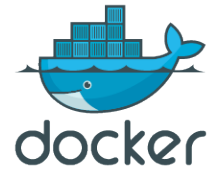


Docker Hackathon summary

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March 2017



ASTERICS TechForum 22-23/03/2017



File system drives

Significant speed issues with the device mapper driver.

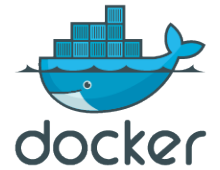
Overlay driver is less of a problem, but is not available on some systems (RedHat in particular).

If you have control over the host platform, it is better to use something like btrfs or LVM.

However, both require root admin rights to make non-trivial changes to the platform configuration.

- Btrfs requires reformatting the disc.
- LVM requires re-partitioning the disc.





Virtual machines

Different reasons for using virtual machines, but almost all are dealing with issues of security and access control.

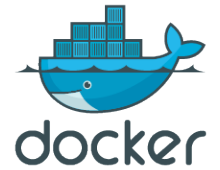
It depends on whether the owner of the physical machine trusts the contents of the container.

If you own the physical machine, and you trust your containers, then no need for a VM.

If you don't own the physical machine, then the system admin may want to put your containers in a VM just to be safe.

If the code in the containers comes from an external 3rd party, then putting the containers in a VM is safer.





Outreach demonstrators

A set of Docker containers with installations of each IVOA service or tool.

Simple configurations, primarily for outreach and workshops.

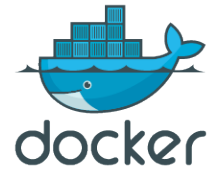
Containers tweaked to be as small as possible (<100M byte).

Available for download from the IVOA website.

Enabling workshop participants to install a linked set of services on their laptop.

Enabling scientists to set up small scale service deployments at quickly and easily.





Docker interest group

Part of the Grid and WebServices group.

Sharing knowledge and experience about using Docker.

<grid@ivoa.net>

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