

Top 10 Network Issues in Apache CloudStack

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Agenda

- Introduction
- Top 10 Network Issues
- Q&A



VLAN Issues 1

- Switch misconfiguration
 - Symptoms
 - All VLANs trunked by default? Or denied?
- Other network problems



VLAN Issues 2

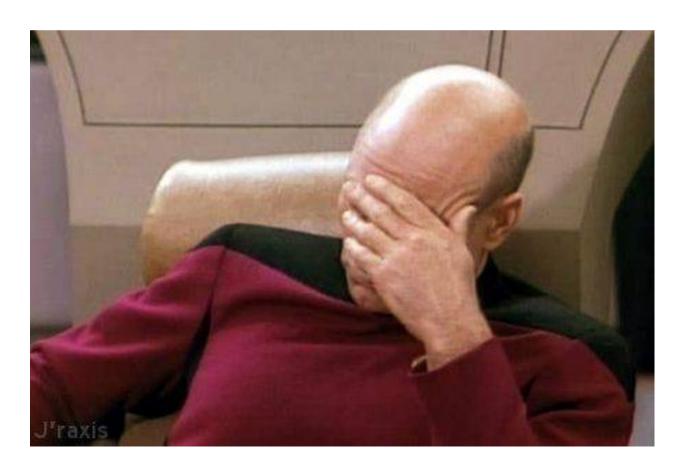
- Hypervisor problems
 - NIC drivers
 - Bonding
 - xe-switch-network-backend?
 - Cabling
 - VLAN scaling
- Database hacking
 - Stop that!





Open vSwitch

- Default on XenServer / XCP
 - VMware + Nicira?
- Weirdness
- ovs-appctl





Security Groups

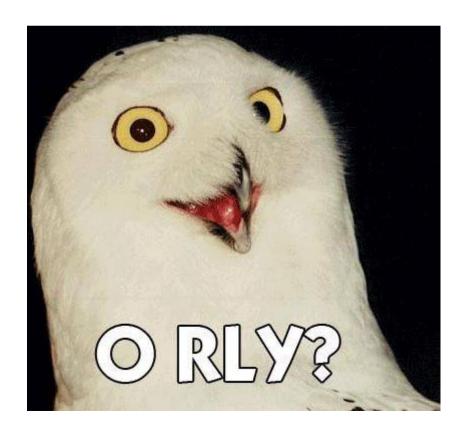
- KVM
 - Works out of the box (unless it doesn't)
- XenServer / XCP
 - Must enable Linux bridge back-end
 - Must install CSP (XS <6.1)
- vSphere...





"Host" Connectivity

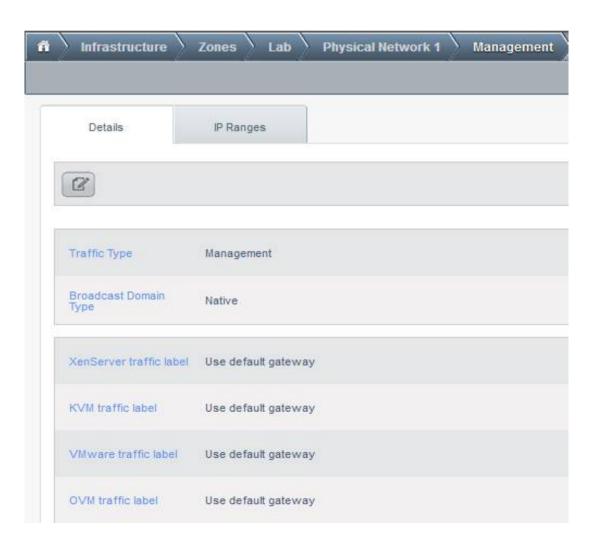
- Hypervisors
- System VMs
- Secondary Storage
 - Alert status is normal





CloudStack "Physical Networks"

- Not necessarily "physical"
- Traffic labels
 - Multiple NICs
 - Mgmt. traffic
 on a VLAN





Console Proxy VM

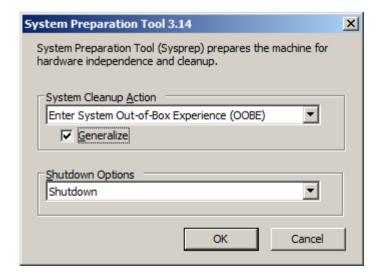
- Connectivity to CPVM
 - Management server
 - End-users (web browser)
- realhostip.com
- SSL certificate
 - Wildcard, or include all possible hostnames
 - a-b-c-d.yourdomain.tld
- Problem?
 - Destroy CPVM





Templates

- eth0, or is it eth1? Or maybe p192p1?
- "sysprep" for Windows, your own solution for Linux
- Prepare in CloudStack environment?
- Can't "import" them?





Password Reset Feature

- Reset script problems
 - DHCP client and version
- Daemon problems
 - 8080/tcp on virtual router
 - socat process, serve_password.sh



User- and Meta-data

- Where is it?
- Problems?
 - Stop/start VM
 - Stop/start virtual router
 - Destroy/recreate virtual router
 - Check management-server.log



Q&A

Any questions?

