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Tuesday, April 19. 2016

NVMe hotplug

As i get some questions about it in recent times: With a normal SATA/SAS disk you can simply unplug a disk without warning and preparation. NVMe are different. For all practical purposes they are PCI devices. And they want to be handled as such. Unplugging a NVMe drive without using the proper procedure is pretty much like yanking out a PCI card without preparation. So when you want to remove a NVMe disk you have to use the hotplug command in Solaris. To cite the documentation:

hotplug list -lc

Connection State Description

Path

pcie13 ENABLED PCIe-Native /pci@7a,0/pci8086,2f08@3/pci111d,80b5@4

hotplug poweroff pcie13

hotplug list -lc

Connection State Description

Path

ocie13 PRESENT PCIe-Native /pci@7a,0/pci8086,2f08@3/pci111d,80b5@4

On a Oracle server a "OK to remove" light will turn on. Now it should appear as empty.

hotplug list -lc

Connection State Description

Path

pcie13 EMPTY PCIe-Native /pci@7a,0/pci8086,2f08@3/pci111d,80b5@4

For replacement, wait 10 seconds after removal. Then insert the new NVMe drive. You have to enable it before using it. #hotplug enable pcie13

hotplug list -lc

Connection State Description

Path

pcie13 Enabled PCIe-Native /pci@7a,0/pci8086,2f08@3/pci111d,80b5@4

Posted by Joerg Moellenkamp in English, Oracle, Solaris at 22:34