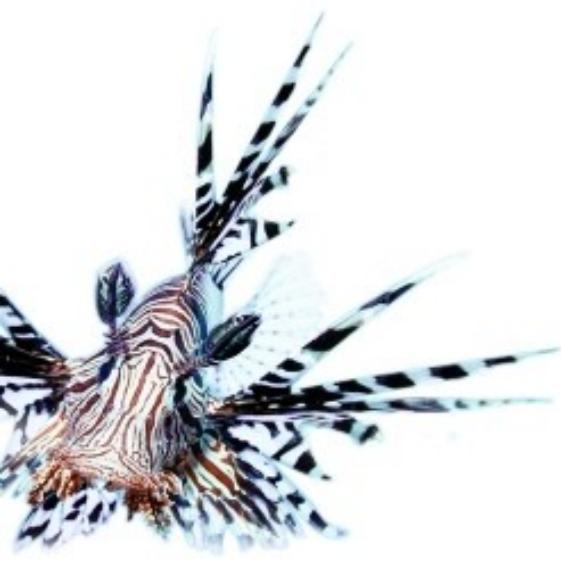


# **The OpenBSD Test Infrastructure behind bluhm.genua.de**

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EuroBSDCon  
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# **whoami**

## **Profession**

- Master of Engineering
- Software Developer

## **OpenBSD**

- User since 3.9
- Contributer since 5.0



<http://bluhm.genua.de/>



# **Performance Tests**





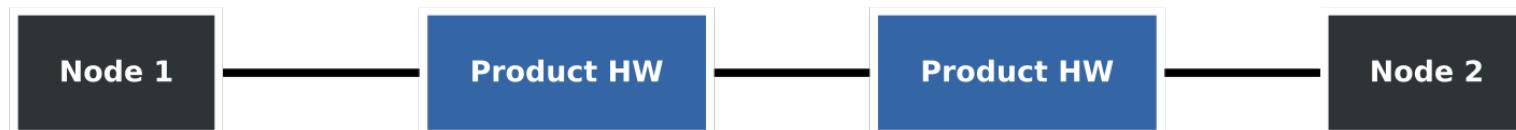
# Performance Tests



GNU/Linux  
iperf

snapshots/amd64  
- routing  
- relayd

GNU/Linux  
iperf



snapshots/amd64  
- ipsec

snapshots/amd64  
- ipsec

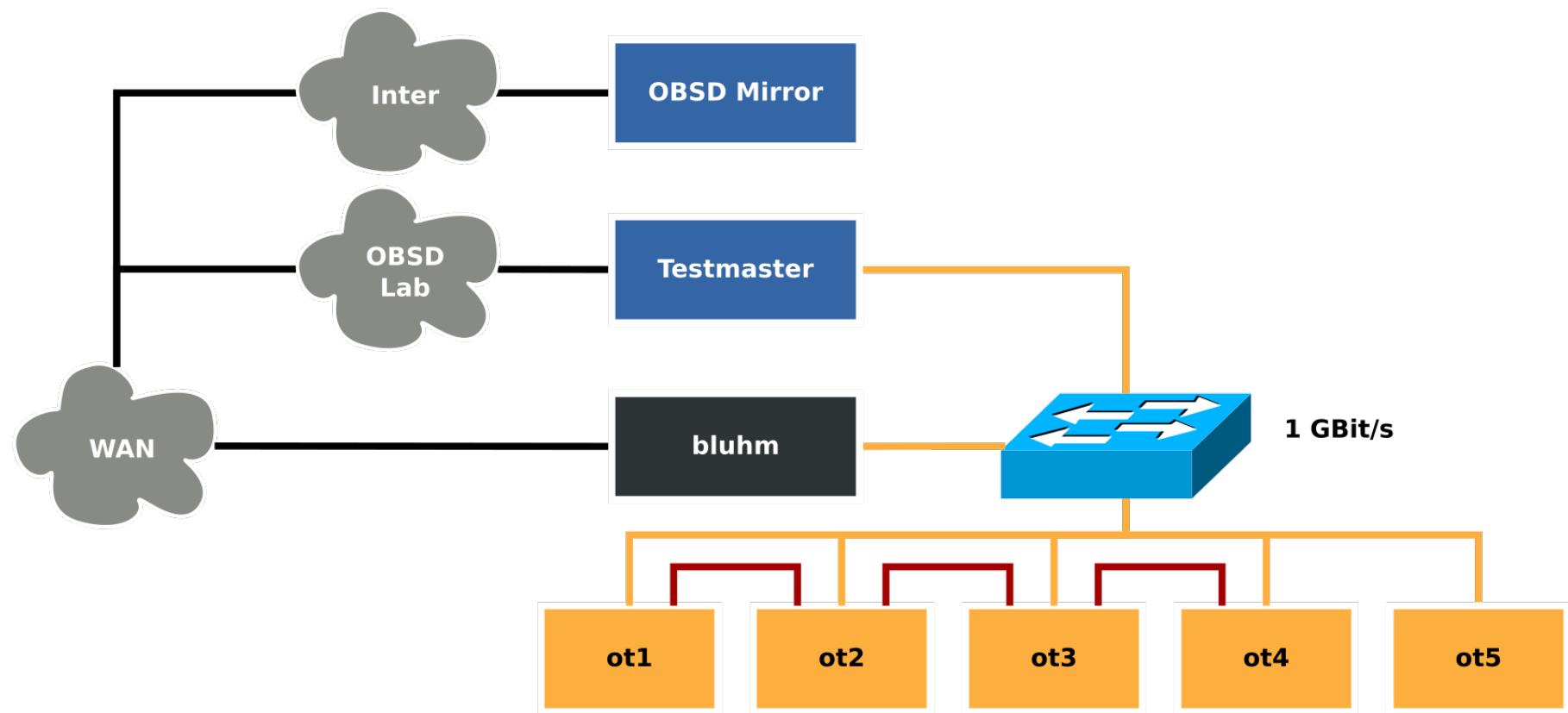


# Diff/Regression Tests

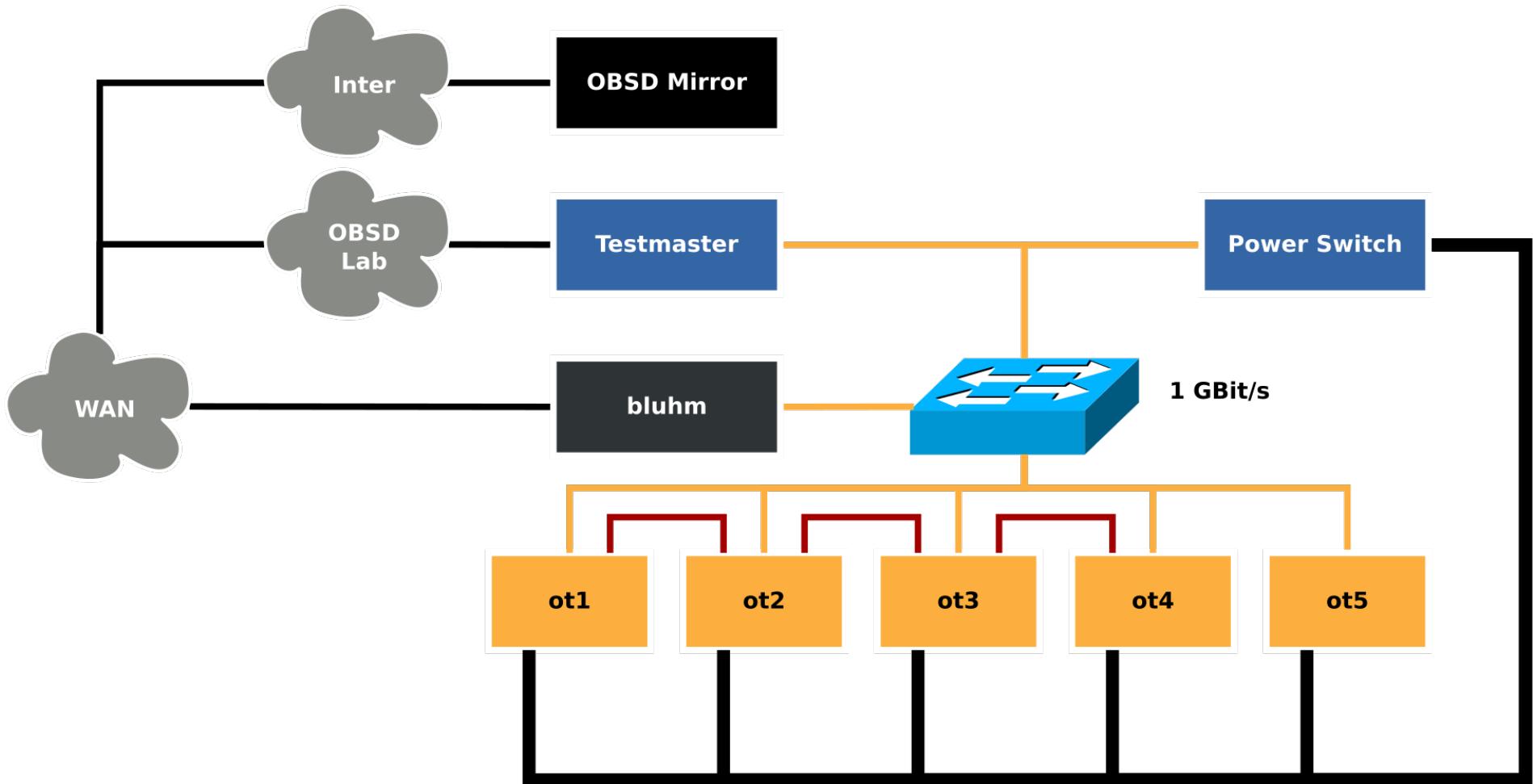




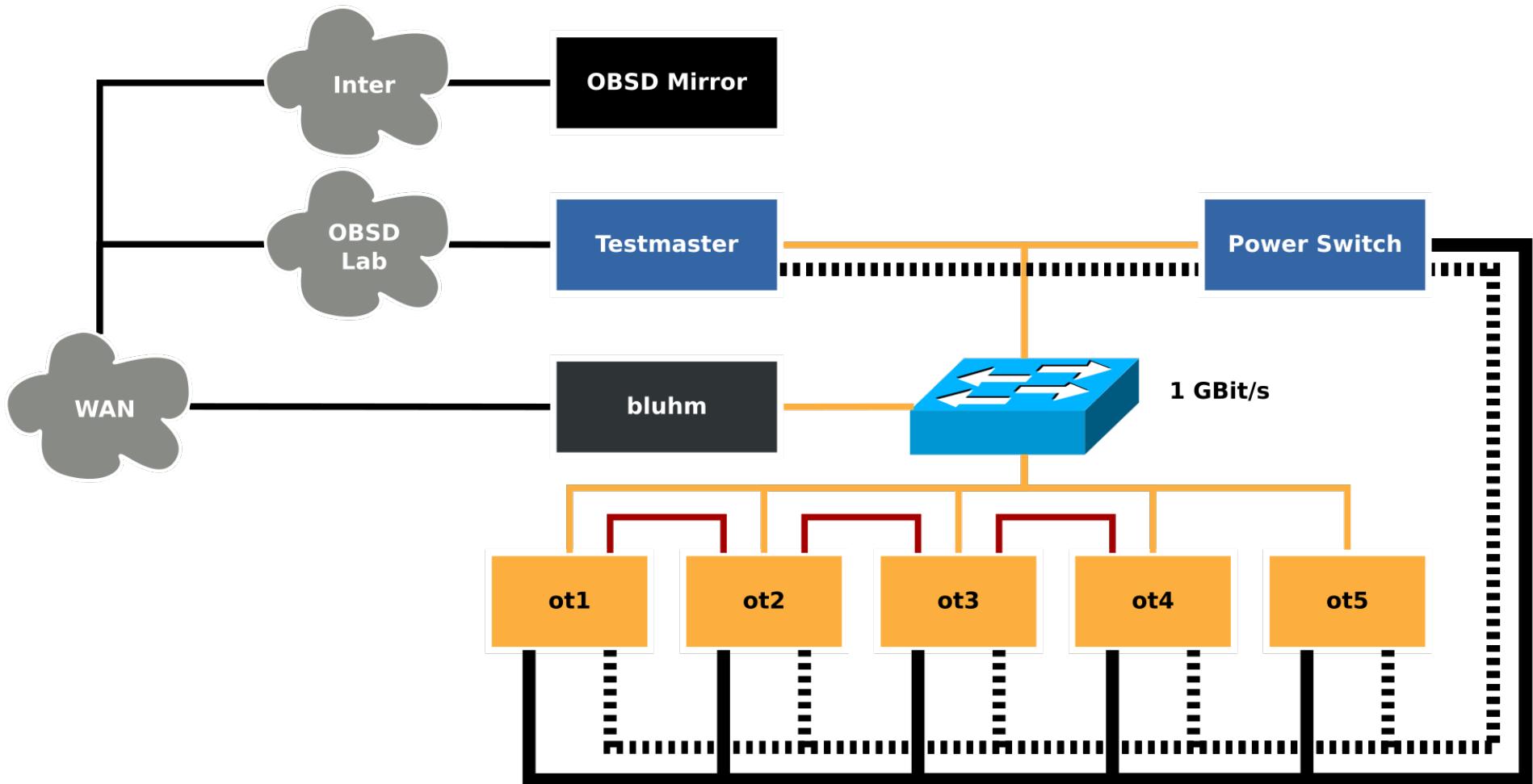
# Network



# Power



# Power



## **ssh commands**

**ssh [machine]@testmaster [command]**

**ot1**

**ot2**

**ot3**

**ot4**

**ot5**

**install**

**upgrade**

**lock / free**

**on / off / cycle**



## **/etc/ssh/sshd\_config**

• • •

Match User ot1

**ForceCommand /home/test/bin/run.sh**

X11Forwarding no

AllowAgentForwarding no

PermitOpen 10.0.1.21:22

• • •



## /home/test/bin/run.sh

```
#!/bin/sh

action="$SSH_ORIGINAL_COMMAND"
setenv="/usr/local/bin/envdir /home/$USER/env"
PATH="/home/test/bin:$PATH"

case "$action" in
    ""|"console")
        exec /usr/local/bin/console "$USER"
        ;;
    "on"|"off"|"cycle")
        if $setenv checklock.sh; then
            exec $setenv power.sh "$action"
        fi
        ;;
    ...
usac

exit 1
```



## /etc/conserver.cf

```
default cyclades {
    type device;
    baud 115200;
    parity none;
}

console ot1 {
    include cyclades;
device /dev/cuac1;
rw ot1;
}

access * {
    limited ot1,ot2,ot3,ot4,ot5;
}
```



## /home/ot1/.ssh/authorized\_keys

```
environment="testuser=jklemkow" ssh-rsa AAAAB3NzaC1yc2EAAAABI...  
environment="testuser=bluhm"     ssh-rsa AAAAB3NzaC1yc2EAAAABI...  
environment="testuser=bluhm"     ssh-rsa AAAAB3NzaC1yc2EAAAABI...
```



**/home/ot1/env**

```
machine      => ot1
arch        => i386
ipaddr      => 10.0.1.21
hwaddr      => 00:30:48:8c:50:20
```

• • •



## /home/test/bin/install.sh

- read config via envdir(1)
- load pxeboot, bsd.rd for a mirror
- modify dhcpcd.conf
- reboot or power cycle
- autoinstall from local mirror



## Testing and Debug Environment

- clean current snapshot
- cvs source code via NFS
- packages from a local mirror
- direct console access to ddb(9)
- remote power switch



# Problems



## Problems

- "- race conditions
- " pxeboot runs /bsd



# Future



## Future

- more Architectures
  - ARM
  - Sparc64
  - PowerPC (Thanks to mpi@)
  - MIPS64 (Thanks to chris@)



## Future

- Upload Binaries
  - upload to /var/spool/tftp/...
  - add a switch for dhcpcd.conf



## Future

- E-Mail Interface
  - forward diffs from tech@
  - automatic install
  - apply diff
  - build
  - run regress
  - feedback by mail



# **Questions?**



**Thanks!**



## **Quick&Dirty Repository**

<https://github.com/younix/testmaster>

