Name : Swapnil Sawant
Division : TE4
Roll No : 46
Batch : C
Subject : CCL
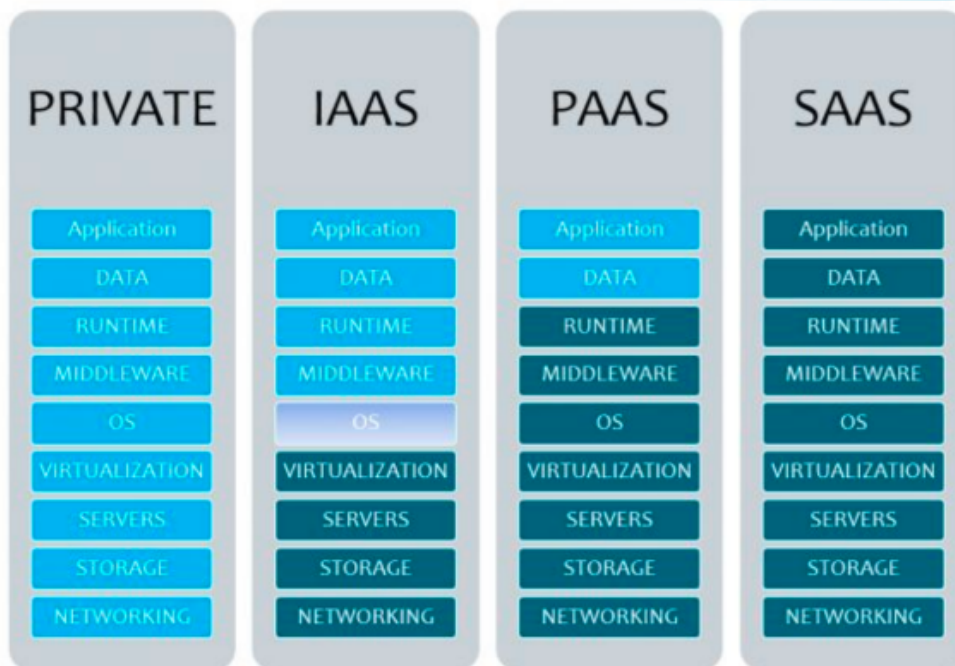
EXPERIMENT NO 1

Aim : Study of Introduction and overview of cloud computing.

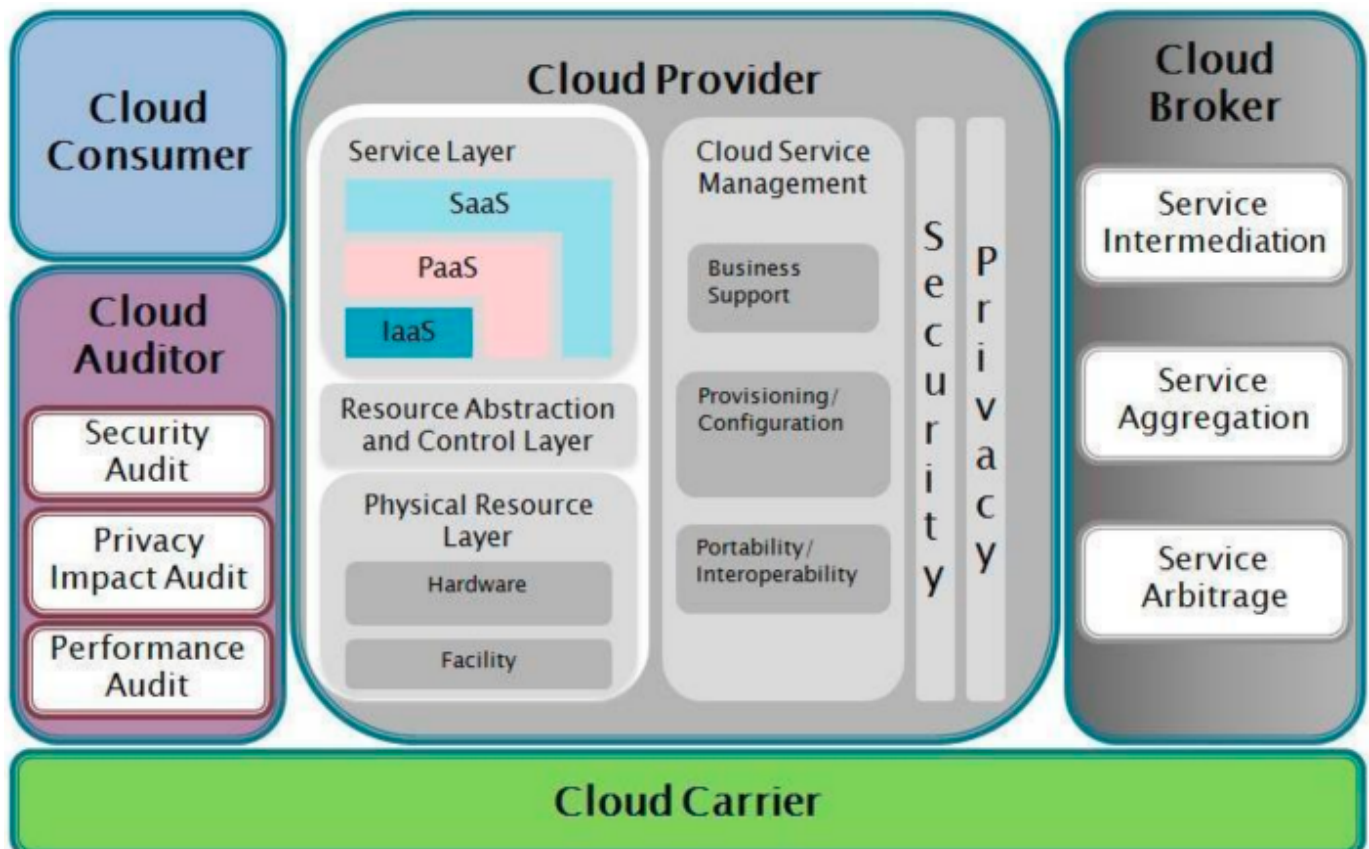**Diagram :**

Cloud Service Model

PRIVATE	IAAS	PAAS	SAAS
Application	Application	Application	Application
DATA	DATA	DATA	DATA
RUNTIME	RUNTIME	RUNTIME	RUNTIME
MIDDLEWARE	MIDDLEWARE	MIDDLEWARE	MIDDLEWARE
OS	OS	OS	OS
VIRTUALIZATION	VIRTUALIZATION	VIRTUALIZATION	VIRTUALIZATION
SERVERS	SERVERS	SERVERS	SERVERS
STORAGE	STORAGE	STORAGE	STORAGE
NETWORKING	NETWORKING	NETWORKING	NETWORKING

By the User

By the Provider

Cloud Consumer

Cloud Auditor

- Security Audit
- Privacy Impact Audit
- Performance Audit

Cloud Provider

Service Layer

SaaS

PaaS

IaaS

Resource Abstraction and Control Layer

Physical Resource Layer

Hardware

Facility

Cloud Service Management

Business Support

Provisioning/ Configuration

Portability/ Interoperability

Security

Privacy

Cloud Broker

- Service Intermediation
- Service Aggregation
- Service Arbitrage

Cloud Carrier

Characterisics :

1. On-demand self-service.
2. Broad network access.
3. Resource pooling.
4. Rapid elasticity.
5. Measured Service.

Service Models :

1.Infrastructure as Service.
2.Platform as Service.
3.Software as Service.

Deployment Model :

- Private Cloud
- Public Cloud
- Hybrid Cloud
- Community Cloud

Advantages of cloud computing model :

1. Back-up and restore data
2. Improved collaboration
3. Excellent accessibility
4. Low maintenance cost
5. Mobility
6. Unlimited storage capacity
7. Data security

Conclusion :

The features of cloud, the services provided by it shows that cloud computing is a highly reliable computing paradigm where the consumer can use large amounts of computing resources as per his/her demand without actually owning it.