**CLOUD COMPUTING - DAY 1**

Cloud – virtual , Computing – calculation

1. it gives SAAS(Software as a Service)

-ex –Google, MicroSoft

2. it gives StAAS(Strorage As A Service)

3. it gives IAAS(Infrastructure As A service)

-ex –windows

4. it gives PAAS(Plateform As A service)

-ex –python,java,etc.

5. it gives DBAAS(DataBase As A service)

6. it gives NAAS(Network As A service)

**Cloud services**

1. AWS – 61%
2. Azure
3. Google
4. Openstack
5. IBM

**AWS** - AMAZON WEB SERVICES

--IAAS 🡪 ec2 -(elastic compute cloud )

**EC2-**

**D**ata center

Racks Hypervisor

HardWord (RAM,CPU,HDD)

**Hyper visior**

**os**

16 gb used -2gb

I 5

4gb used -1gb

Remaining can be managed by hypervisior for different os

**Hypervisor**

Type 1 : Barem Metal

Type 2 : hosted

**hypervisor**

|  |  |  |
| --- | --- | --- |
| Os1 | Os2 | Os3 |

|  |  |  |
| --- | --- | --- |
| **Type1** | **hypervisor** | **Type2** |
| ESXI | Vmware | Vmw/vmp |
| XEN SERVER | citrix | XEN |
| RHEVH | RedHat | kvm |
| Hyper –V | MicroSoft | Virtual PC |
| VM | Oracle | Virtual Box |
|  |  |  |

**RACKS :**

To store motherboard and install hypervisor in them..(hardware)

**Cluster :** a place where many racks are placed.

**Data center :** combination of clusters.

**Region :** set of data centers

Region

Ec2

Dc1 dc2

cluster

Racks

Hardware

**OS -** ECU - (RAM ,CPU) -Hypervisor

-HDD -EBS(Elastic Block Storage)

-OSimage - AMI (Amazon Machine Services)

-Network -VPC

**Q-how many instances can be made in one launch.**

**Q- What is spot instances**

**Q- Can we change availability zone after launch**

**BOOT STRAPING:**

To plan whatever action to be executed at launch time automatically.