

# GIS - Support #13982

## Update server's storage

28/04/2022 17:20 - Philippe May

<b>Status:</b>	Resolved	<b>Start date:</b>	28/04/2022
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	Philippe May	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	0.00 hour
<b>Description</b>			
The storage management needs to be updated. There's now an SSD on the server after a failure of HDD, and the partitioning of the setup needs review and update.			

### History

#### #1 - 28/04/2022 17:21 - Philippe May

Current status:

```
root@dream:~# lsblk -f
NAME                                FSTYPE      FSVER    LABEL    UUID
  FSAVAIL  FSUSE%  MOUNTPOINT
sda
├─sda1                vfat        FAT32    8E56-E147
├─sda2                btrfs      35e94cd2-7d9e-4b45-88ba-f6ea79756bb8
├─sda3                btrfs      39b40adb-70a8-4271-93c1-065bb53d7fed
├─sda4                swap        1        a62cdc04-4846-4649-9bdd-72c3d701ec74
├─sda5                btrfs      594e4dcc-7202-4398-95d2-afb37b4f9df2
└─sda6                linux_raid_member  1.2      dream:0  8f064ad3-8046-7ac4-8748-7e98b372ee9b
  └─md0                LVM2_member  LVM2    001      X4Jifu-HeCl-fhzw-fYbM-rdm2-dYLY-kbqB8K
    ├─dream.csr-gisaf.csr.av--swap  swap        1        d54dae72-6d79-4c74-a9d9-03dfdce55000
    ├─dream.csr-gisaf.csr.av--disk  ext4        1.0      92db39ef-d7f0-4227-97f6-2992196a09bb
    ├─dream.csr-infra.csr.av--swap  swap        1        c9745d54-c279-4a33-85d9-ef512ae76dfd
    ├─dream.csr-infra.csr.av--disk  ext4        1.0      097afe53-8590-4bee-a979-595658f34cf4
    ├─dream.csr-samba.csr.av--swap  swap        1        826e3a7c-7fa1-4c9c-892b-bcdb64abdc47
    ├─dream.csr-samba.csr.av--disk  ext4        1.0      8a7004b1-d0ae-4b8e-aa3f-15b26f2d96d2
    ├─dream.csr-gisaf2.csr.av--swap  swap        1        581499fd-3d3a-4ccf-b097-dce8d6eace24
    ├─dream.csr-gisaf2.csr.av--disk  ext4        1.0      fb9221ae-d10b-4c70-bc60-b48ec001729d
    ├─dream.csr-gisdb.csr.av--swap  swap        1        b8fad7c6-1b86-4509-adbc-3806702e6b97
    ├─dream.csr-gisdb.csr.av--disk  ext4        1.0      dea7e1e3-197d-40ac-8892-2358c7a38619
    ├─dream.csr-jupyter.csr.av--swap  swap        1        71450732-86a4-4496-9073-82287961925c
    └─dream.csr-jupyter.csr.av--disk  ext4        1.0      51b56adf-b971-43b1-882f-9addb86244f6
sdb
├─sdb1                vfat        FAT32    8E56-E147
├─sdb2                ext4        1.0      06195c52-a6c4-4cf1-90ae-53827b09bea2
  19.4G    14% /
```

sdb4		swap	1	a55edd67-196f-4405-bbcc-d6abb7114ac4
	[SWAP]			
└sdb5				
sdc				
sdc1		vfat	FAT32	8E56-E148
451.3M	12% /boot/efi			
└sdc2				
sdd				
sdd1		vfat	FAT32	D540-3601
sdd2		ext4	1.0	06195c52-a6c4-4cf1-90ae-53827b09bea2
sdd3		btrfs		39b40adb-70a8-4271-93c1-065bb53d7fed
sdd4		swap	1	d0ac7c97-5e83-47c4-90ac-c03061d93b73
sdd5		btrfs		594e4dcc-7202-4398-95d2-afb37b4f9df2
└sdd6		linux_raid_member	1.2	dream:0 8f064ad3-8046-7ac4-8748-7e98b372ee9b
└md0		LVM2_member	LVM2 001	X4Jifu-HeCl-fhzw-fYbM-rdm2-dYLY-kbqB8K
dream.csr-gisaf.csr.av--swap		swap	1	d54dae72-6d79-4c74-a9d9-03dfdce55000
dream.csr-gisaf.csr.av--disk		ext4	1.0	92db39ef-d7f0-4227-97f6-2992196a09bb
dream.csr-infra.csr.av--swap		swap	1	c9745d54-c279-4a33-85d9-ef512ae76dfd
dream.csr-infra.csr.av--disk		ext4	1.0	097afe53-8590-4bee-a979-595658f34cf4
dream.csr-samba.csr.av--swap		swap	1	826e3a7c-7fa1-4c9c-892b-bcdb64abdc47
dream.csr-samba.csr.av--disk		ext4	1.0	8a7004b1-d0ae-4b8e-aa3f-15b26f2d96d2
dream.csr-gisaf2.csr.av--swap		swap	1	581499fd-3d3a-4ccf-b097-dce8d6eace24
dream.csr-gisaf2.csr.av--disk		ext4	1.0	fb9221ae-d10b-4c70-bc60-b48ec001729d
dream.csr-gisdb.csr.av--swap		swap	1	b8fad7c6-1b86-4509-adbc-3806702e6b97
dream.csr-gisdb.csr.av--disk		ext4	1.0	dea7e1e3-197d-40ac-8892-2358c7a38619
dream.csr-jupyter.csr.av--swap		swap	1	71450732-86a4-4496-9073-82287961925c
└dream.csr-jupyter.csr.av--disk		ext4	1.0	51b56adf-b971-43b1-882f-9addb86244f6

```

root@dream:~# lshw|grep -A 12 disk
*-disk:0
  description: ATA Disk
  product: ST2000DM006-2DM1
  physical id: 0
  bus info: scsi@0:0.0.0
  logical name: /dev/sda
  version: CC26
  serial: Z8E0QMHC
  size: 1863GiB (2TB)
  capabilities: gpt-1.00 partitioned partitioned:gpt
  configuration: ansiversion=5 guid=674b4b97-ac3c-4564-b4fe-e7f7be9b4fa9 logicalsectorsize=512 sectorsize=4096
*-volume:0
  description: Windows FAT volume
--
*-disk:1
  description: ATA Disk
  product: TOSHIBA DT01ACA1
  vendor: Toshiba

```

```
physical id: 1
bus info: scsi@1:0.0.0
logical name: /dev/sdb
version: A810
serial: 77I739JMS
size: 931GiB (1TB)
capabilities: gpt-1.00 partitioned partitioned:gpt
configuration: ansiversion=5 guid=59098f62-b43f-4f54-b510-3548c7c21fec logicalsectorsize=512 s
ectorsize=4096
*-volume:0
--
*-disk:2
description: ATA Disk
product: CT480BX500SSD1
physical id: 2
bus info: scsi@2:0.0.0
logical name: /dev/sdc
version: 054
serial: 2146E5E475C8
size: 447GiB (480GB)
capabilities: gpt-1.00 partitioned partitioned:gpt
configuration: ansiversion=5 guid=c7adcf1f-080c-604c-8c68-2e0b84eb2c4e logicalsectorsize=512 s
ectorsize=512
*-volume:0
description: Windows FAT volume
--
*-disk:3
description: ATA Disk
product: ST2000DM006-2DM1
physical id: 3
bus info: scsi@3:0.0.0
logical name: /dev/sdd
version: CC26
serial: Z4Z98DCQ
size: 1863GiB (2TB)
capabilities: gpt-1.00 partitioned partitioned:gpt
configuration: ansiversion=5 guid=59098f62-b43f-4f54-b510-3548c7c21fec logicalsectorsize=512 s
ectorsize=4096
*-volume:0
description: Windows FAT volume
```

## #2 - 06/05/2022 11:38 - Philippe May

We're already booting from the SSD (sdc):

```
root@dream:~# efibootmgr -v
BootCurrent: 0000
Timeout: 1 seconds
BootOrder: 0000,0005,0004,0001,0002,0003,0006,0007,0009
Boot0000* debian      HD(1,GPT,3aea183a-9cca-8d40-9912-66dbaf689a08,0x800,0x100000)/File(\EFI\debian\grubx64.efi)
Boot0001  Onboard NIC (IPV4)      PciRoot(0x0)/Pci(0x1f,0x6)/MAC(d89ef30d1fc0,0)/IPv4(0.0.0.0,0,0,0)..BO
Boot0002  Onboard NIC (IPV6)      PciRoot(0x0)/Pci(0x1f,0x6)/MAC(d89ef30d1fc0,0)/IPv6([::]:<->[::]:,0,0)..BO
Boot0003* grub        PciRoot(0x0)/Pci(0x17,0x0)/Sata(1,65535,0)/HD(1,GPT,b48c01a0-48f3-47fb-a926-ed74cd95f40f,0x800,0x100000)/File(\EFI\debian\grubx64.efi)
Boot0004* Refind from Dell  PciRoot(0x0)/Pci(0x17,0x0)/Sata(1,65535,0)/HD(1,GPT,b48c01a0-48f3-47fb-a926-ed74cd95f40f,0x800,0x100000)/File(\EFI\refind\refind_x64.efi)
Boot0005* rEFInd Boot Manager  HD(1,GPT,b48c01a0-48f3-47fb-a926-ed74cd95f40f,0x800,0x100000)/File(\EFI\refind\refind_x64.efi)
Boot0006* UEFI: ST2000DM006-2DM164  HD(1,GPT,b48c01a0-48f3-47fb-a926-ed74cd95f40f,0x800,0x100000)/File(EFI\boot\bootx64.efi)..BO
Boot0007* UEFI: CT480BX500SSD1  HD(1,GPT,3aea183a-9cca-8d40-9912-66dbaf689a08,0x800,0x100000)/File(EFI\boot\bootx64.efi)..BO
Boot0009* UEFI: ST2000DM006-2DM164  HD(1,GPT,58139cff-774b-4c53-907c-77d995299c49,0x800,0x100000)/File(EFI\boot\bootx64.efi)..BO
```

```
root@dream:~# blkid |grep 3aea
/dev/sdc1: UUID="8E56-E148" BLOCK_SIZE="512" TYPE="vfat" PARTUUID="3aea183a-9cca-8d40-9912-66dbaf689a08"
```

## #3 - 06/05/2022 14:38 - Philippe May

- Status changed from New to Resolved

In a nutshell:

- Copied all root partition from /dev/sdb2 to /dev/sdc2
- Booted with root=/dev/sdc2
- update-grub ## updates /boot/grub/grub.cfg, apparently required by /boot/efi/EFI/debian/grubx64.efi
- cp /boot/grub/grub.cfg /boot/efi/EFI/debian ## Not sure about that one

Additionally:

- Update kernel image on dom0
- Update kernels on domUs (cd /boot ; cp **5.10.0-14** xen)
- Update domUs kernel config to match this version
- Make sure gisaf2.csr.av is booted on dom0 boot, adjust the number of CPUs from 1 to 2

Rebooted the dom0 => all services seem up without human intervention.