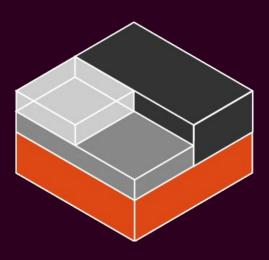


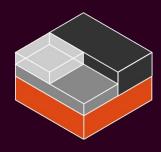
FOSDEM 2016 Brussels, Belgium



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What it IS

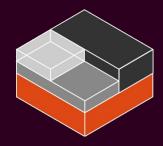


- → Simple Clean command line interface, simple REST API and clear terminology.
- → Fast
 No virtualization overhead so as fast as bare metal.
- → Secure

 Safe by default. Combines all available kernel security features.
- → Scalable

 From a single container on a developer's laptop to thousands of containers per host in a datacenter.

What it **IS**



nova-compute-lxd

command line tool

your own client/script?

LXD REST API

LXD

LXC

Linux kernel

Host A

LXD

LXC

Linux kernel

Host B

LXD

LXC

Linux kernel

Host C

LXD

LXC

Linux kernel

Host D

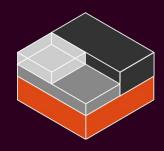
LXD

LXC

Linux kernel

Host ...

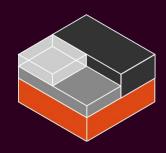
What it ISN'T



- → Another virtualization technology
 - LXD tries to offer as similar a user experience as that of a virtual machine but it doesn't itself virtualize anything, you always get access to the real hardware and the real native performance.
- → A fork of LXC LXD uses LXC's API to manage the containers behind the scene.
- → Another application container manager

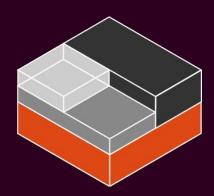
 LXD only cares about full system containers and doesn't care about what runs inside the container.

LXD in the Enterprise



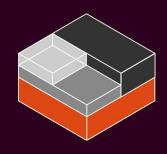
- Integrates with Ubuntu OpenStack
- → Easy to interface/interact with
- → Perfect for idle workloads
- → Direct hardware access
- → Negligible overhead
- → Fine grained resource limits

Demo time



LXD: the container hypervisor

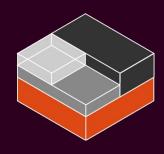
What's coming up next



- → Improved live migration
- → Resource usage reporting
- → Support of all LXD features with OpenStack
- → Juju support for LXD containers
- → Support for running Docker inside LXD

LXD: the container hypervisor

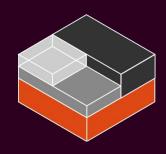
Let's recap



- → Simple but powerful REST API to manage infrastructure containers
- → Image based
- → Trustable containers
- → Scalable
- Designed with developers and enterprise in mind

LXD: the container hypervisor

Contributing



- → Written in Go
- → Fully translatable
- → API client in Go and python
- → Apache2 licensed
- → No CLA

git clone git://github.com/lxc/lxd

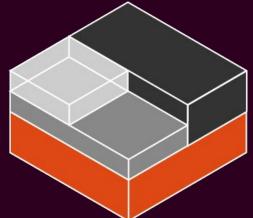
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https://linuxcontainers.org/lxd https://github.com/lxc/lxd



Questions?

Try it yourself at: https://linuxcontainers.org/lxd/try-it