl update current" from inside vbooted vhd instance.

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Re:vboot 2 - immutable switch not working

Posted by reallinus - 2011/11/17 23:58

great work! immutable is working now :) :) :) :P

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Re:vboot 2 - immutable switch not working

Posted by Natrix - 2011/11/18 03:02

Thank you very much, snapshot and immutable working now!
performance is great!
But, immutable child of a snapshot dont working.
with the parameter immutable with vboot base disk and snapshot
immutable only apply to the base disk only
and dont work for immutable snapshot.

I wonder if you got a option for the path of the immutable_child?
For making the immutable_child on a other disk then my SSD
thank you

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Re:vboot 2 - immutable switch not working

Posted by huisinro - 2011/11/18 10:09

if you want a permanent child disk, try press 's' at boot time, it will give you a chance to enter a path for the child, then create it.

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Re:vboot 2 - immutable switch not working

Posted by Natrix - 2011/11/21 16:31

Actually the permanent child disk work perfectly.
And I never take the grub2 boot loader to modify the grub.cfg because of strange results sometimes...

But, what I want to do is a immutable child disk of my base disk or/and his snapshot, and this immutable child disk have to be on another Hard-Drive then his base disk.
Like in the exemple that I use a SSD drive for my base disk, and I use normal Hard-drive for his

snapshot and there immutable child disk. (great setup for speed up read of the SSD, spare write and then increased life expectancy, almost need if you got SSDs drives in a striped Raid0 who will disable the TRIM function, needed for increase life expectancy as well only support in one SSD drive configuration.)

But, the vboot v.2 beta dont work with immutable child disk of snapshot.

I was using this on vboot v.1 it work very well.

And another boot parameter who would be great is: immutable_dir="(LABEL=Snapshot)/"

I know is possible to put the immutable child disk where I want, but only when the base disk have a snapshot on another HardDrive, where the immutable child disk is written with the snapshot.

But would be great to have this fonctionnality without having to create a snapshot on another HardDrive for then put it immutable.

A command like:

vboot harddrive="(LABEL=SSD)/windows.vhd" immutable_dir="(LABEL=Snapshot)/"

or

vboot harddrive="(LABEL=SSD)/windows.vhd" immutable_path="(LABEL=Snapshot)/"

and even more if vboot support rambooting.

vboot harddrive="(LABEL=SSD)/windows.vhd" immutable_mem="(SIZE=8)"

redirecting all write to a snapshot disk taken in the OS invisible physical Memory at boot.

Considering the arrival of Desktop system with 24/48/64 Go of Ram Memory and SSDs Drive at low cost for building a Raid0, VBoot would be a number #1 feature for these new Desktop performance, and life expectancy as well for the system OS but even more for every type of SSD Hard-Drives, but most on them SSD low cost who dont support TRIM or/and if there are setup in a strip Raid0 where TRIM cannot be enabled.

So, by spare all the write on it the life expectancy of a Solid State Drive will be extended to his maximum in theory.

But system OS with volatile immutable like this would have one problem if the User want to commit change to the system.

Would be nice to have feature in VBoot like committing change to base disk.

Just like in Windows ThinPC or Windows Standard 7 Embedded, where the function is called:

Enhanced Write Filter (EWF) and File-Based Write Filter (FBWF). Who have the possibility to write differential file on another partiton or in Ram for then let the user chose when to commit change to the base system while the OS is running.

VBoot would likely be more great then these Microsoft feature who are only enabled in expansive Microsoft OS like Embedded.

p.s. VBoot v.2 beta performance is more great then I expected. Thank you !

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Re:vboot 2 - immutable switch not working

Posted by huisinro - 2011/11/21 18:49

Thanks for the suggestions. Will spend more time reading it.

for the memory part, we will release another product, mBoot, that can ram boot regular windows installations, in addition to vhd files. Yes, we will do much more on this, as RAM is not efficiently used today. We will add the normal way of RAM boot to vboot soon, such as loading the disk to memory, or put snapshots to memory, etc.

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Re:vboot 2 - immutable switch not working

Posted by huisinro - 2011/11/21 18:59

for memory boot, more info here:

http://www.vmlite.com/index.php?option=com_kunena&Itemid=158&func=view&catid=17&id=8237

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Re:vboot 2 - immutable switch not working

Posted by huisinro - 2011/11/27 11:38

Natrix,

We are implementing your suggestions about immutable flag. We are doing this:

- (1) immutable - the old way
- (2) immutable="(hd0,1)/myfile.vhd", so you can specify a file
- (3) immutable="(ram)offset:1G,size:2G", so you can use a ram region to store the diff file.

let me know what else you would like to add.

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Re:vboot 2 - immutable switch not working

Posted by Natrix - 2011/11/27 17:54

I could not imagine more for the moments...

..But another thing, who would be useful for user about immutable disk, would be to let them choose when kept the change made in it. In that way users who unfortunately change to many things or important data, can kept them safe. Turning the immutable disk into a snapshot at boot.

In the vboot grub2 input would have - A - for:

-Add immutable disk to snapshot-

or maybe another way to make it before reboot..

is your vboot v.2 beta include these immutable feature from now ?

and ram vhd boot too ?

thank you, :)

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Re:vboot 2 - immutable switch not working

Posted by huisinro - 2011/11/27 18:56

ram stuff is not ready yet, may have something soon for below 4G ram, will take more time for above 4G. our mBoot product is file based, so one can configure passthru files. the vboot builtin RAM support is all disk/sector based, and you won't selectively let some files to save to disks.

If you want a permanent snapshot, you can use take a snapshot, so this is not needed for immutable flag.

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Re:vboot 2 - immutable switch not working

Posted by Natrix - 2011/11/28 09:27

if I boot in immutable mode on, and I want to reboot and kept the vhd_child_immutable.vhd, can I add his entry as a snapshot without problem? Because I dont want create snapshot everytime I boot.. BTW, I'm not sure if a snapshot taken with the same file name overwrite the old snapshot??

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Re:vboot 2 - immutable switch not working

Posted by huisinro - 2011/11/28 09:34

when you boot, select an entry, and press 's' to take a snapshot. then it will use the same file everytime. it won't recreate, the same file keeps untill you delete the snapshot.

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Re:vboot 2 - immutable switch not working

Posted by Natrix - 2011/11/28 16:47

the command take_snapshot= ... create a new menu entry like:
vboot harddisk=(hd2,1)/snapshot.vhd
but it wont boot because the base disk is on: harddisk=(hd1,1)/basedisk.vhd
why the new menu entry created by "take_snapshot=" his not adding path to the base disk. When the base disk is not situated on the same harddrive has the snapshot, the menu entry doesnt boot. I will test it more, I didnt play alot with doing modification at boot menu, because of strange results doing it.

Also, I want find a way of doing these entry modification before reboot, easily for users. Because, users would not have access to boot menu at all, when computer start.

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Posted by generic cialis - 2015/11/23 09:55

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