

Project/Assignment 3

Virtual Machines and Virtual Clusters

Team Member

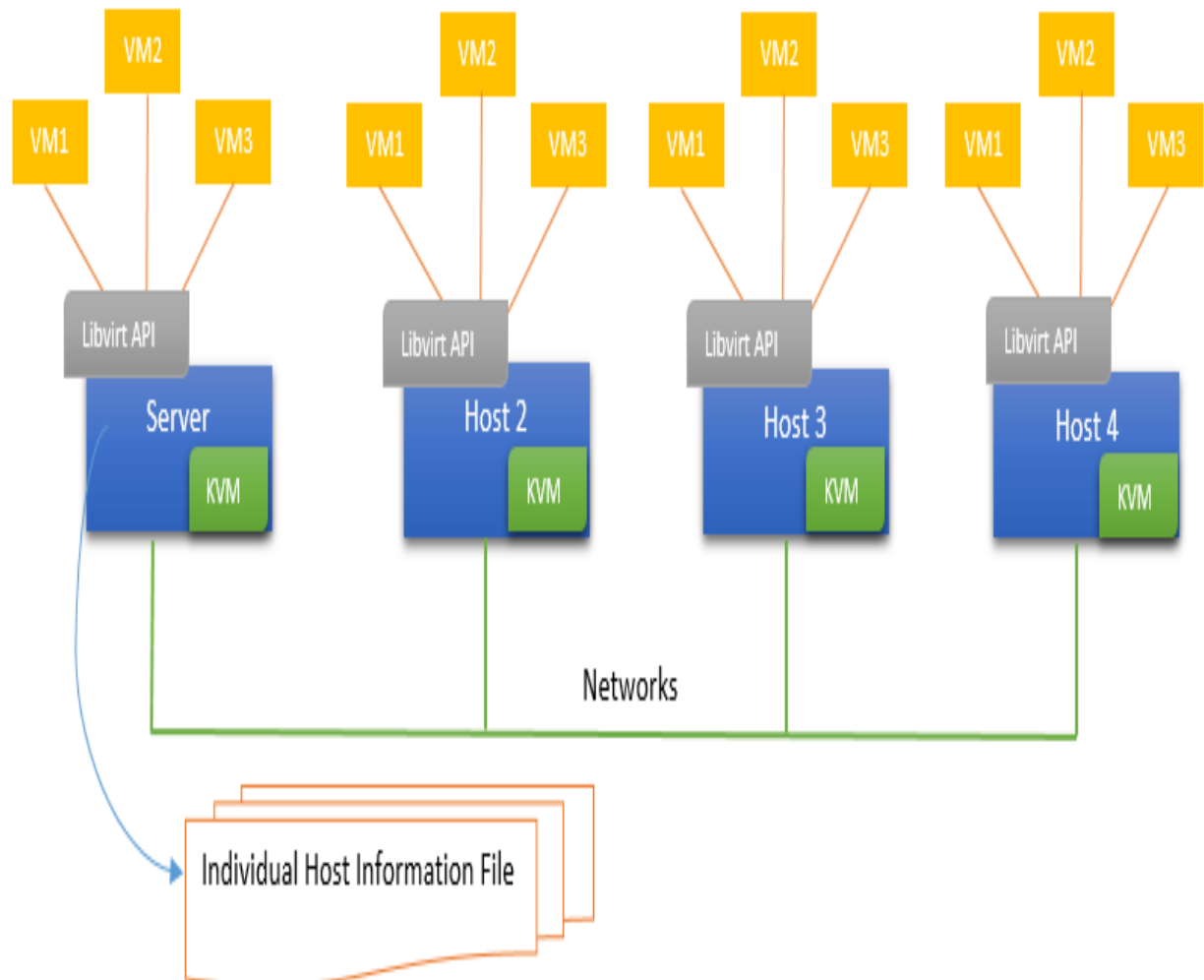
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➤ 1. Basic Architecture

1.1 Introduction

The following figure depicts basic architecture of our model. We have used KVM as a hypervisor. Libvirt api to handle virtual machine and used open-v-switch to create a virtual bridge.



1.2 Network Architecture

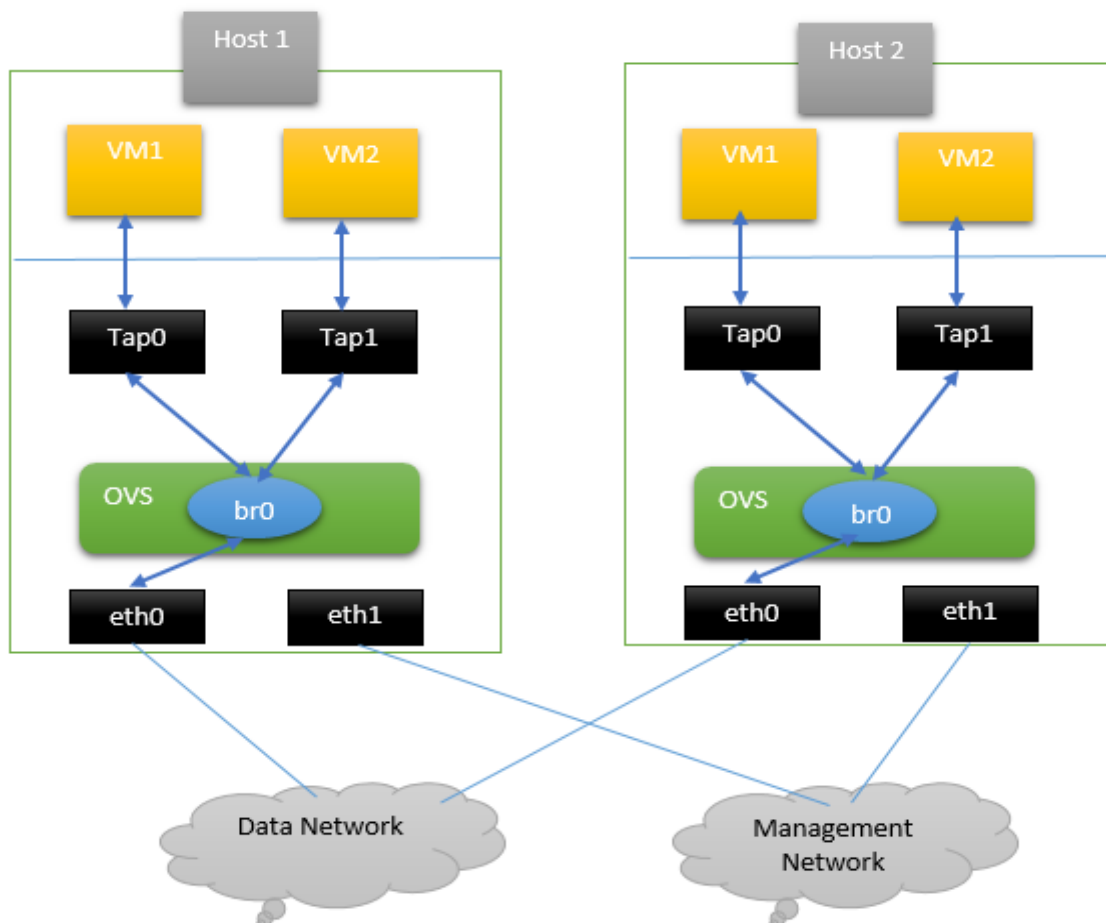
We have used open-v-switch in order to create a virtual bridge. We have used following commands to create a virtual bridge.

`Ovs-vsctl add-br br0` //this command will create a virtual bridge with name br0

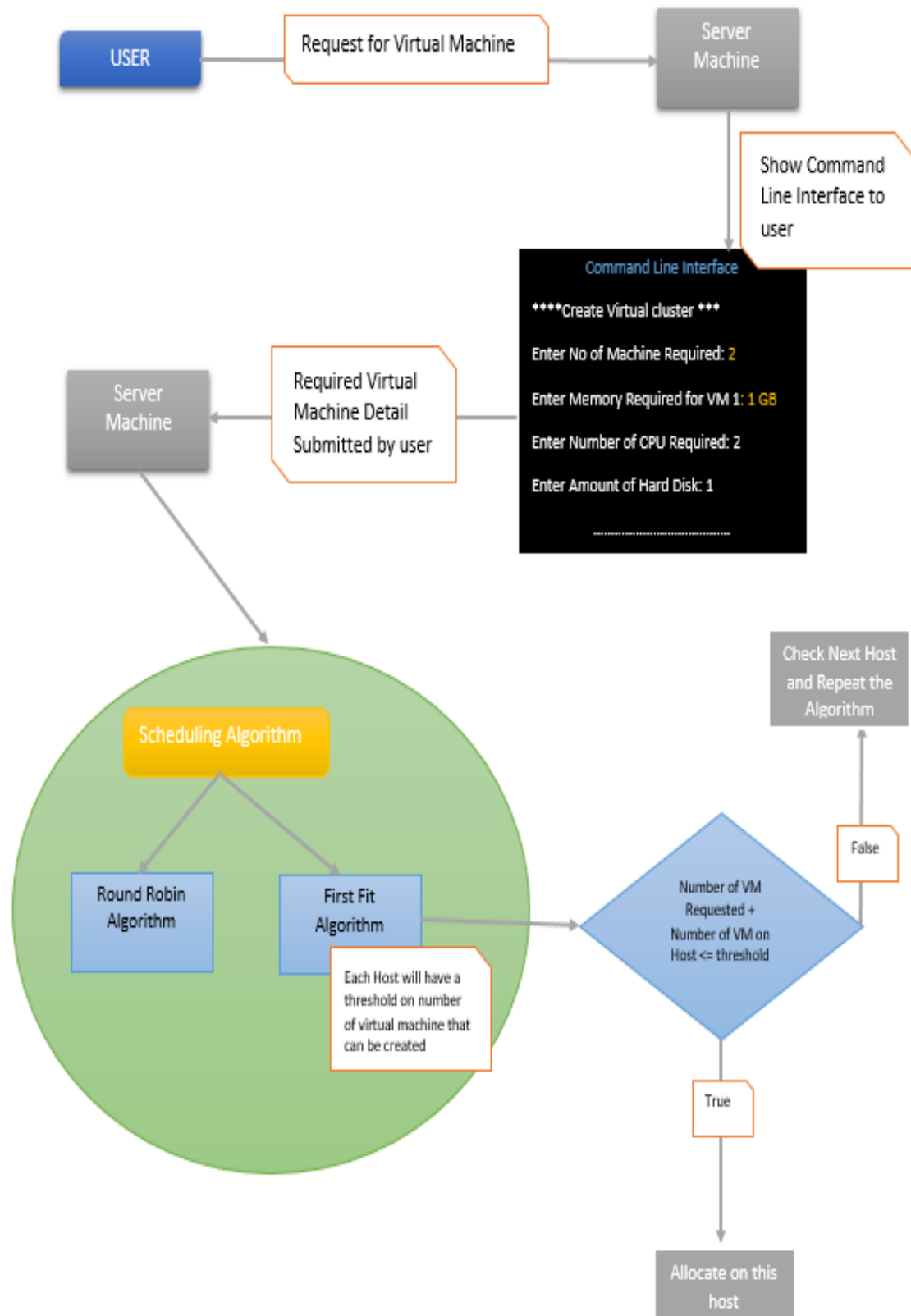
`Ovs-vsctl add-port br0 eth0` //this command will link the eth0 to bridge br0

`Ifconfig eth0 0` //to remove ip from eth0

`Dhclient br0`



1.3 Overall Working





2. References

1. <http://libvirt.org/html/index.html>
2. <https://www.youtube.com/watch?v=rYW7kQRyUvA>
3. http://git.openvswitch.org/cgi-bin/gitweb.cgi?p=openvswitch;a=blob_plain;f=INSTALL.Libvirt;hb=HEAD