**OpenStack Implementation**

It is basically private IAAS cloud. OpenStack has the following components…

* **Keystone** (Authentication)
* **Glance** (OS image) “.qcow2 format is used in place of iso format”
* **Nova** (Processor and RAM)
* **Neuron** (Networking)
* **Cinder** (Block Storage- automatization of SAN)
* **Swift** (Object Storage-meta data is stored along with data along with unique identity number)

**Configuring CentOS 7 Minimal**

* to check the IP address

|ip a s

* vi /etc/sysconfig/network-scripts/ifcfg-ens33 and edit the file as

|ONBOOT=yes

* To Stop the Network Manager controller, the below command has been changed in centOS 7 and Redhat 7 OS

|systemctl stop NetworkManager

* Turn off the selinux by

|vi /etc/sysconfig/selinux and disable the enforcing

* Now turn off the firewall including iptables and firewall d service by…

|iptables -F to flush all the rules

|systemctl stop firewalld

* Now change the hostname by entering the following command…

|hostnamectl set-hostname server1.example.com and reboot

**Installing OpenStack**

* Add the repository of openstack souce to repo.d file by typing…

|sudo yum install -y centos-release-openstack-queens

|sudo yum update -y to refresh/update the repository

* |yum install -y openstack-packstack
* |packstack allinone
* |yum install python -pip

To generated the public and private key through ssh

|ssh-keygen go to /home/username/.ssh/\*\_rsa is the private key and /\*.pub is the public key

Now copy the public key to the client user by ….

|ssh-copy-id vikalp@<destip>

Type the respective password now the public key has been added to the .ssh directory of the destination user

Now access using the client user by

|ssh vikalp@<destip>

Now you get connected RDP without passwordf