

A Light for Science



European Synchrotron Radiation Facility

Migration towards Debian: the view of a system administrator

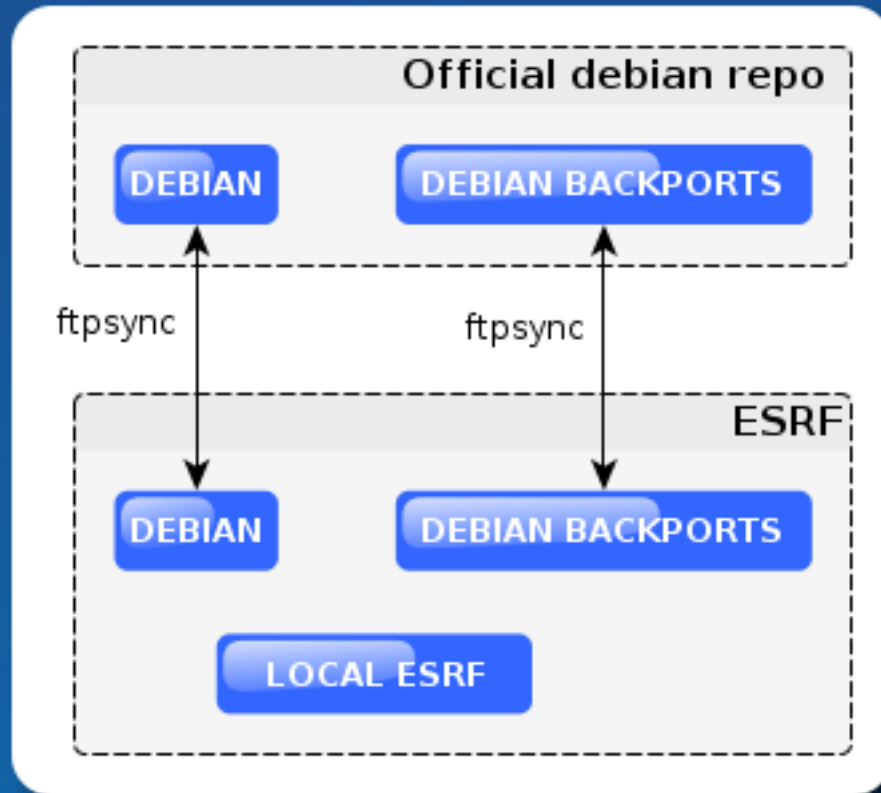
- Why ?
- Deployment infrastructure
- Main challenges

Why ?

- Flexibility for packages !
 - Many types of machines, several update policies.
- Release cycle
 - Need for a stable distribution
- Scientific software
 - Huge amount of software available in debian.
- Security update policy

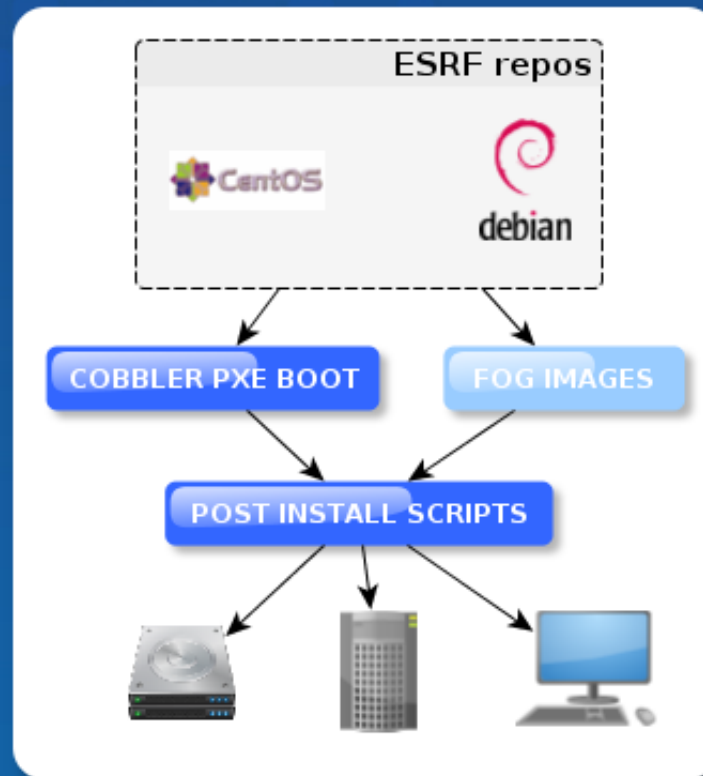
Debian deployment infrastructure

- Repositories



Debian deployment infrastructure

- Repositories
- PXE boot & imaging



Main Challenges

- Get people to migrate to newer tools



- Communication and Help

Main Challenges

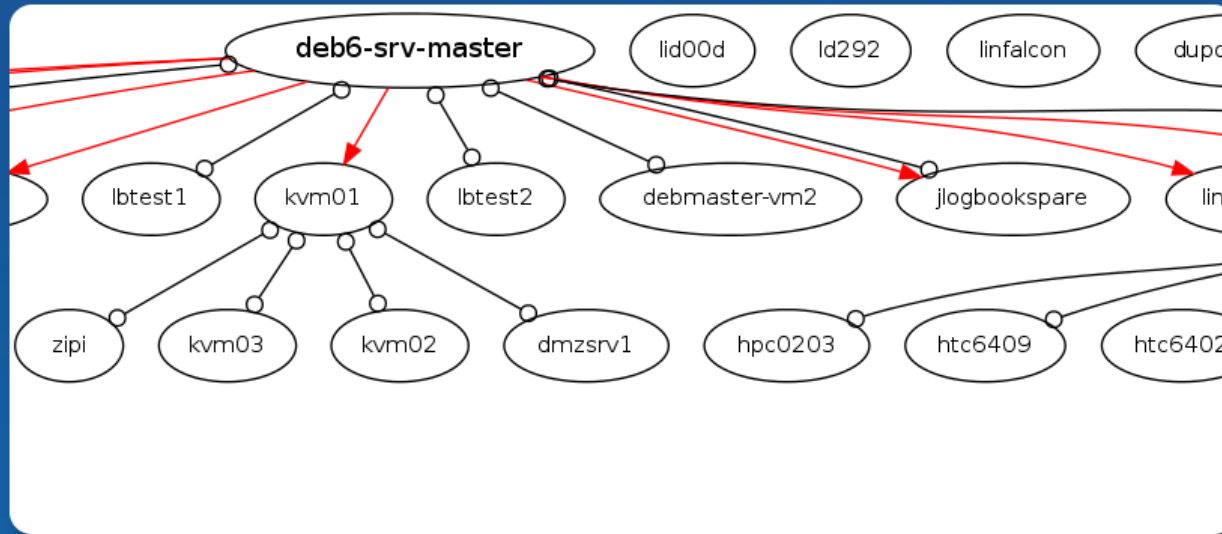
- Do we need to update machines ?



- Several update policies:
 - Machine visible from the outside
 - Machines with home made drivers inside exp

Main Challenges

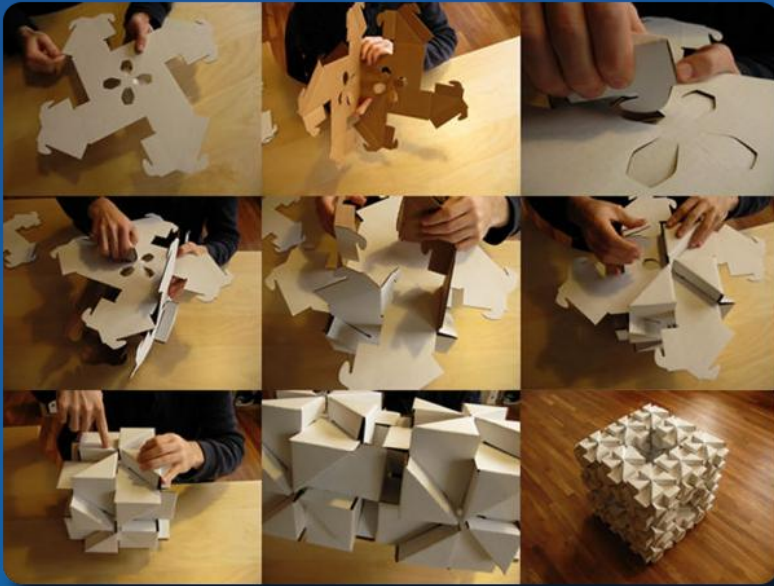
- Dealing with many types of machines



- Internal script to ease management of reference machines

Main Challenges

- Get people to make packages



- Do not reinvent the wheel
- Best method ever to deploy, maintain, track, update software
- Package commercial software
- Debian-backports saved my day !!

Main Challenges

- Migrate platforms we maintain:
 - OAR batch scheduler
 - Monitoring infrastructure
 - Virtualisation platform (Xen citrix → KVM)
 - Remote desktop platform (rnice)

QUESTIONS ?

