



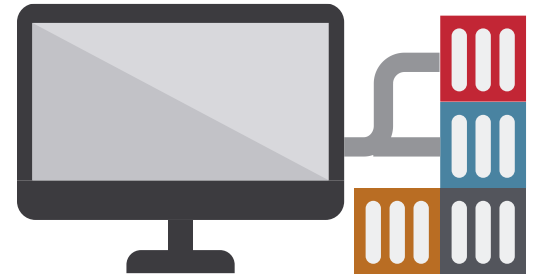
^zVirtuozzo

Persistent Data Storage for Application Containers

Stephen Nichols, Director Sales Engineering

DevOps and CONTAINERS

- Application Containers
- System Containers
- Storage Volumes
- In Development as in Production

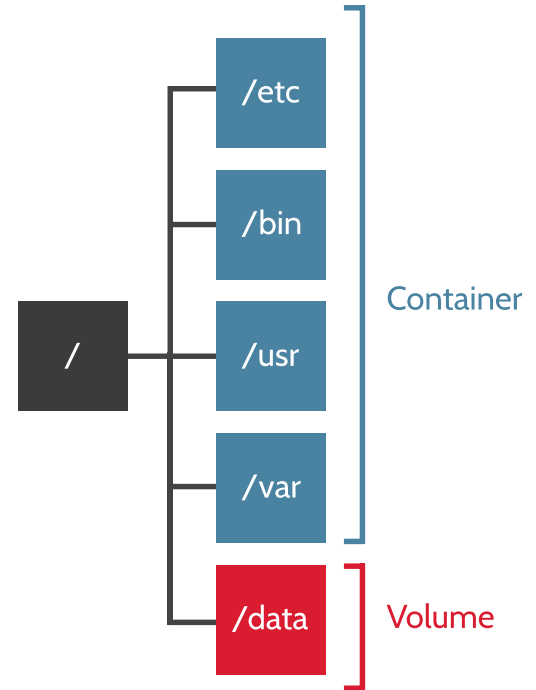


WHAT YOU NEED TO KNOW ABOUT DOCKER VOLUME

AND WHY YOU SHOULD CARE

Docker Volume: a directory with persistent data in an ephemeral container

- Long lived
- Attaches to a container on start
- Can be initialized with initial content

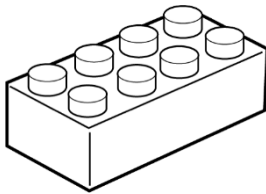


DOCKER VOLUMES IN PRODUCTION

BASICS WON'T DO THE JOB – DOCKER VOLUME PLUGINS DO

Natively Docker volumes:

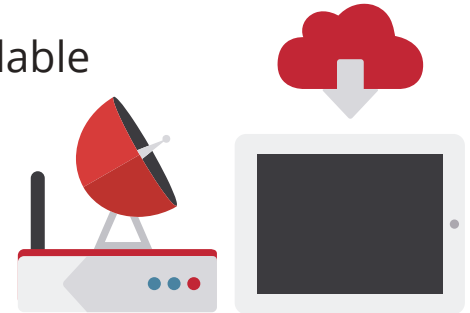
- Coupled with physical servers
- Hard to manage
- Mostly for testing and development



Docker Volume plugin:

externally stored and managed Docker volumes

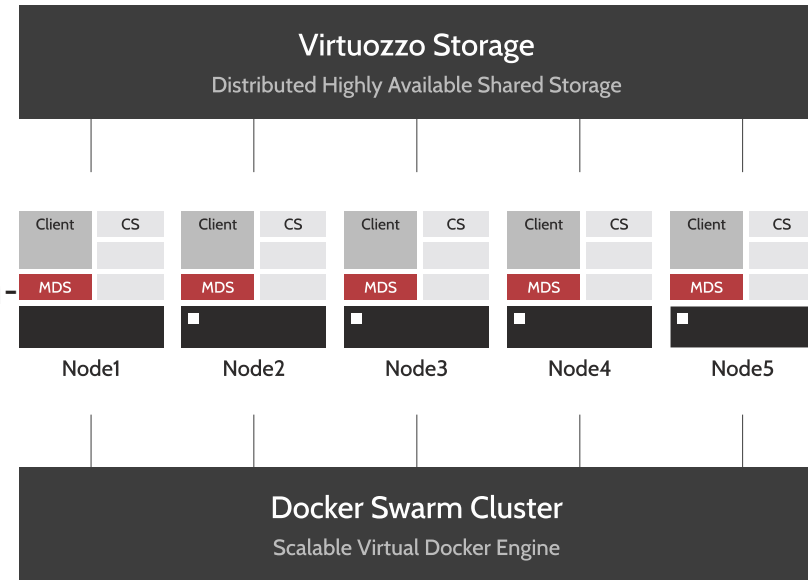
- Available since Docker 1.8
- Simple to leverage
- Simple to implement
- Many plugins are available



VIRTUOZZO STORAGE FOR DOCKER

THE PERFECT MATCH

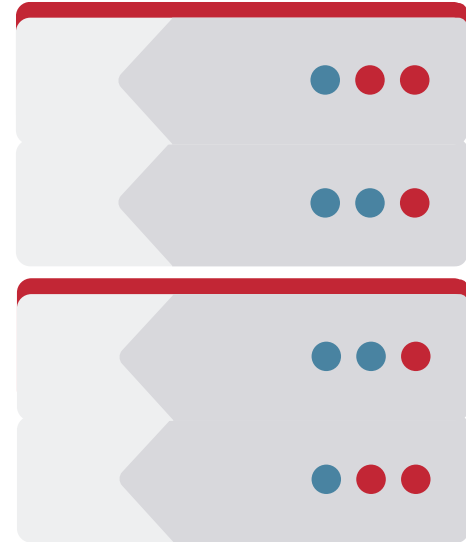
- Originally built for system containers
- Focus on multi-tenant performance
- Virtuozzo storage and Docker cluster (Swarm) share the same nodes
- Docker talks to Virtuozzo storage through open-source plugin called “ploop”
- Docker containers create Volumes for storing persistent data
- These Volumes are stored in VZ storage cluster
- Scalable to hundreds of nodes with PBs of data



FEATURES

OF VIRTUOZZO STORAGE

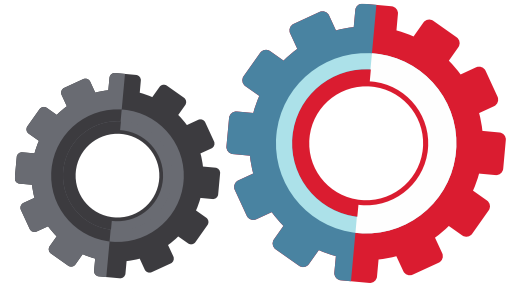
- **Redundant and highly available**
- **SSD** cache
- Hot/Cold **data tiers**
- **Flexible** redundancy
- **Auto-balancing**



BENEFITS

OF VIRTUOZZO STORAGE

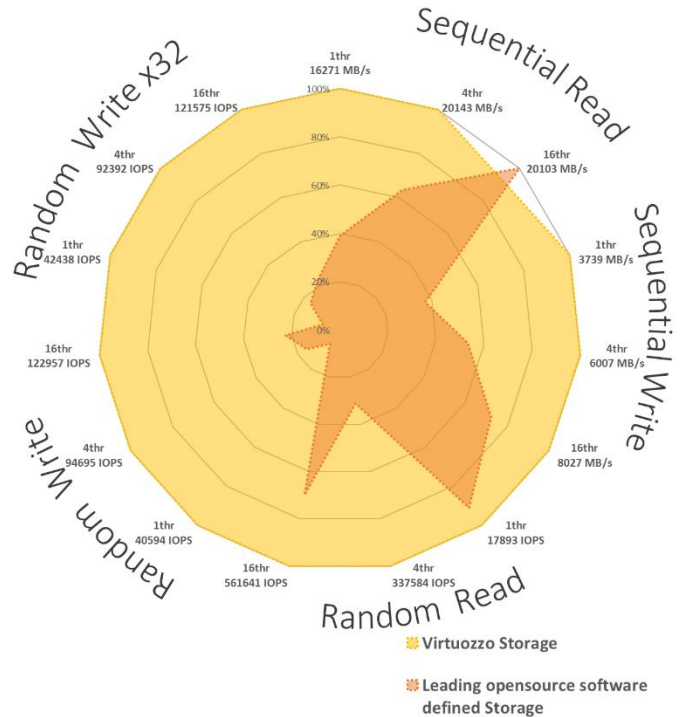
- Works on **commodity hardware**
- **Converged platform:** increase both storage and computing capacity simultaneously
- **Block, File, Object (S3)** storage
- Put idle drives at work
- Fast replication/**self-healing** times



VIRTUOZZO STORAGE PERFORMANCE

Optimized for a multi-tenant, multi-user environment

- Great performance for random IO
- Up to 15x faster than alternatives
- Scales linearly as clusters grow
- Automatically re-balances data



SOUND INTERESTING?

- Visit Virtuozzo at booth #24
- Download Virtuozzo Storage for Docker at <https://virtuozzo.com/docker-storage/>
- Check out our performance comparison <https://goo.gl/lozPSW>
- Developer? Our Docker Volume plugin is at <https://github.com/virtuozzo/docker-volume-ploop>



Visit Virtuozzo at Booth #24

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