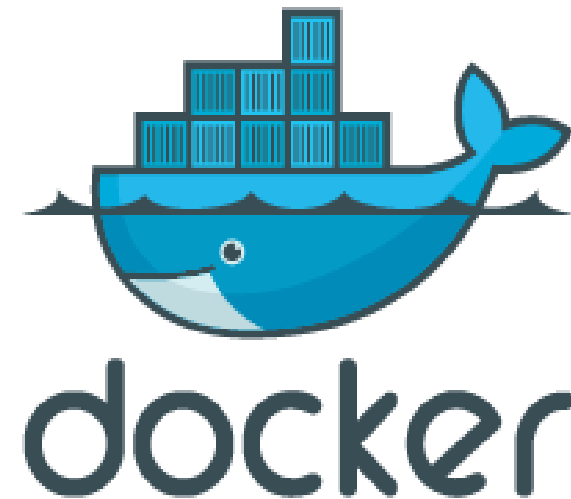


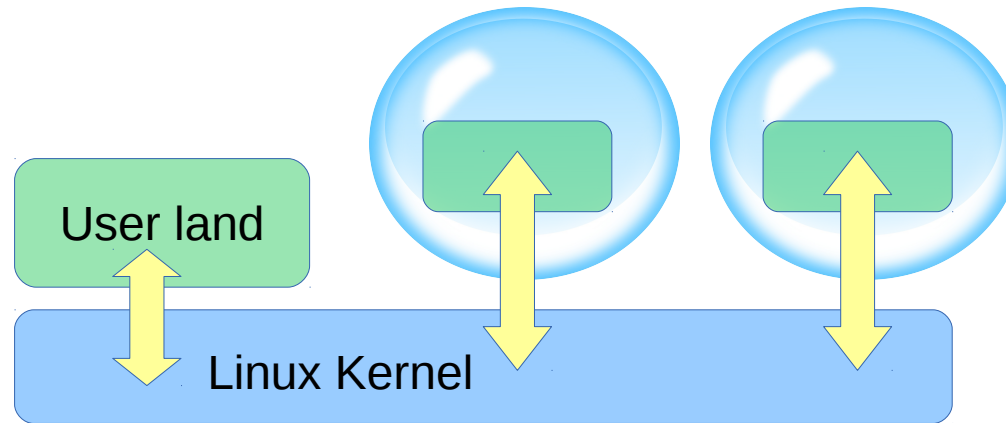


Wide Field Astronomy Unit (WFAU)

Docker deployment



What is a container ?



Linux name space = bubble

What it is not



- Standard shape
- Standard connectors



Why use Docker ...

Rapid
prototyping



Repeatable builds

Linux flavour agnostic



Platform independent



Documented configuration

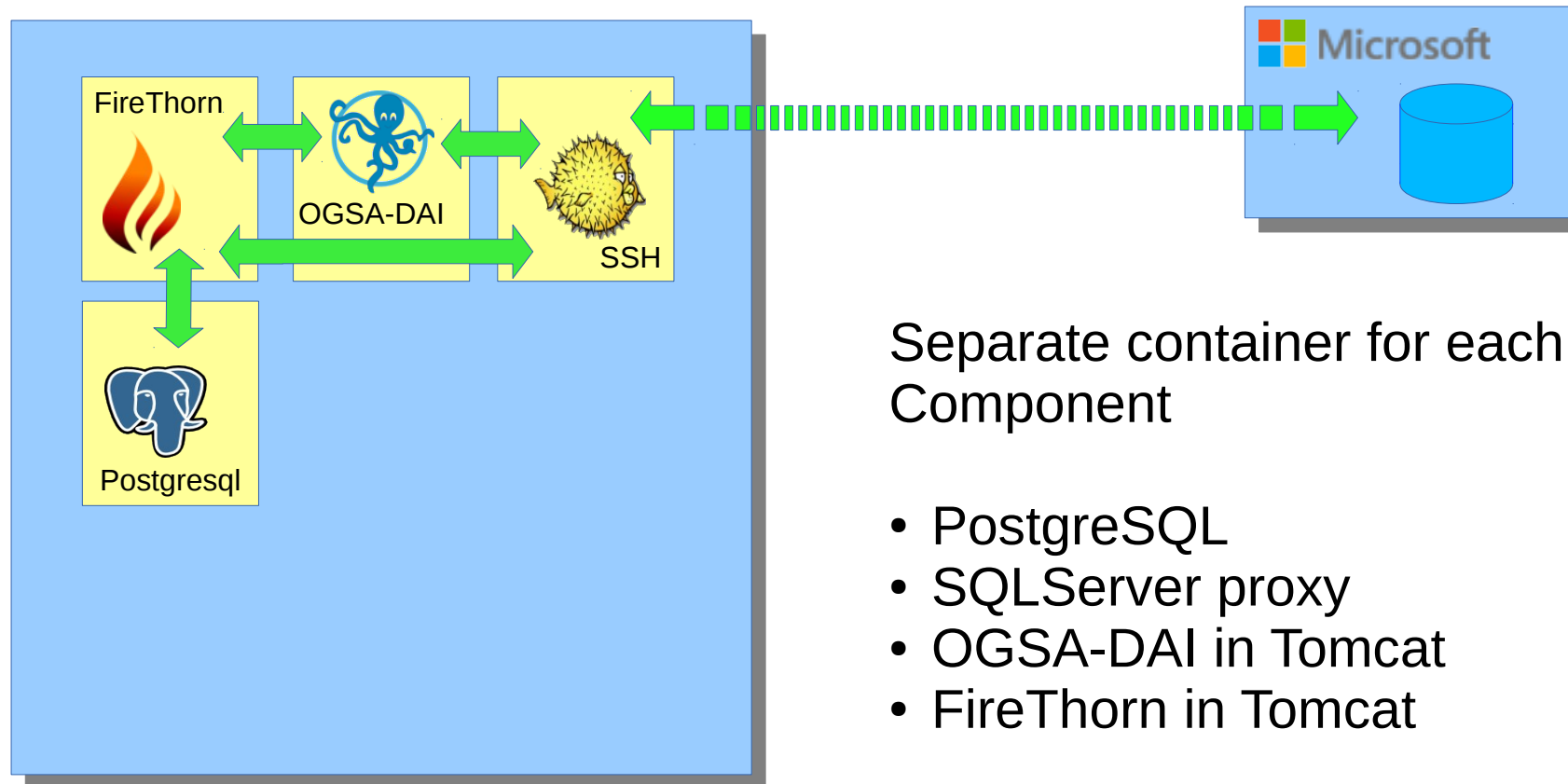


- Version info
- Dependencies



Webapp – service deployment

Docker containers inside a virtual machine

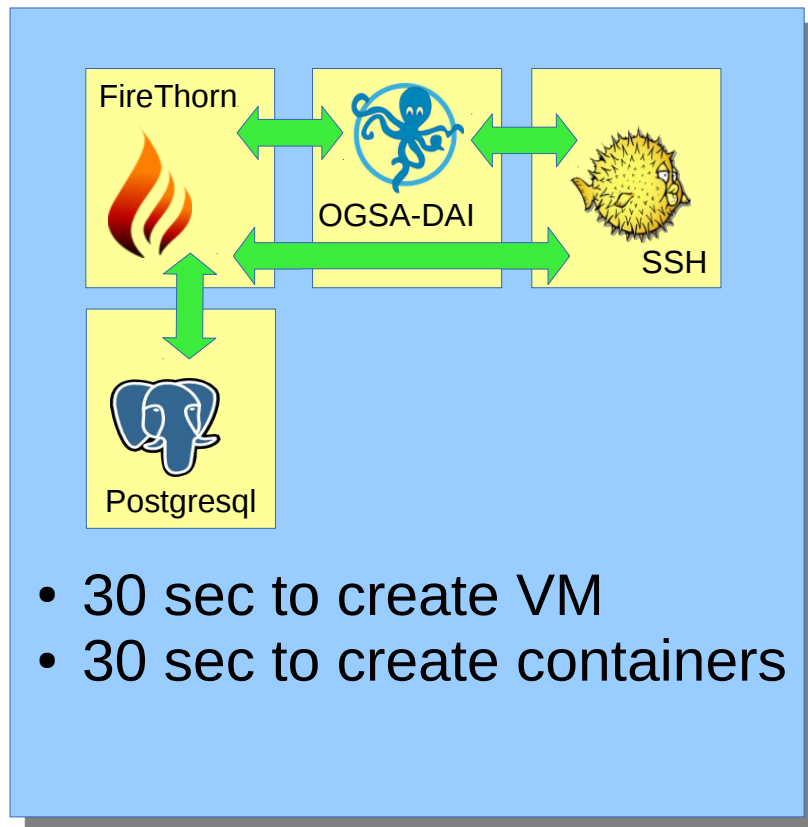


Separate container for each Component

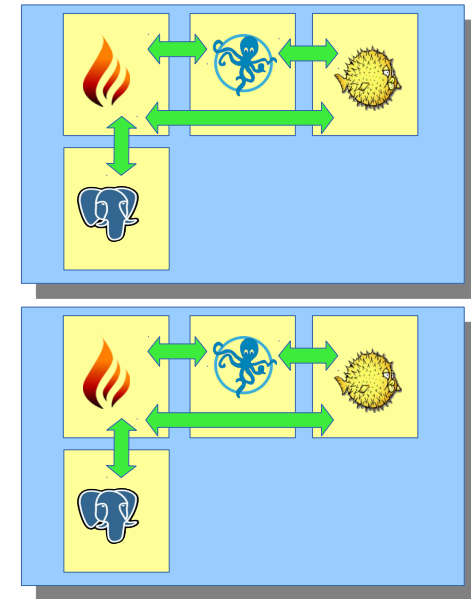
- PostgreSQL
- SQLServer proxy
- OGSA-DAI in Tomcat
- FireThorn in Tomcat

- Basic shell script to launch
- Not using Docker Compose (yet)

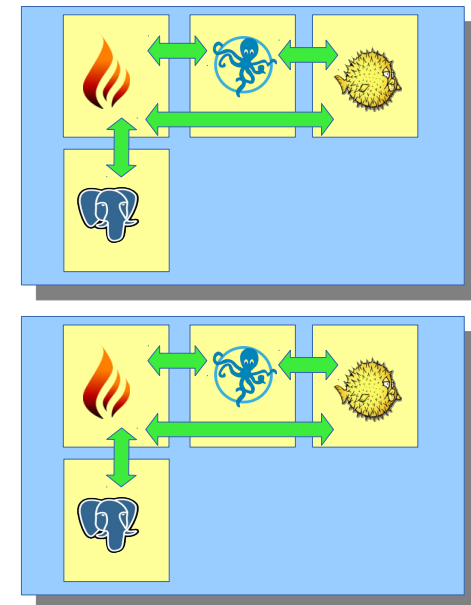
Reproducible testing (in testing)



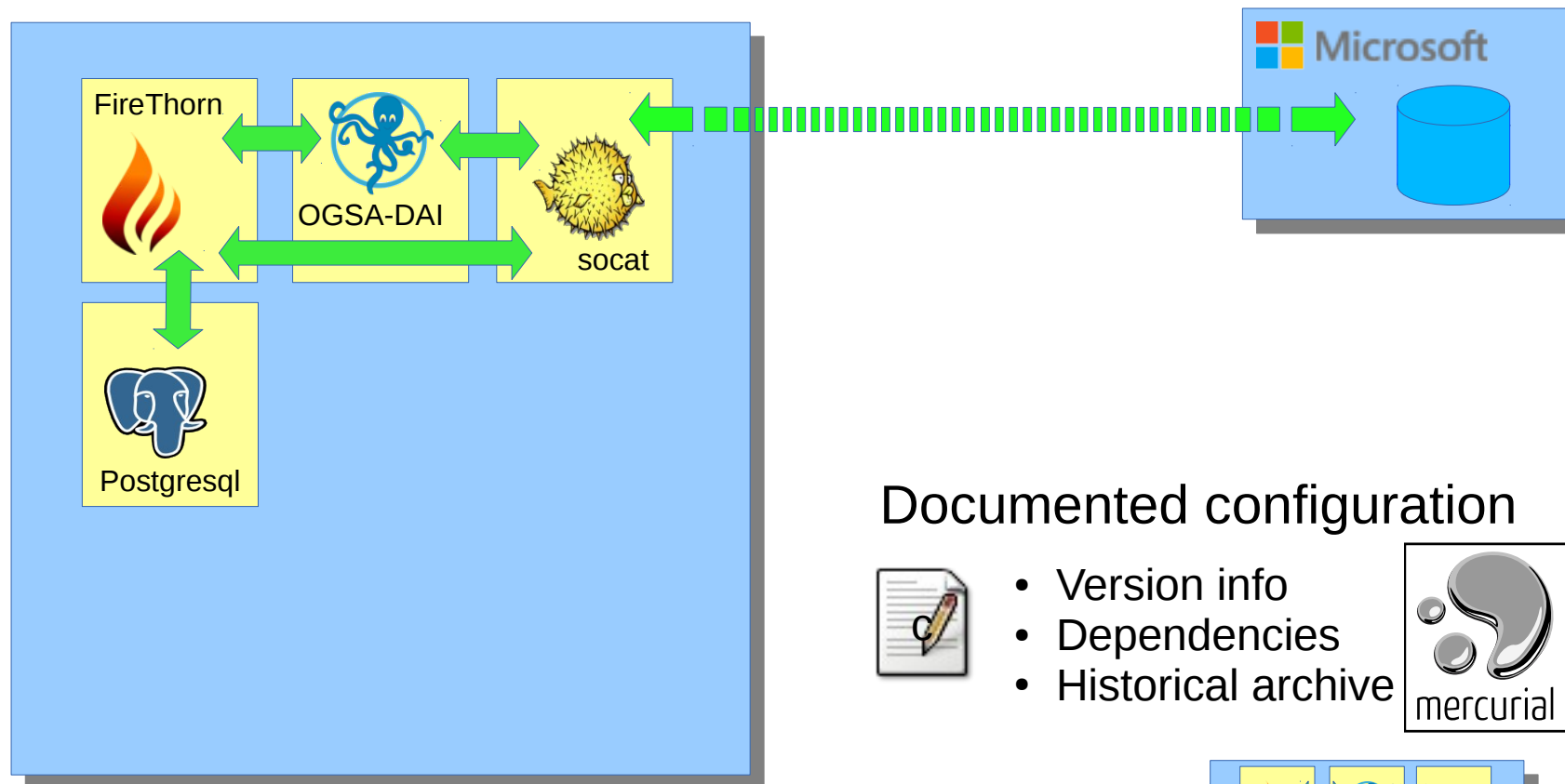
Quick and easy
developer
testing



Long
duration
testing



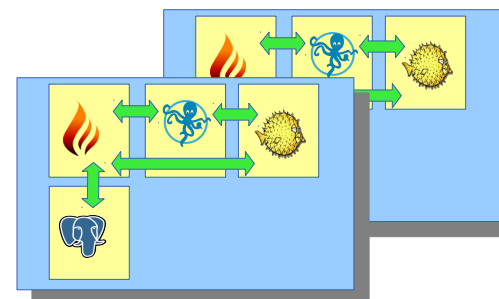
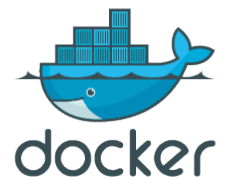
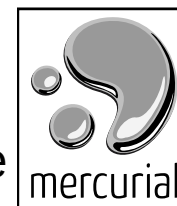
Reproducible deployment (in development)



Documented configuration



- Version info
- Dependencies
- Historical archive





Maven - application deployment (in use)



Maven running in a container, deploying our webapps into Tomcat in containers



IvoaTex - application deployment (in use)



<https://github.com/ivoa/ivoatex>





Future

UWS job runner

LSST tools





Issues

Resources – logging to stdout

Security – root access to the host

Tracking – who is running what





Tricks and tips

Ambassador – socat or ssh

Unix sockets – Docker, SSH and X

Normal user - notroot

