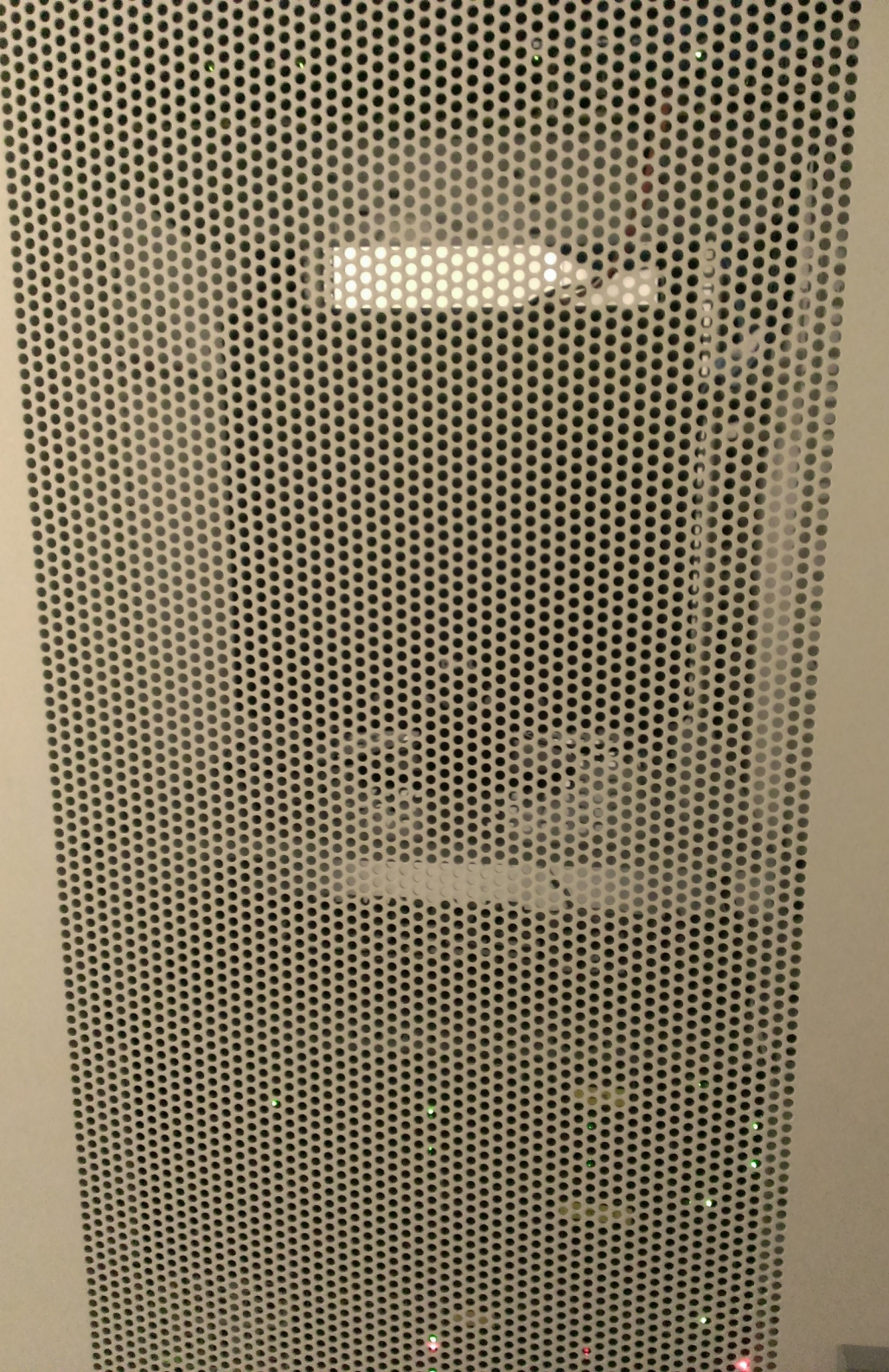


OCF servers

a very brief overview



The server rack

Three main physical servers

jaws

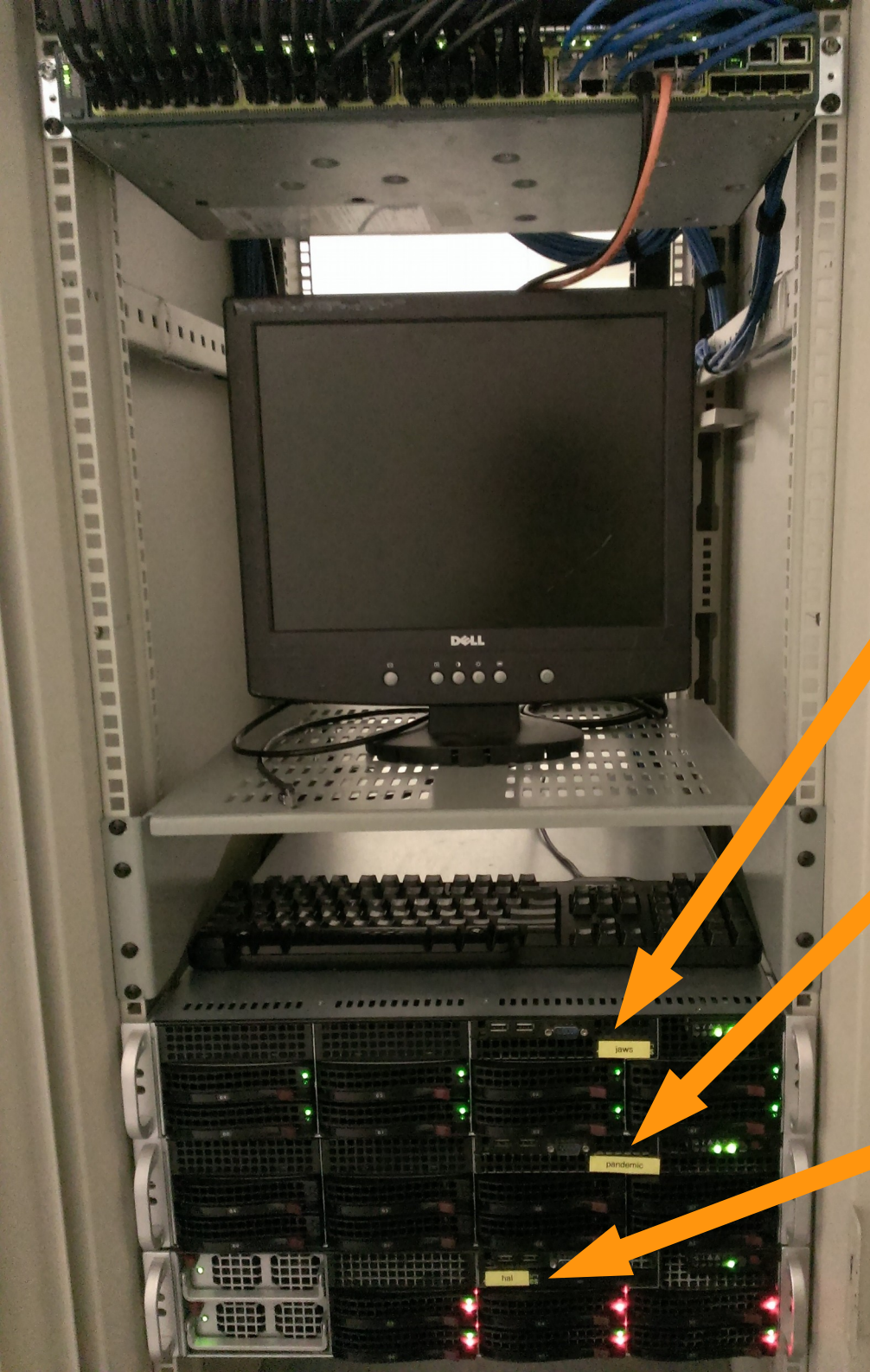
newest, fastest
production servers and nfs

pandemic

dev/staging server
software mirroring

hal

mega old
staff VMs and backups





Three main physical servers

blackhole
fancy network switch



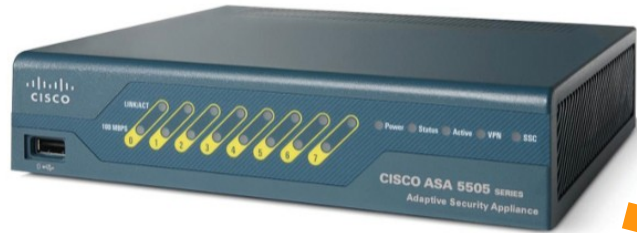
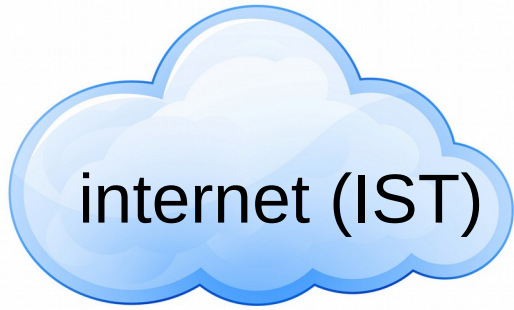
**Three main physical
servers**

see <https://ocf.io/servers>

OCF internet/networking border

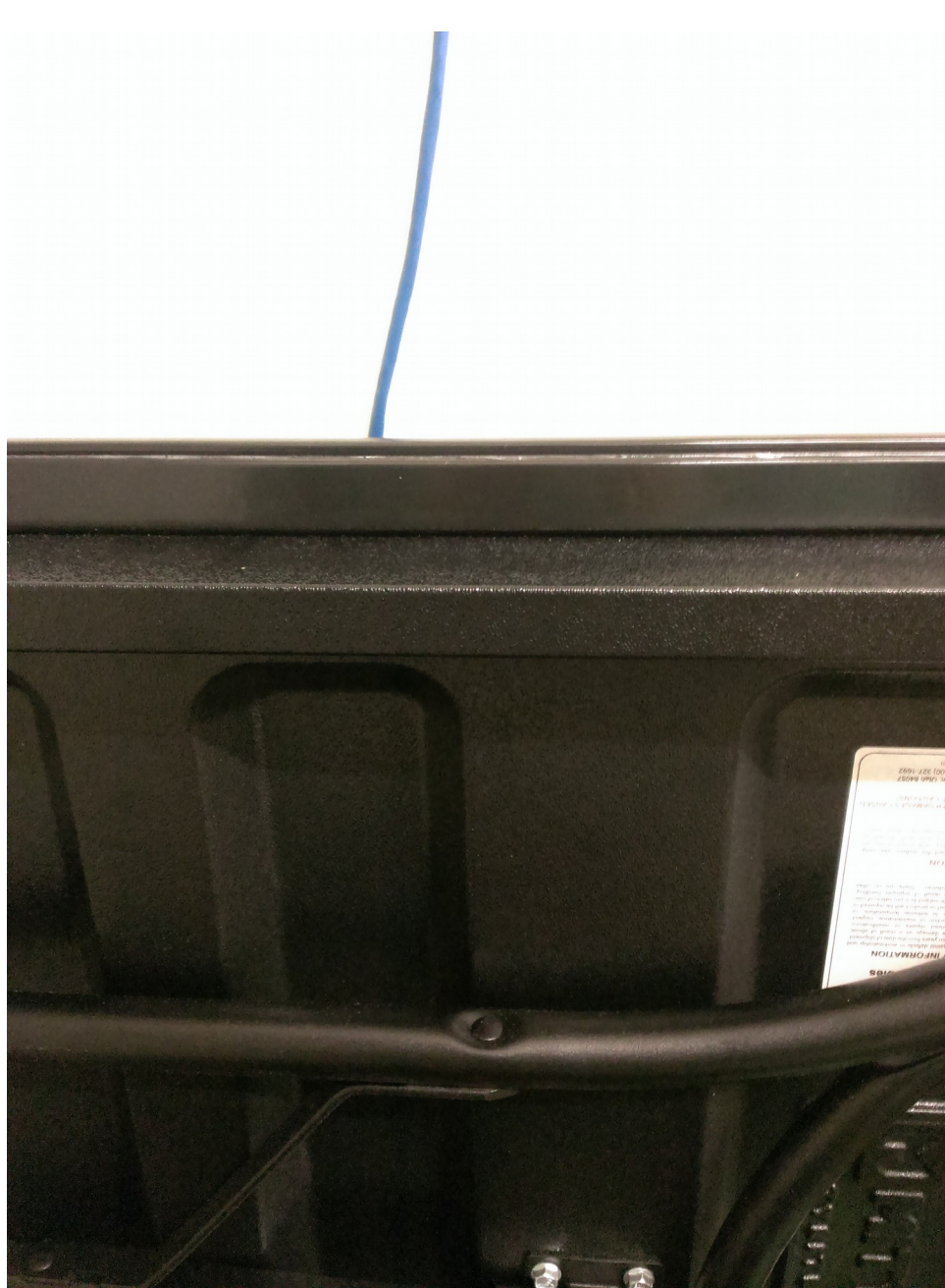
(and how to access OCF from outside)

ocf internet setup



cisco firewall
(owned by IST)

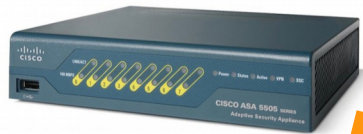




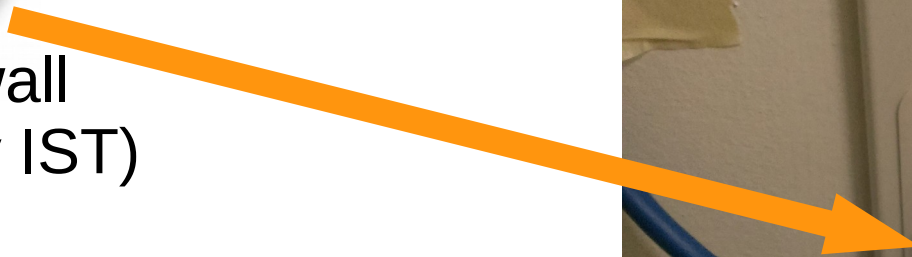
ethernet jack in our
server room



ethernet jack in our
server room

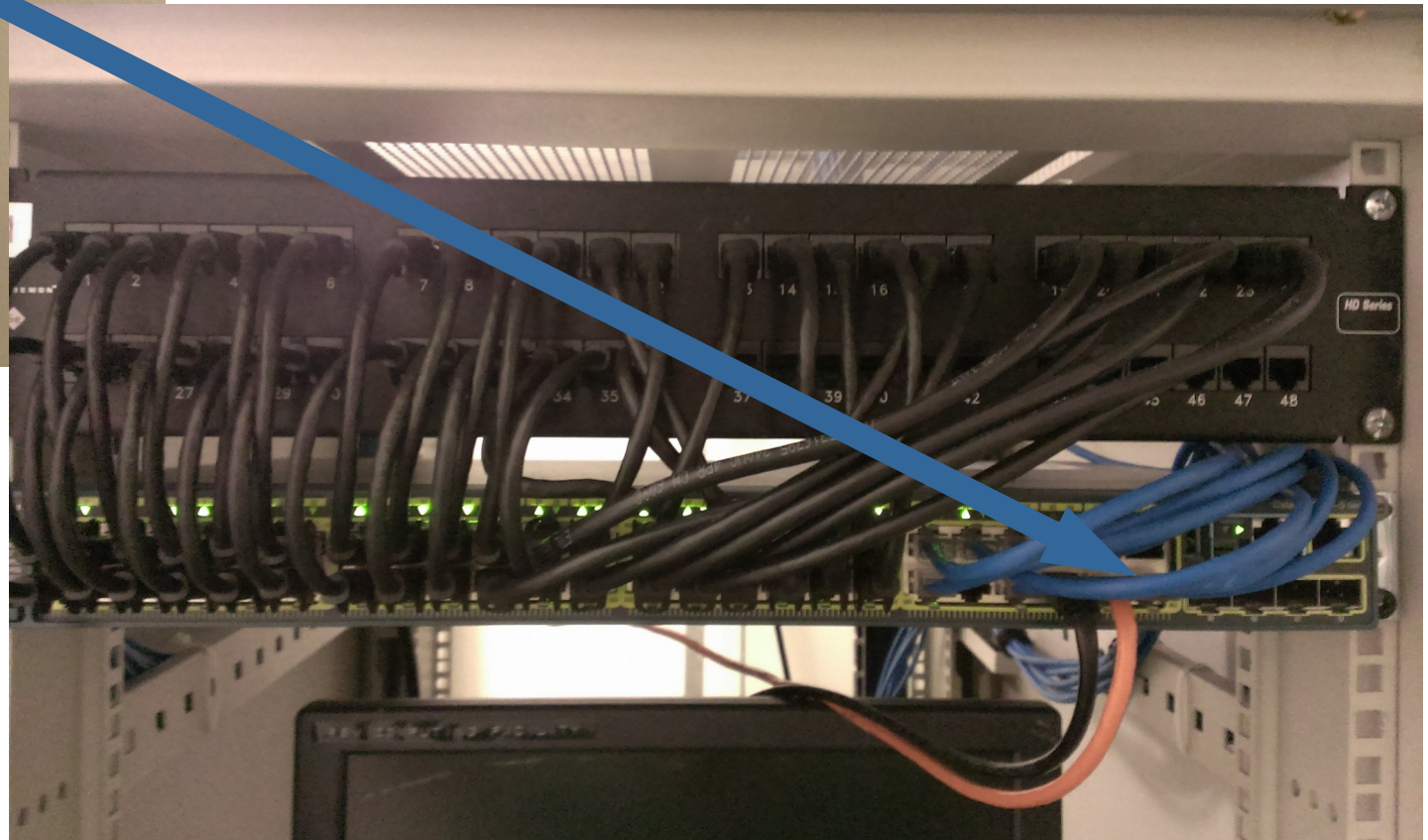


cisco firewall
(owned by IST)



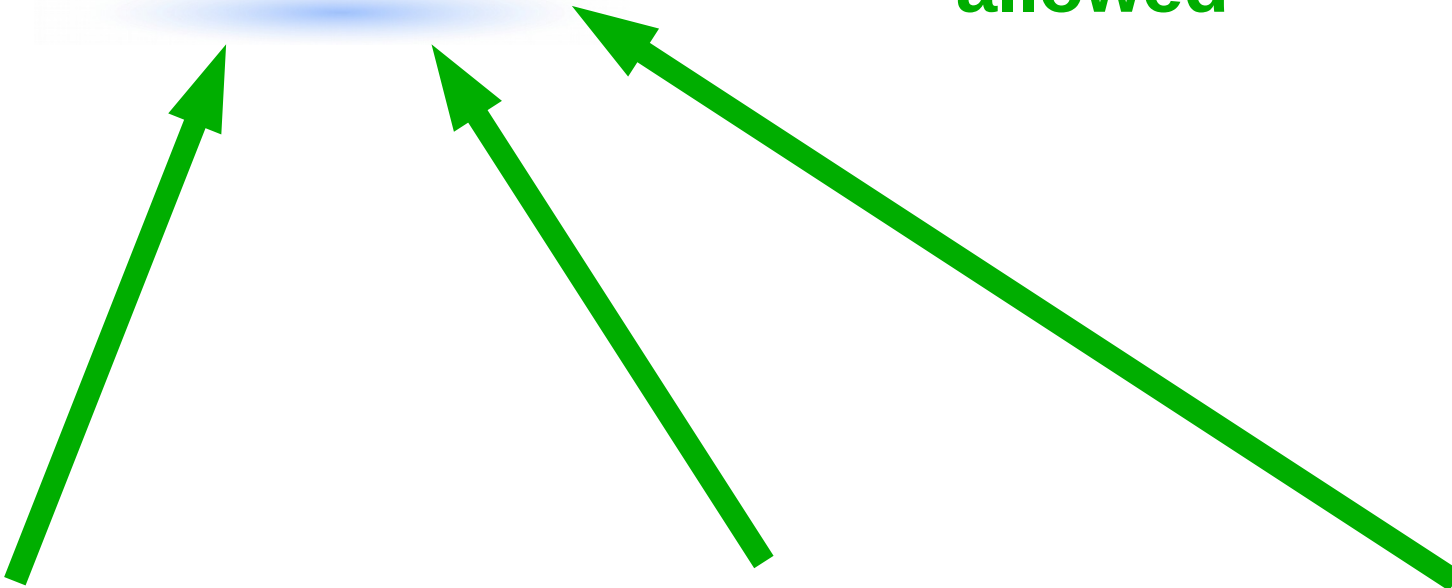
ethernet jack in our
server room

blackhole connected to internet
everything connected to blackhole





**all outbound traffic
allowed***



***one exception: email (for spam reasons)**

desktops
(computer lab)

services
(web, email, ...)

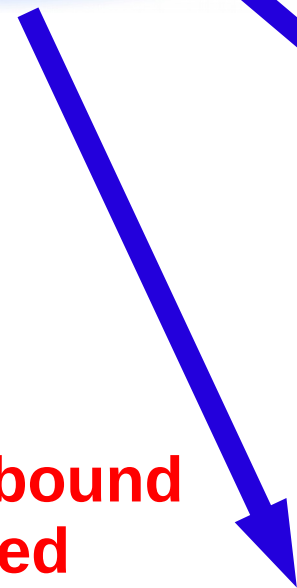
login
(ssh)



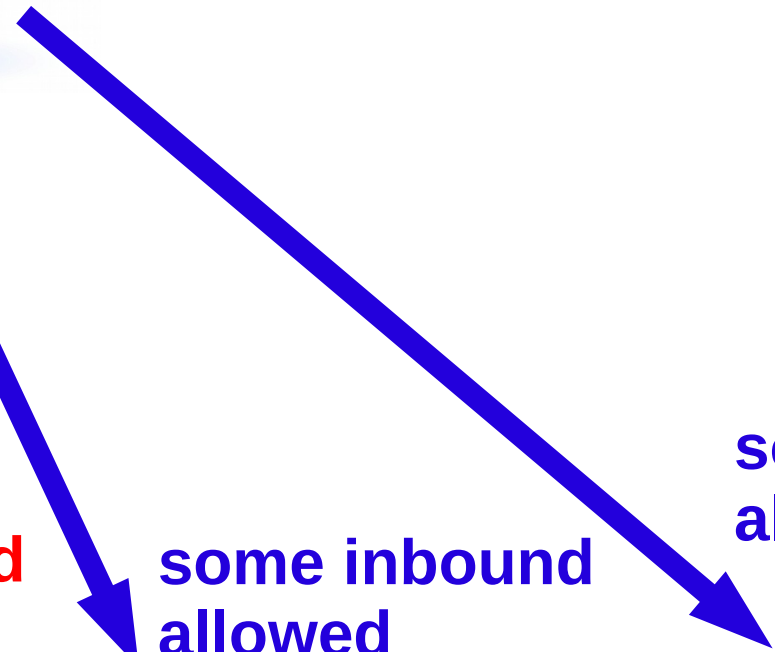
all outbound traffic allowed*



no inbound allowed



some inbound allowed



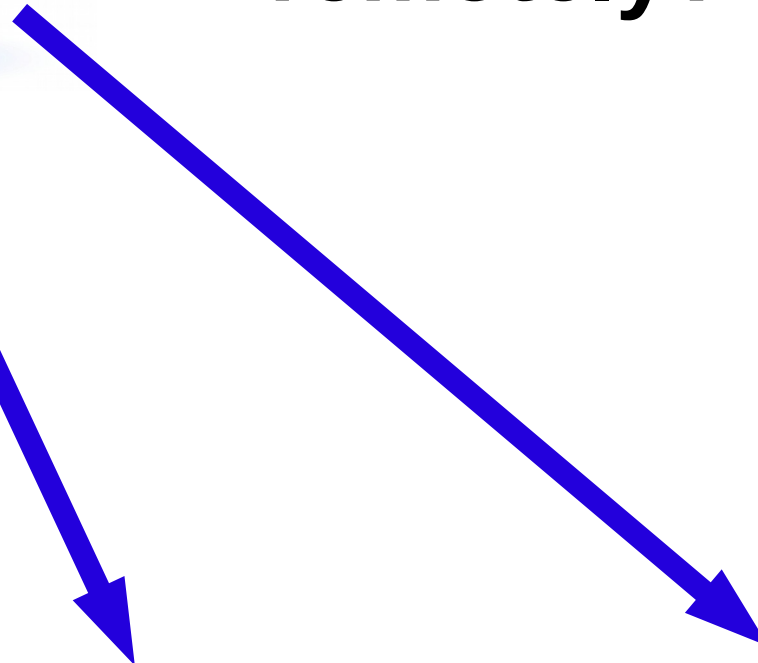
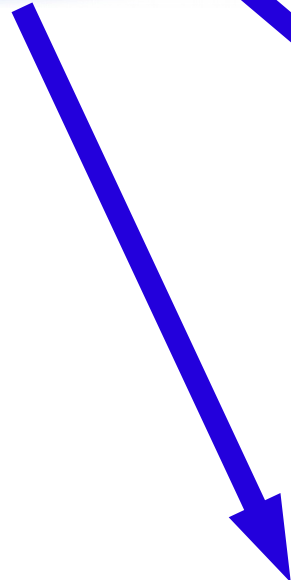
some inbound allowed (ssh)

desktops
(computer lab)

services
(web, email, ...)

login
(ssh)

**what if I want to access
a desktop or server
remotely?**



desktops
(computer lab)

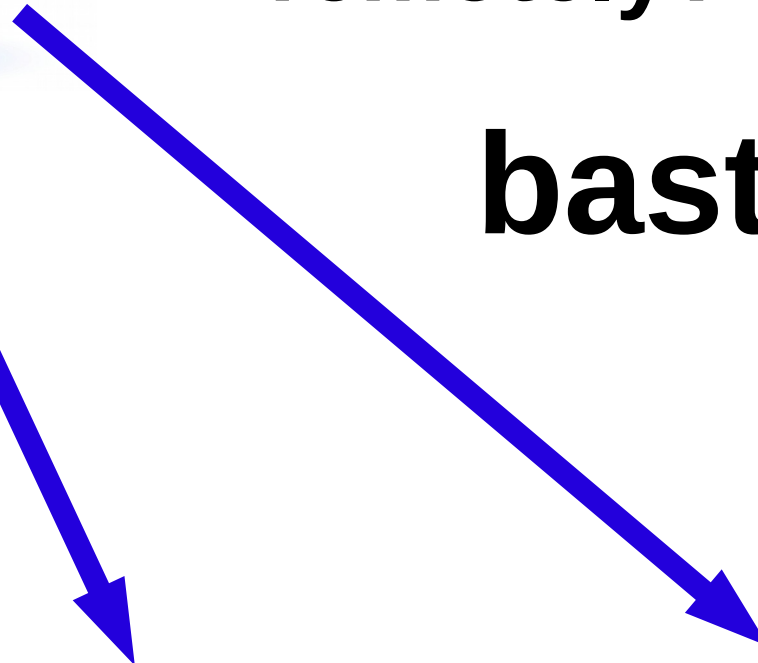
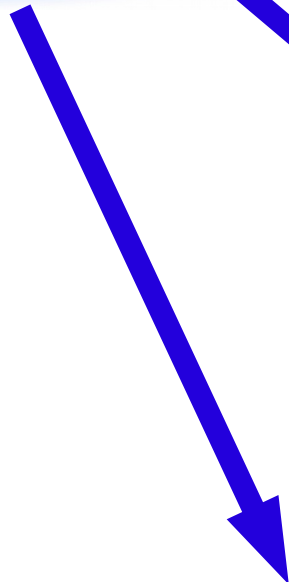
services
(web, email, ...)

login
(ssh)



what if I want to access
a desktop or server
remotely?

bastions!



desktops
(computer lab)

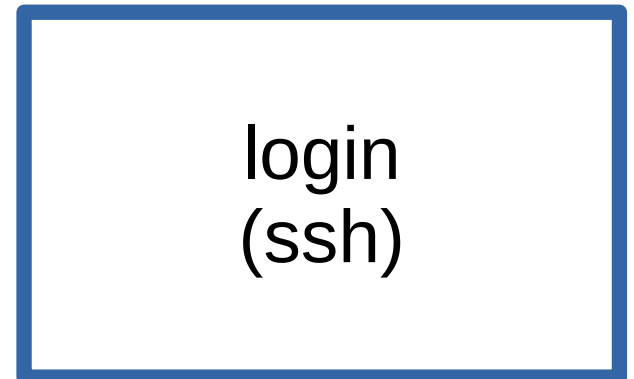
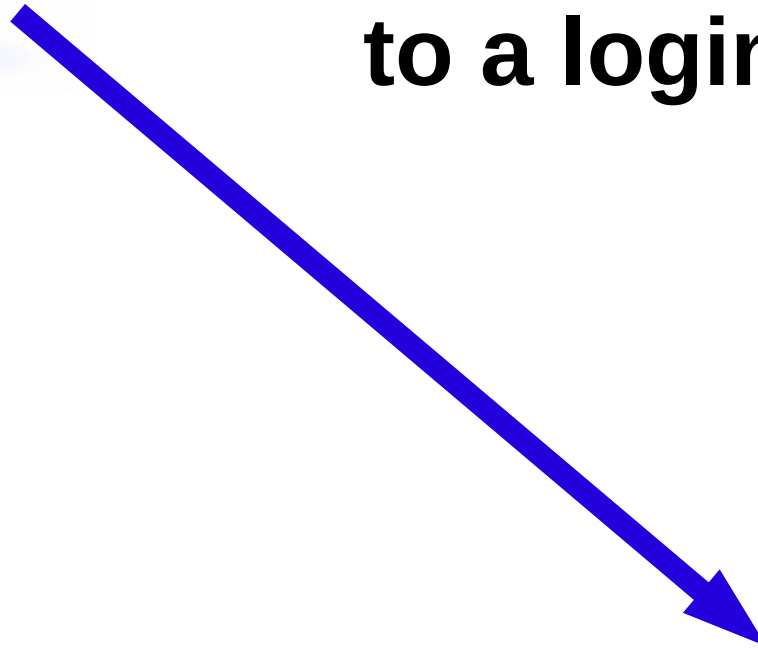
services
(web, email, ...)

login
(ssh)



bastions!

**first, connect via SSH
to a login server**

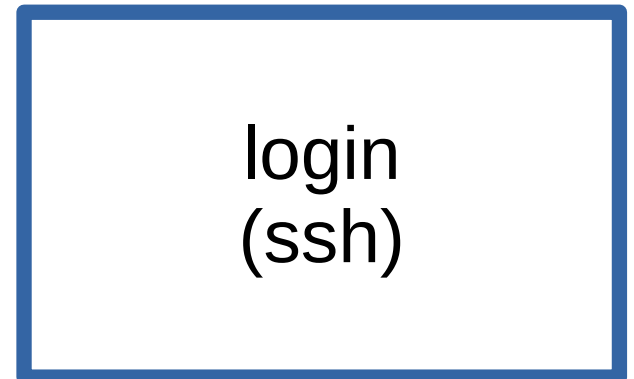
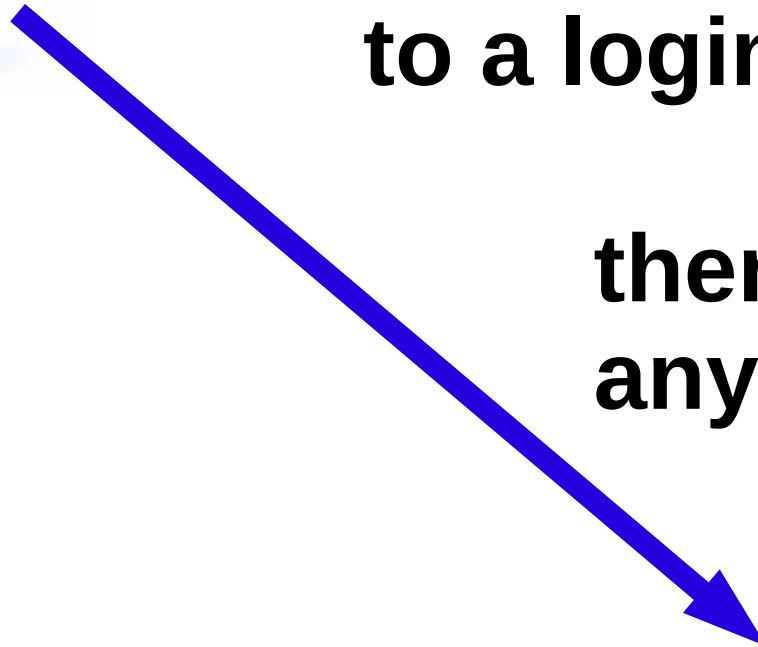




bastions!

**first, connect via SSH
to a login server**

**then, connect to
anything else**



OCF has two login servers:

tsunami

public, all OCF users can access it

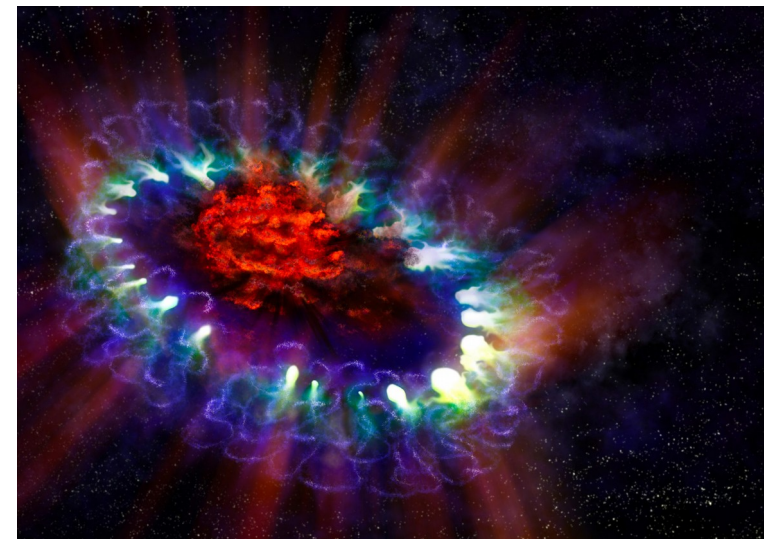
no access to other OCF stuff



supernova

private, only OCF staff can access it

full access to other OCF stuff



always connect to supernova first!

```
mattmcal@eruption:~$ ssh mattmcal@supernova.ocf.berkeley.edu
```

first step: SSH to supernova from your machine

always connect to supernova first!

```
mattmcal@eruption:~$ ssh mattmcal@supernova.ocf.berkeley.edu
Hi, I am supernova, a virtual server at 169.229.226.36.
Staff login server, plus host of create (account creation service).
- Puppet classes: ocf_admin
- Puppet environment: ckuehl
- DNS names: admin, create

Last login: Mon Sep 12 17:57:51 2016 from eruption.ocf.berkeley.edu
mattmcal@supernova ~ $ ssh anthrax
```

second step: SSH to some other server from
your laptop (e.g. anthrax)

always connect to supernova first!

```
mattmcal@eruption:~$ ssh mattmcal@supernova.ocf.berkeley.edu
Hi, I am supernova, a virtual server at 169.229.226.36.
Staff login server, plus host of create (account creation service).
- Puppet classes: ocf_admin
- Puppet environment: ckuehl
- DNS names: admin, create

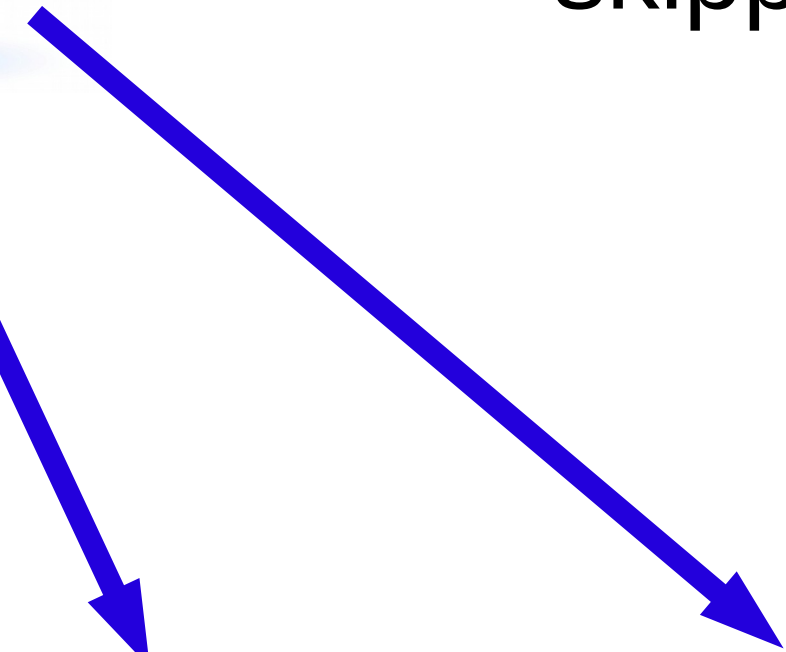
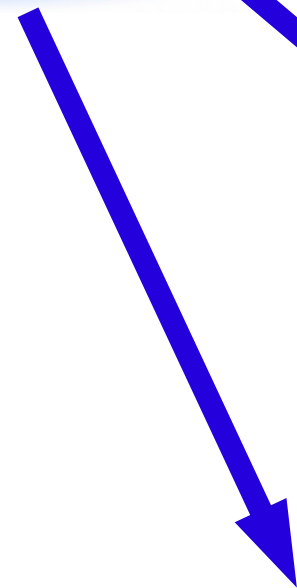
Last login: Mon Sep 12 17:57:51 2016 from eruption.ocf.berkeley.edu
mattmcal@supernova ~ $ ssh anthrax
mattmcal@anthrax's password:
Hi, I am anthrax, a virtual server at 169.229.226.35.
Primary mail server, for use by internal systems, staff, and forwarding for users.
- Puppet classes: ocf_mail, ocf_mail::site_ocf
- DNS names: mail, smtp

Last login: Mon Sep 12 17:58:01 2016 from supernova.ocf.berkeley.edu
mattmcal@anthrax:~$ █
```

third step: do whatever!



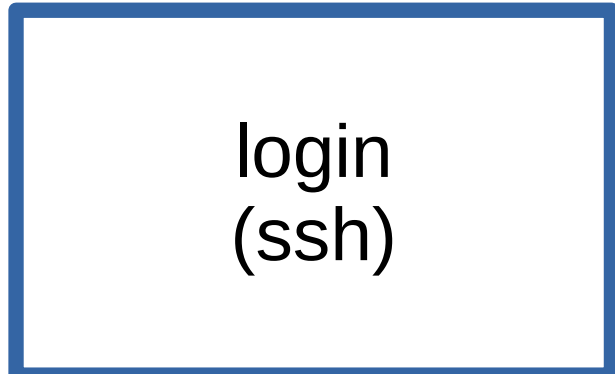
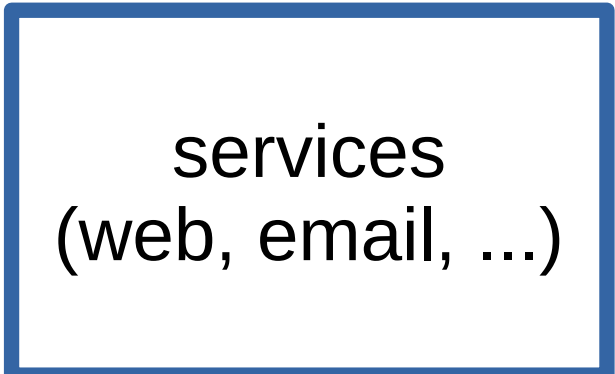
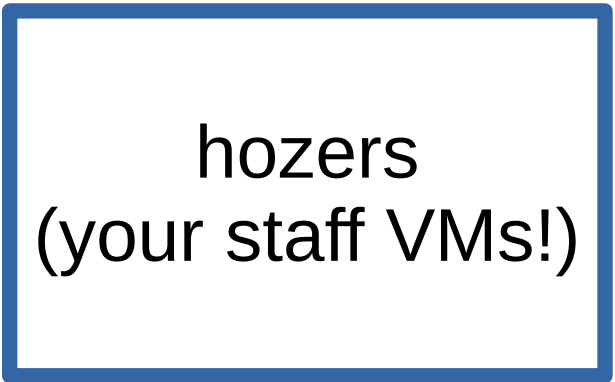
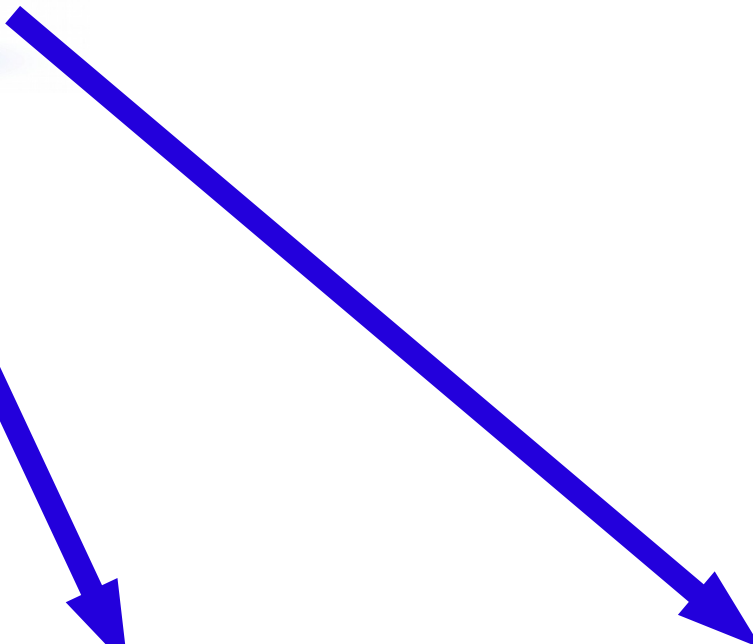
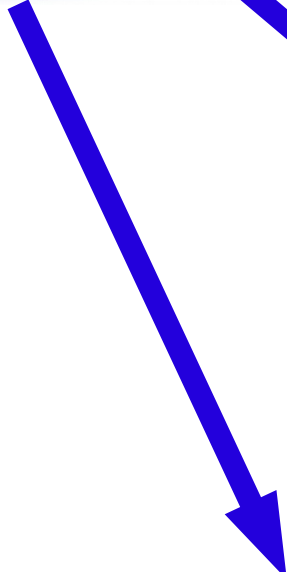
one thing we
skipped...



desktops
(computer lab)

services
(web, email, ...)

login
(ssh)



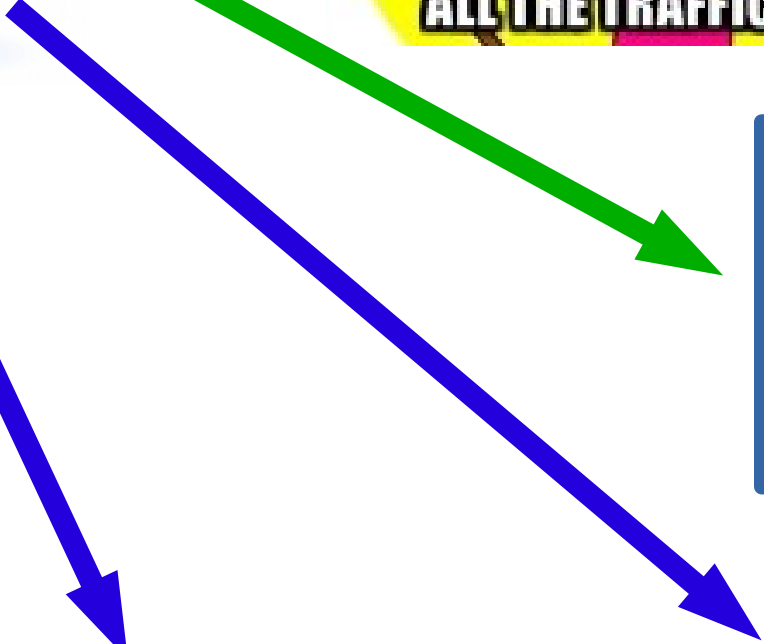
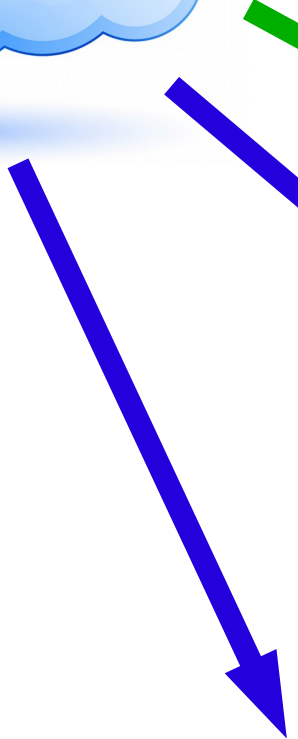


hozers
(your staff VMs!)

desktops
(computer lab)

services
(web, email, ...)

login
(ssh)



congrats!

now you can log in to the OCF!