Ubuntu on IBM z Systems

xnox - Dimitri John Ledkov
s390x bootstrap

- Bootstrap off Debian s390x port
- Build Ubuntu toolchain
- Build stage1, stage2, ...
- Rebuild, rebuild, rebuild
- Upload to launchpad
- Rebuild everything again
People

- Adam Conrad (infinity)
- Matthias Klose (doko)
- Steve Langasek (vorlon)
- Dimitri John Ledkov (xnox)
- Colin Watson (cjw Watson)
- ... plus many more
Relatively uneventful bootstrap

- Mature port
- No need to update `config.guess`
- Really fast hardware
- Really stable hardware
Images

- Debian installer netboot/netinst
- ISO with .ins & El Torito
- ISO is a valid install mirror
  - Remote live-installer
  - Signed packages
- Cloud images for KVM
- LXD images
Full Preseed support

- Empty paramfile by default
- Preseed support for s390-dasd
- Preseed support for s390-zfcp
- Preseed support for VLAN id
- Partman-auto enabled
- ... on LPAR, z/VM, z/KVM, KVM
Significant Changes vs Debian port

- zEC12, z13 and up
- Bind now and -fPIE by default
- chzdev instead of hwup/hwdown
- qemu supported
- i18n d-i build
Available Software Stacks

- Cloud-init
- OpenStack Software
- Golang / gcc-go
- LXD
- Docker
- Mongodb
- Etc.
Questions?