

#### LXD: taking system containers to the next level Serge Hallyn @ CANONICAL .com

## LXC

- Container manager
  - first public release in 2008
  - drives kernel features to present containers to userspace
- very configurable
  - flexible sharing with host
  - build containers by hand or with templates
  - stateless
- API + bindings (python, go, haskell, lua, ...)
- host-local, in fact container-local

#### LXD

- extend LXC over the network
- REST API over TLS
- openstack plugin
- clean command-line client
- improved container workflow
  - Image based
  - Each full LXD is also an image server
  - Image-only servers (images.linuxcontainers.org)
  - Clients can publish containers/snapshots as private or public images
- secure by default

### LXD: the future

- live migration support
- API: purposely generic
  - Working with third parties implementing the LXD api
- remove some current limitations
  - Filesystem mounting
  - Audit
  - LSM stacking
  - Loop
- Hardware security enforcement



# Questions?

github.com/lxc/lxd github.com/lxc/lxd/tree/master/specs