
Subject: OverlayFS (was Re: CUDA support inside containers)

Posted by [abufrejoval](#) on Mon, 21 Nov 2016 12:18:14 GMT

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I guess OverlayFS is what I need to selectively replicate /proc and /sys contents from the host to make the CUDA runtime happy.

I remember reading about it on lwn.net and it looks like it's actually been backported from 3.18 to RHEL/CentOS/(OpenVZ?) 3.10 kernels to support Docker, but it seems it's kernel only and missing support from the userland tools ("mount: unknown file system type 'overlayfs'...").

It's quite maddenning, because device access to /dev/nvidia* from inside the container in general seems to be supported in OpenVZ: I get a 'proper' "invalid argument" when doing a 'cat /dev/nvidia-uvm' and not the dreaded "permission denied" I get from LXC on the native CentOS.
