Nick Lockett(ns18), Matthew Wu(mlw55)
George Bernard(ghb5), Ryan St. Pierre(ras70)

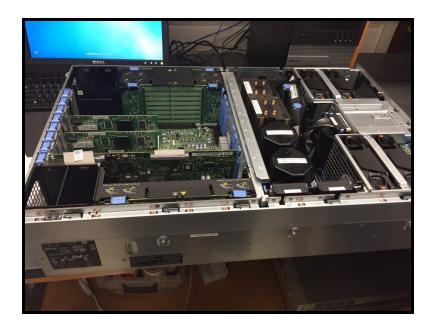
Meet the Server:

The service tag as seen from the back of the chassis. It is #83J7VH1



Poke around inside:

Wide angle shot of the whole chassis



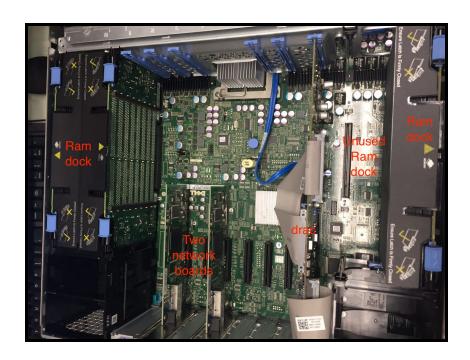
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CPU Heatsinks as seen on left (above), unused CPU slot cowlings on right. Servers have the most amazing slot in fan systems that I wish consumer desktops had.

On the right and left (below) are the ram docks (the one from the left is removed in this photo). In the middle are two network control boards (I believe for fiber channel/optic). On the right with the thick ribbon is the ethernet network card and DRAC.



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This is a photo of one of the two power supply (removed from the back bottom of the chassis)

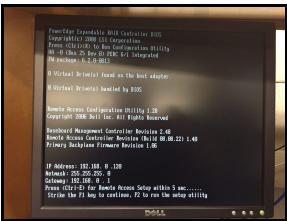


In terms of RAM:

- 1. 4 RAM boards
 - a. Each with 4 sticks
- 2. Each stick: 4GB 2RX4 PC2-5300F-555-11-E0
 - a. DDR2-667 (up to 667 MHz of reach)
 - b. ECC (can correct errors)
- 3. Total: 64 GB

Boot the Server:

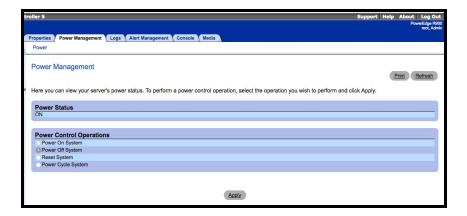
We booted the server, and got to see some lovely BIOS. In this photo you can see the RAID controller section (accessible by Ctrl-R) and the DRAC section as these boot up.

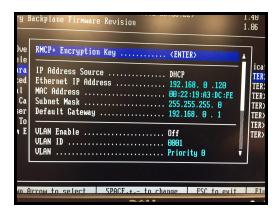


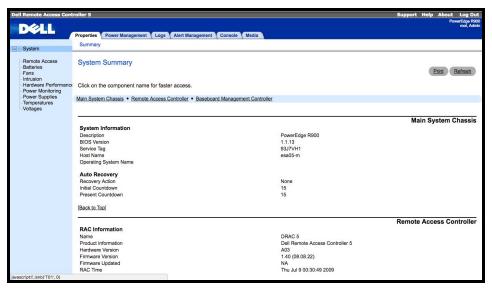
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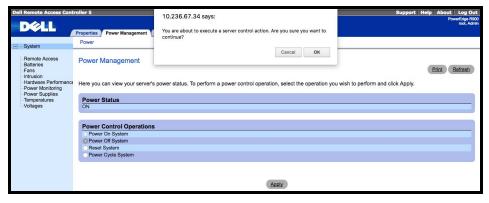
Set Up Remote Access:

We set up the remote access through the DRAC's BIOS menu. Then we played around with the newly set up access site







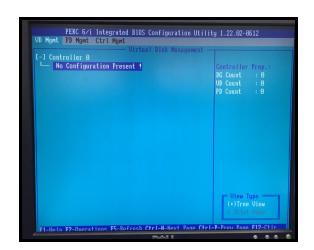


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Shown below is the working remote console (this is shown with Ubuntu installed later but as requested by the report). Note that on machine startup I was able to access BIOS GUIs from this console

Install Drives:

The PERC configuration tool is shown before the logical drives were set up. Later you can see the drive tree after the logical drives were set up.

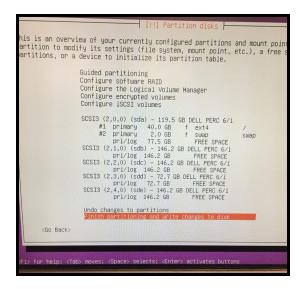




Operating System Installation:

We booted from the Linux CD and began to install the OS. Below you can see the language selection.



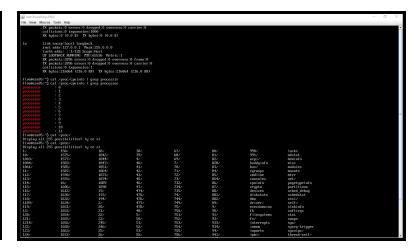


Next you can see the end partitions of the disks.

OS checkup:

We could both manually SSH in via a terminal and via the console on the web.

```
Nick — five@esa05: ~ — ssh five@10.236.67.31 -v — 80×24
                                                           execdomains
                                                           filesystems scsi
1502
1555
1557
1559
1585
1587
1593
1602
1604
1624
1635
1647
1648
1688
17
                 38
40
41
42
43
45
46
47
475
476
477
478
479
48
                                                           fs
interrupts
                                                                               slabinfo
                                                           ioports
                                                                               stat
                                                           ipmi
irq
kallsyms
                                                                               swaps
                                                                              sysrq-trigger
sysvipc
                                                           keys
key-users
                                                                               timer_list
                                                           kmsg
                                                                               timer_stats
                                                           kpagecgroup
                                                           kpagecount
kpageflags
                                                                               version
                                                           loadavg
                                                                               version_signature
vmallocinfo
                                                           locks
                                                           mdstat
                                                                              zoneinfo
                                                           meminfo
1759
                                         consoles
                                                           misc
```



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The output from our look at the partition tables using **fdisk** (it goes off the screen) shown beside the output from the **meminfo** "file".

```
processor : 10
processor : 11
five@esa05:/proc$ cd
Isudol password for five:
Disk /devsda1 :11.3 GiB, 119453777920 bytes, 233308160 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
Jisklabel type: dos
Disk identifier: 0xbf5cad2b

Device Boot Start End Sectors Size Id Type
/dev/sda2 78125055 82030591 3905536 1.96 82 Linux swap / Solaris
Disk /dev/sda1 336.1 GiB, 14616310572 bytes, 285474816 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
Jisklabel type: dos
Disk identifier: 0x00000000

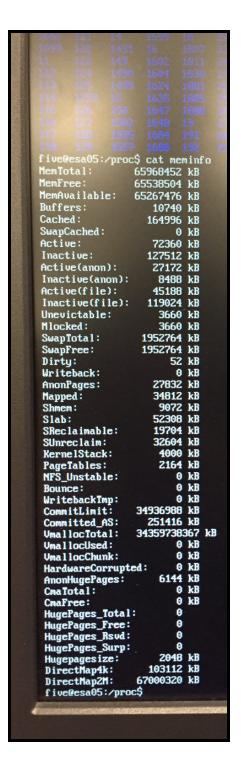
Device Boot Start End Sectors Size Id Type
/dev/sda1 * 0 0 0 0 Enpty
Disk /dev/sdc: 136.1 GiB, 146163105792 bytes, 285474816 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes

Disklabel type: dos
Disk identifier: 0x00000000

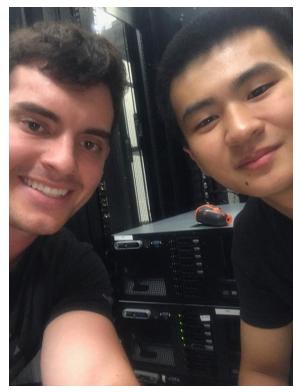
Device Boot Start End Sectors Size Id Type
/dev/sdc1 * 0 0 0 0 Enpty
Disk /dev/sdc2 136.1 GiB, 146163105792 bytes, 285474816 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes

Disklabel type: dos
Disk identifier: 0x00000000

Device Boot Start End Sectors Size Id Type
/dev/sdc1 * 0 0 0 Bepty
Disk /dev/sdd: 67.8 GiB, 72746000576 bytes, 142082048 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
Sector size (log
```



Rackmount installation:



Our server is the one on top in this picture. George and Ryan were both unable to make it, due to personal reasons.