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Department of Computer Science & Engineering
Week-wise Internship Report Academic Year 2019-20

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Name of Mentor: Padmapani Tribhuvan mam

Detailed name of Internship (Organization/Online platform/Training Institute): Indian OpenSource Community.

Duration of Internship (In weeks): 5/6 weeks

Date of Joining the Internship: 13/june/2020

Date of Completion of Internship: 18/july2020

Technology / Platform on Which Working: OpenStack

OpenStack is a free open standard cloud computing platform, mostly deployed as infrastructure-as-a-service (IaaS) in both public and private clouds where virtual servers and other resources are made available to users. The software platform consists of interrelated components that control diverse, multi-vendor hardware pools of processing, storage, and networking resources throughout a data center.

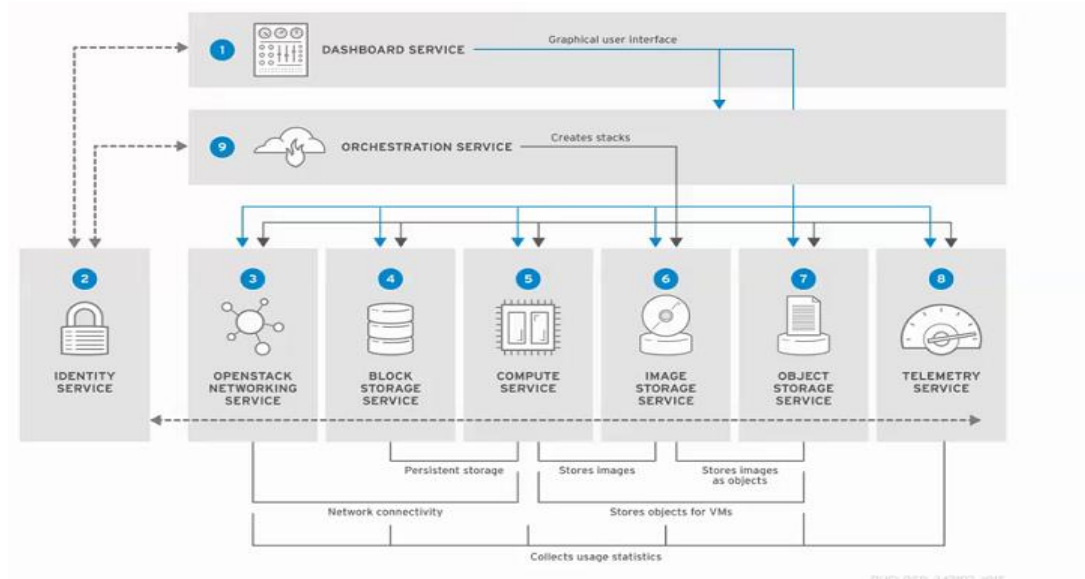
Beyond standard infrastructure-as-a-service functionality additional components provide orchestration service, fault management and service management amongst other services to ensure high availability of user applications.

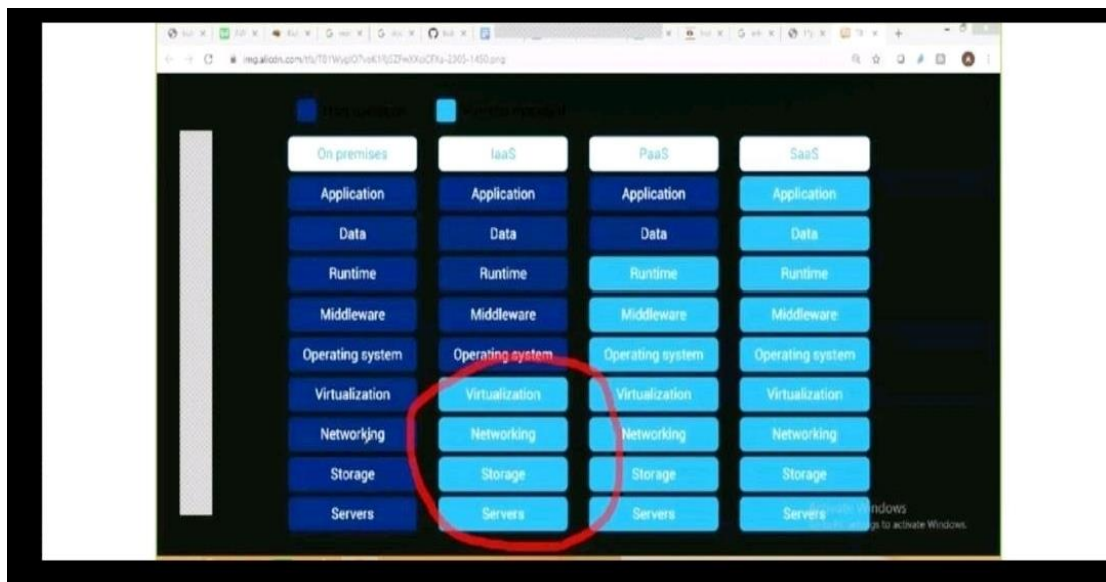
1. Controller
 2. Compute
 3. Block Storage
 4. Object Storage
 5. Image Storage Service
 6. Networking
 7. Dashboard Service
 8. Telemetry Service
- Etc.

Component :

1. Nova
2. Glance
3. Swift
4. Cinder
5. Horizone
6. Keystone
7. Neutrone
8. Celiometer
9. Heat &many more etc.

Screenshots of the OpenStack





The screenshot shows a CodeBunk workspace with a terminal window titled 'Centos-openstack [Running] - Oracle VM VirtualBox'. The terminal displays the following commands and output:

```

1 https://www.virtualbox.org/wiki/Downloads
2
3 https://drive.google.com/file/d/0Bw59oF2-DxdEU2hrb3AuN2R1cFk/view
4
5 username: openstack
6 password: openstack
7
8 In the console, run the following command: sudo dhclient enp0s3
9
10 openstack@openstack ~]$ sudo dhclient enp0s3
11
12 Provide the "openstack" password.
13
14 Now, check if you have obtained the 10.0.2.15 IP for enp0s3 interface using
15
16 openstack@openstack ~]$ ifconfig
  
```

The output of the `ifconfig` command shows the network configuration for the `enp0s3` interface:

```

enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe24:457e prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:24:45:7e txqueuelen 1000 (Ethernet)
    RX packets 70 bytes 8706 (8.5 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 80 bytes 6954 (6.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
  
```

Learning Outcome for Week I:

It is very interesting intership and easily learned about openstack and learned new skills I think it is perfect starting of opensource for beginners.