

openstack basic knowledge

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history

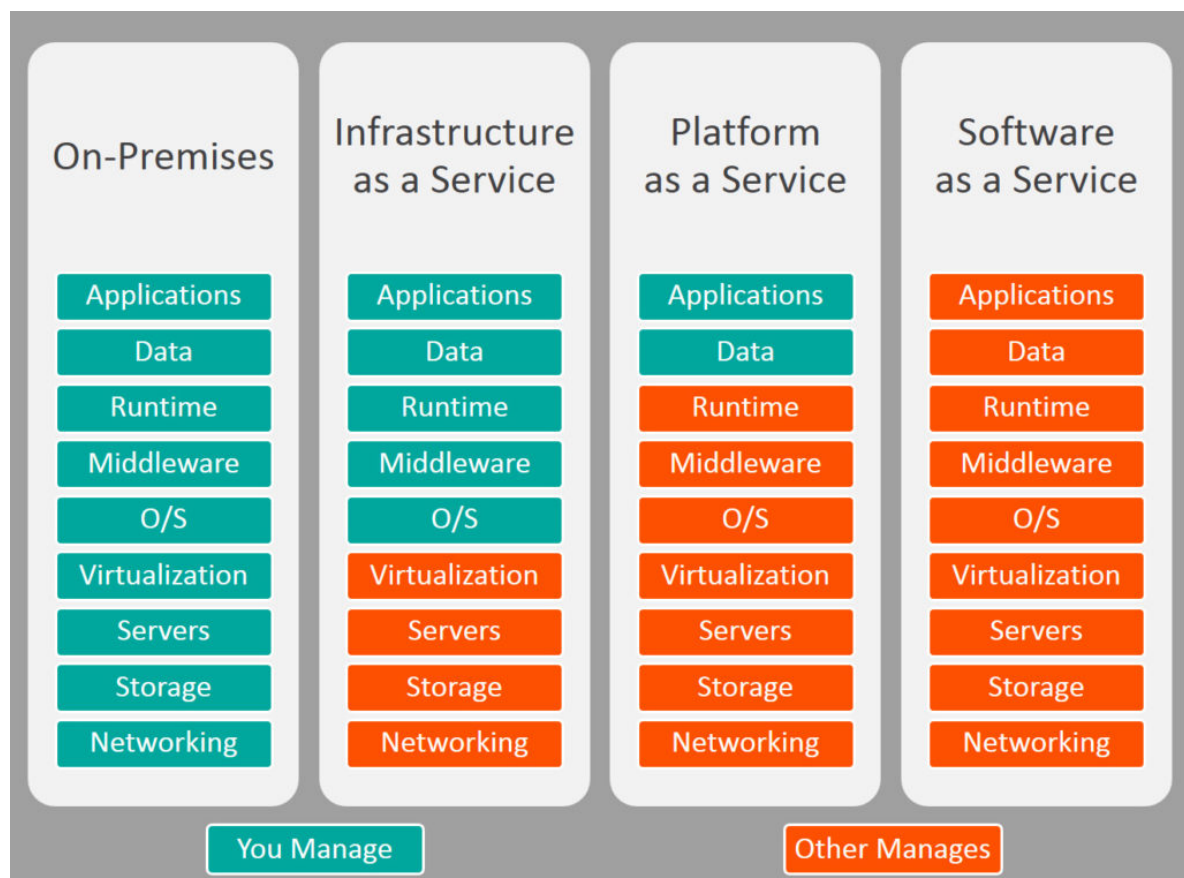
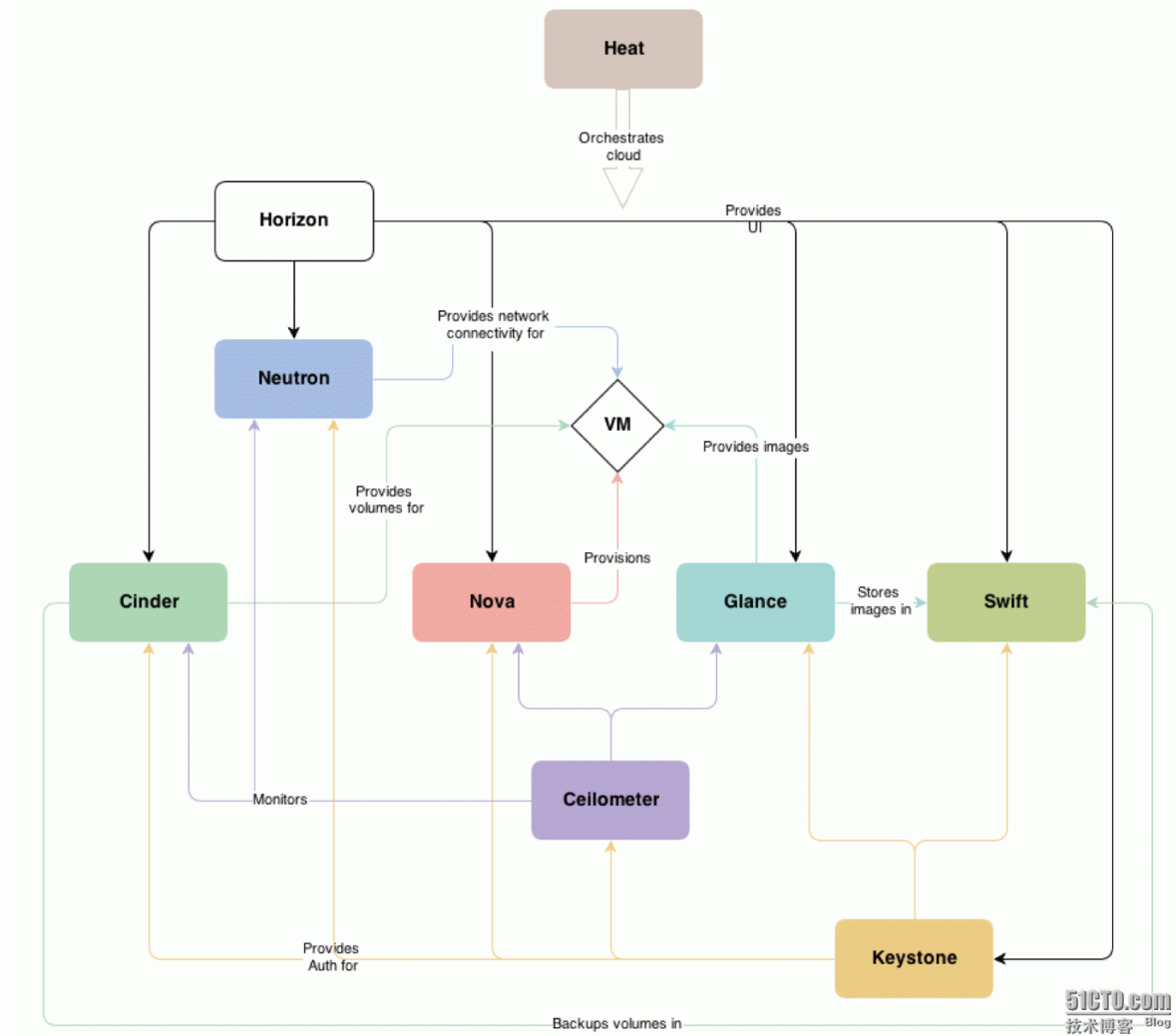


Figure 1.1. OpenStack conceptual architecture



[openstack tutorial](#) <spend 5 minutes each day to learn openstack>

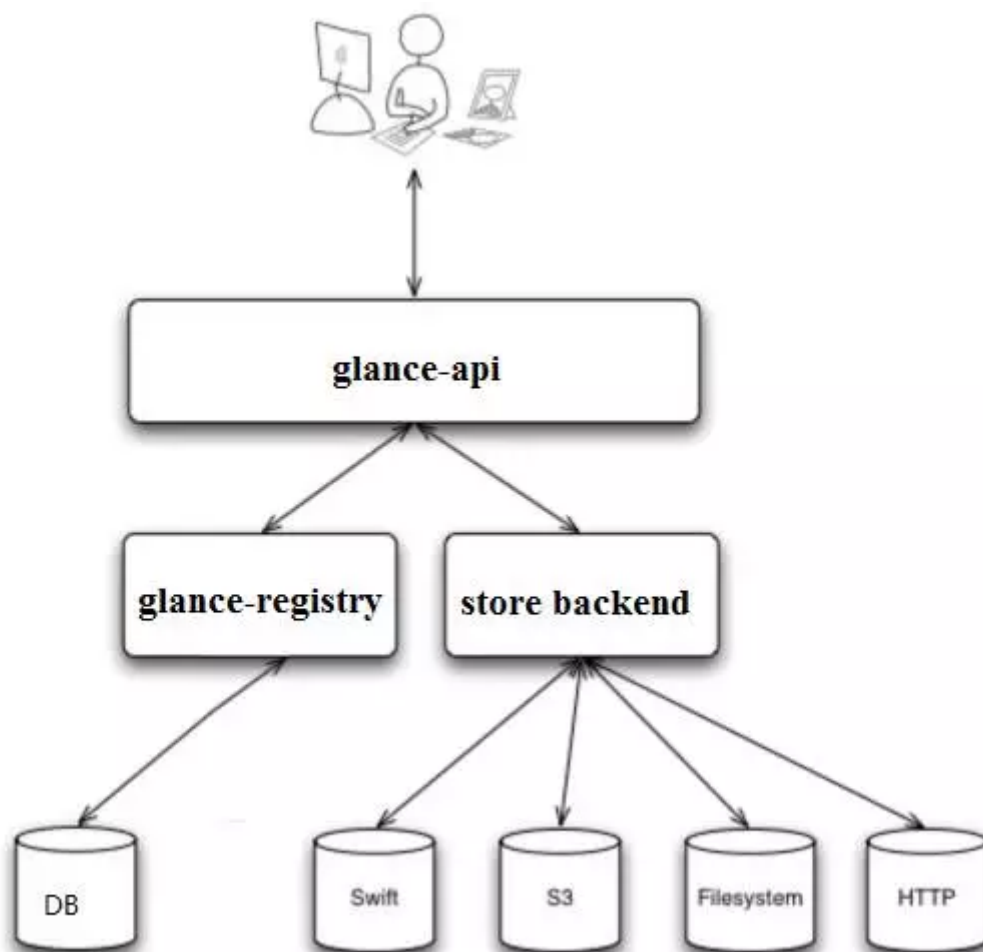
[OpenStack SR-IOV研究](#) (warning: pci_passthrough_whitelist in nova.conf need to be configured in correct section, which is not in default section)

[OpenStack从入门到放弃](#)

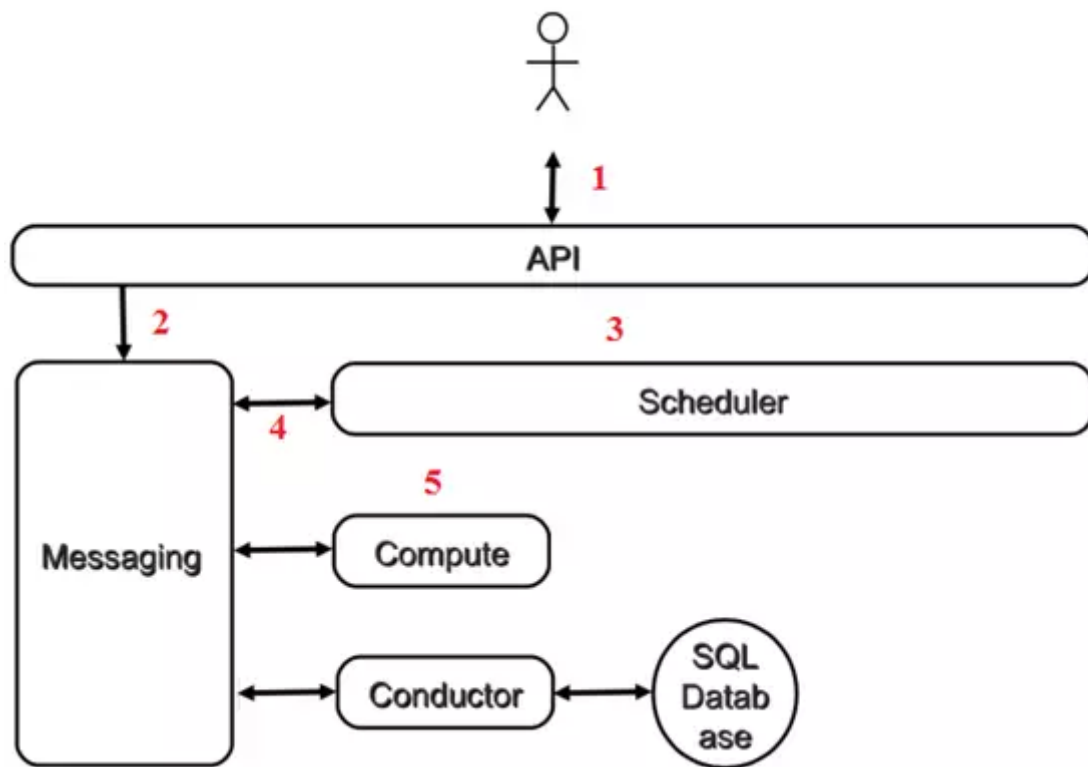
Keystone



glance

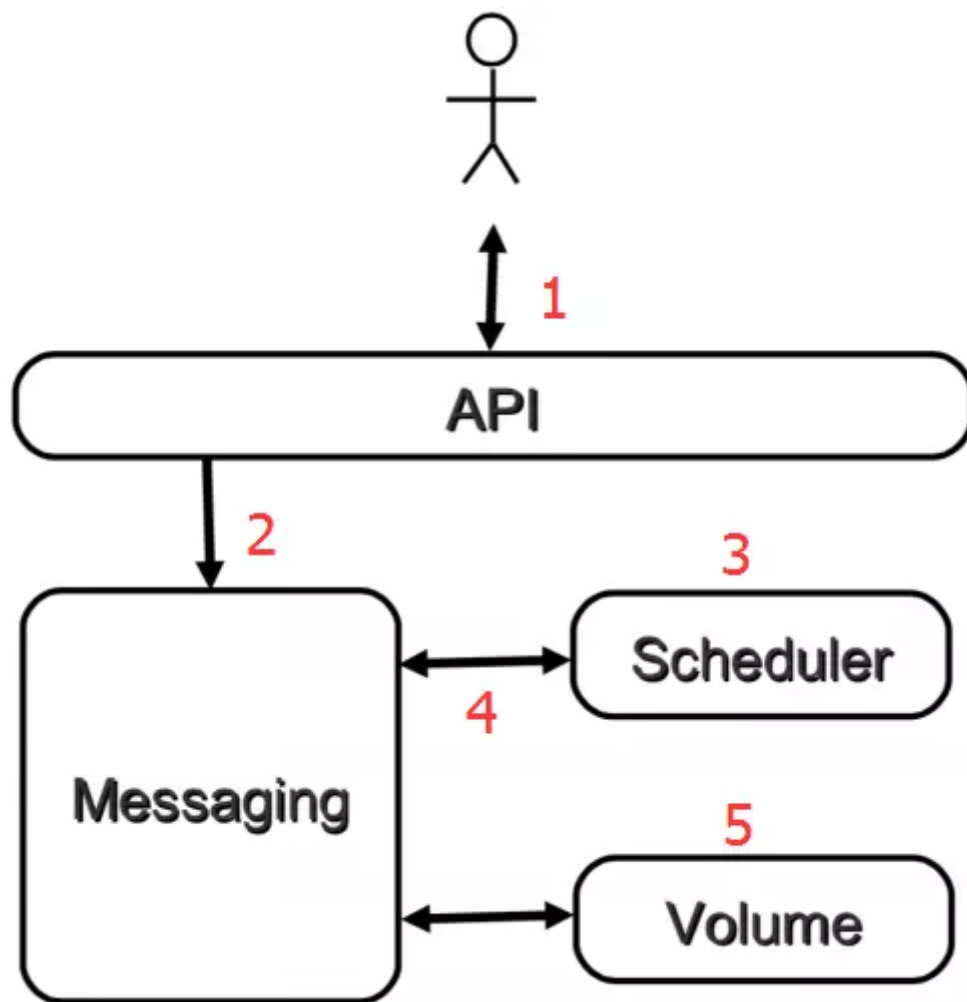


nova

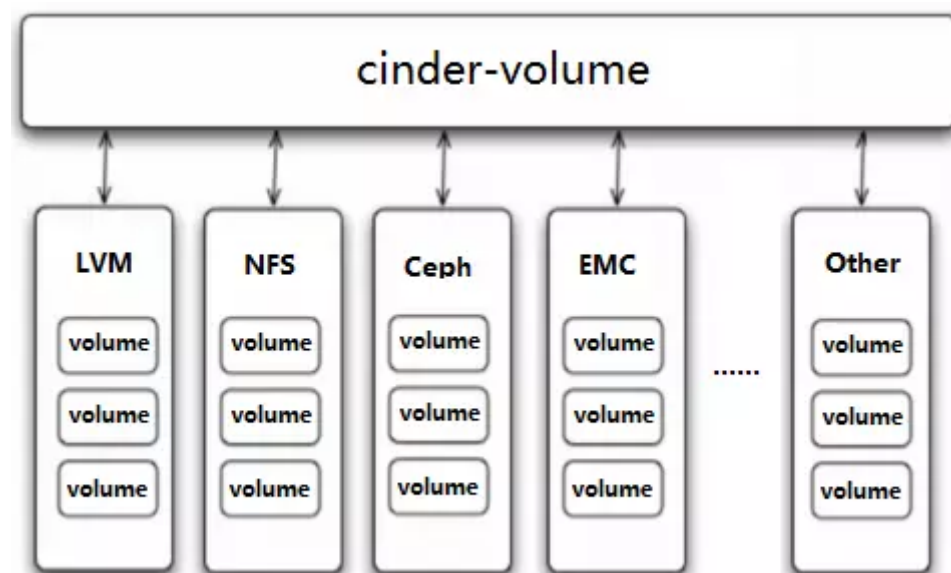


Nova is located in center of openstack, there are many parts provide service for nova, for instance, Glance provide image service, Cinder and swift provide block and object storage separately, Neutron provide network for nova.

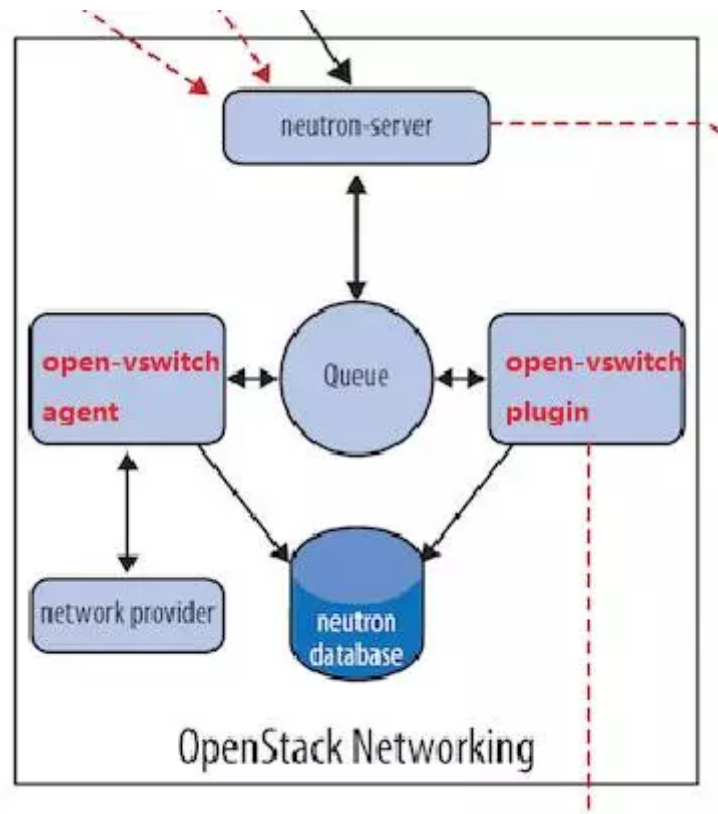
cinder



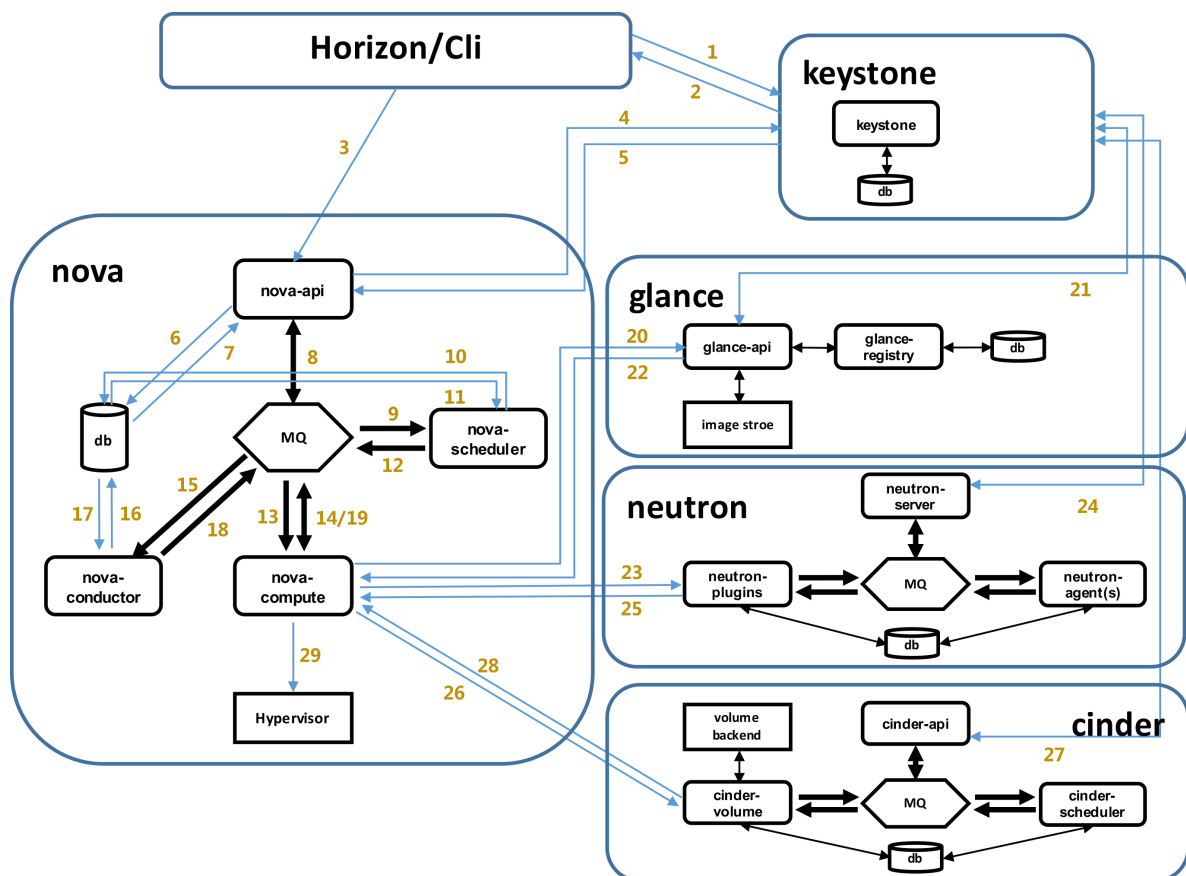
cinder-volume



neutron



whole workflow to create a instance



task1

create a vxlan network which have two subnet

task2

create a vlan network as provider and a router

task3

create a flavor, need to configure dedicated CPU and using two numa nodes

task4

create a redhat instance using the vlan network created in task1 and the flavor in task3