
Subject: OpenVZ Live Migration

Posted by [shrin_krishnan](#) on Tue, 15 Jul 2008 21:51:34 GMT

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I was trying to understand better how Live Migration works in OpenVZ. Does it require shared storage, or does it move the checkpoint file over ?

If it does not use shared storage how does it maintain consistent fd's if say I am reading a file and doing a network file transfer.

Further, is there any residue on the originating host i.e are there connections maintained on the originating host ? How is the network connection migrated over. Xen and VMware require a shared switch where you send ARP's and change MAC registration. Is the same principle followed here

Subject: Re: OpenVZ Live Migration

Posted by [kir](#) on Wed, 16 Jul 2008 08:16:46 GMT

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Checkpoint file it copied over the network. After migration an ARP announce is sent telling «this IP is now here». There is a short period of time when network packets are dropped and this is pretty normal — TCP packets will be resent, while UDP packets are supposed to be lost sometimes (application level handle it). Opened files and opened network connections are migrated.

If you need more details, see the OpenVZ kernel source code, the directory is kernel/cpt

Subject: Re: OpenVZ Live Migration

Posted by [shrin_krishnan](#) on Wed, 16 Jul 2008 15:09:01 GMT

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What does it mean by opened files are migrated ? If shared storage is not a requirement, then either you copy the complete file over which could be pretty large. unless files are left on the original system and a connection is maintained.

Subject: Re: OpenVZ Live Migration

Posted by [elronxenu](#) on Sun, 31 Aug 2008 05:29:59 GMT

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vzmigrate copies the entire root filesystem.
