

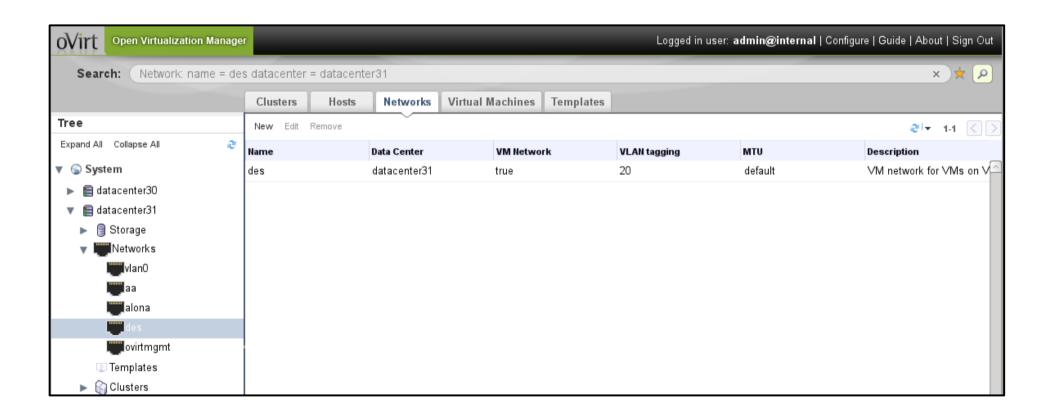
oVirt Networking

Ovirt workshop 2013

Livnat Peer Red Hat



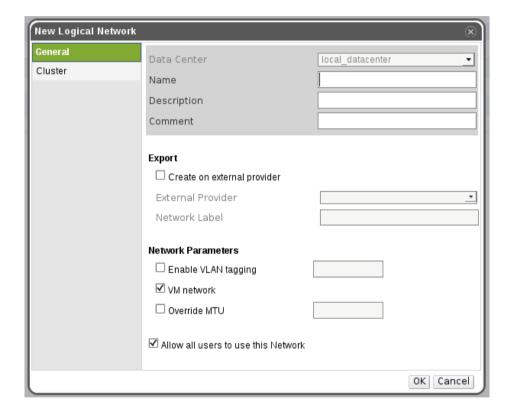
A logical entity that represents a layer 2 broadcast domain



Adding a new Network



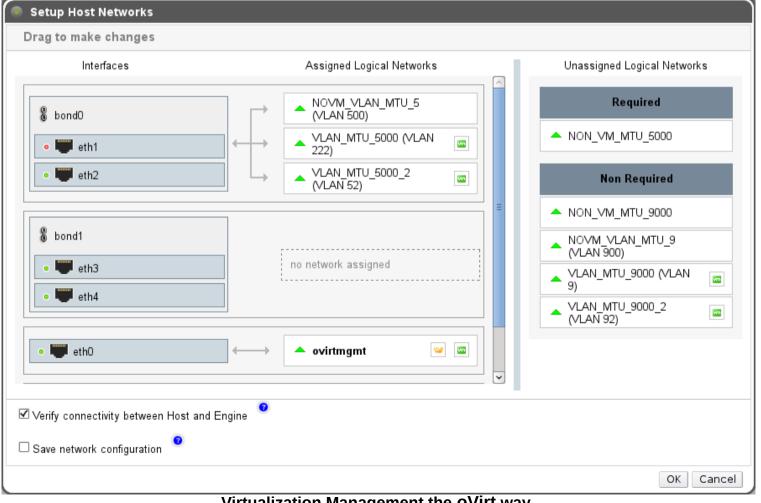
- Select a Data Center
- Define network properties (VLAN, MTU, Role)
- Make the network available in selected clusters





Host Level Configuration

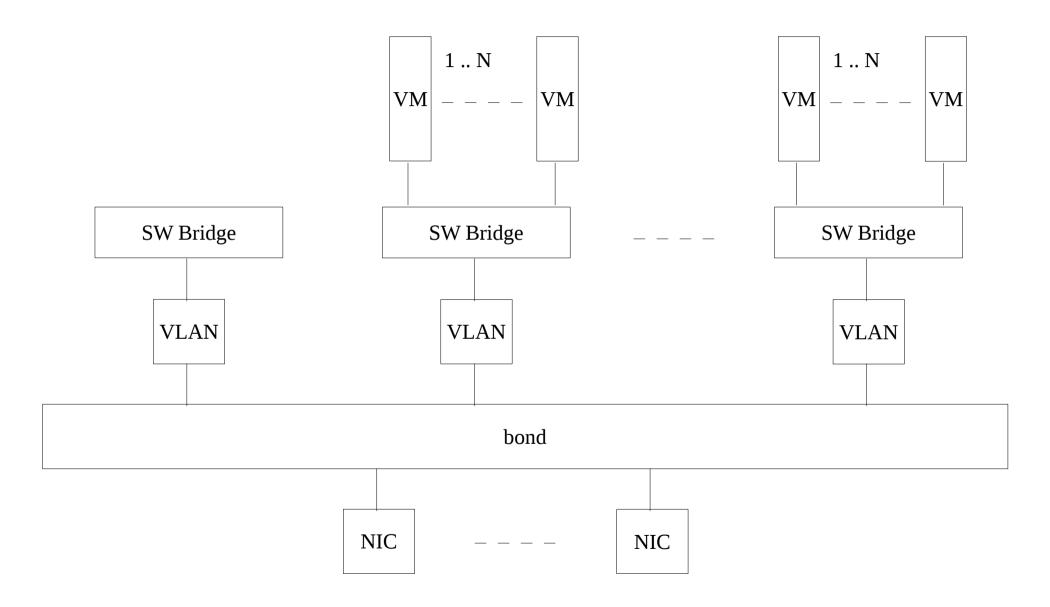
- Optional Vs. Required Networks
- Host level configuration:



Virtualization Management the oVirt way



Supported Configuration - Linux Bridge

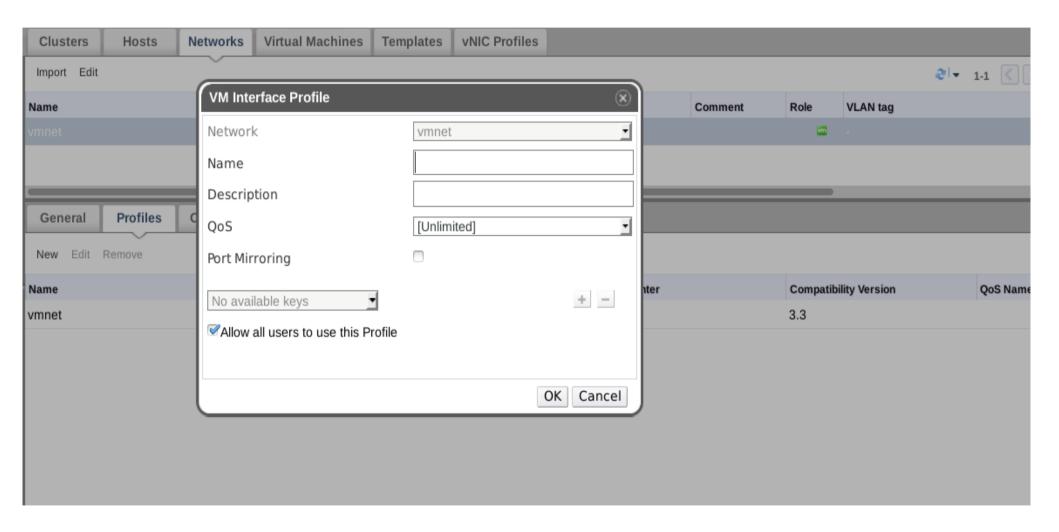




What's New in 3.3?









External Network Provider

- *Internal network* network that was added directly in oVirt
- *External network* network that is managed by an external network provider and is consumed within oVirt
- External network provider an independent network manager which collaborates with oVirt by implementing a predefined API.
- External networks can be discovered in oVirt and then can be used within oVirt for example in VMs.
- User can configure permissions on external networks once they are discovered, like they do for internal networks.

Network Provider API



- GetAllNetworks()
 - Retrieve list of all (external) networks on provider
- CreateNetwork()
 - Create new network on provider and import it
- UpdateNetwork()
 - Edit the network on the provider

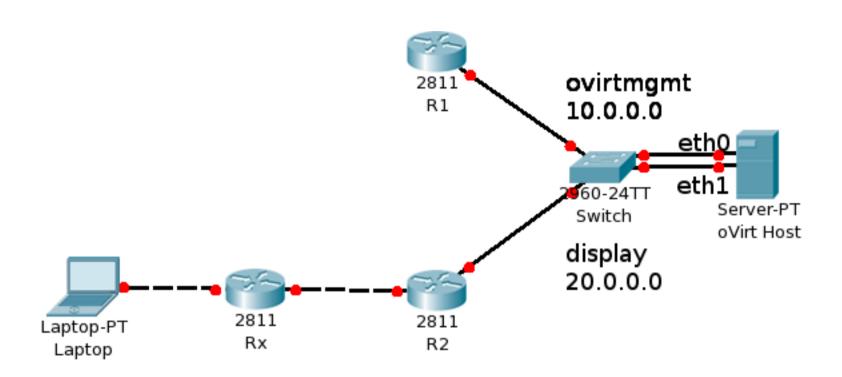
Neutron Integration



- Support different technologies
 - GRE tunnels
 - VXLAN
- Future leverage of
 - Security Groups
 - IPAM
 - L3 capabilities

Multiple /gateways





Architecture Changes in VDSM 3.3



- Configurators based architecture
- Technology oblivious persistence layer

Road Map



- Network Qos
- Host profiles
- Network Lables
- Private networks
- Cisco, VMFEX, UCS
- Neutron Integration con.
 - Security groups
 - IPAM, floating IP/NAT
- Configurable MAC pool
- SRIOV
- IPv6



THANK YOU!

http://www.ovirt.org