



# **SNS COLLEGE OF TECHNOLOGY**

**Coimbatore-35**  
**An Autonomous Institution**



Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A++’ Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

## **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**19EET304/ IOT for Electrical Sciences**

III YEAR VI SEM

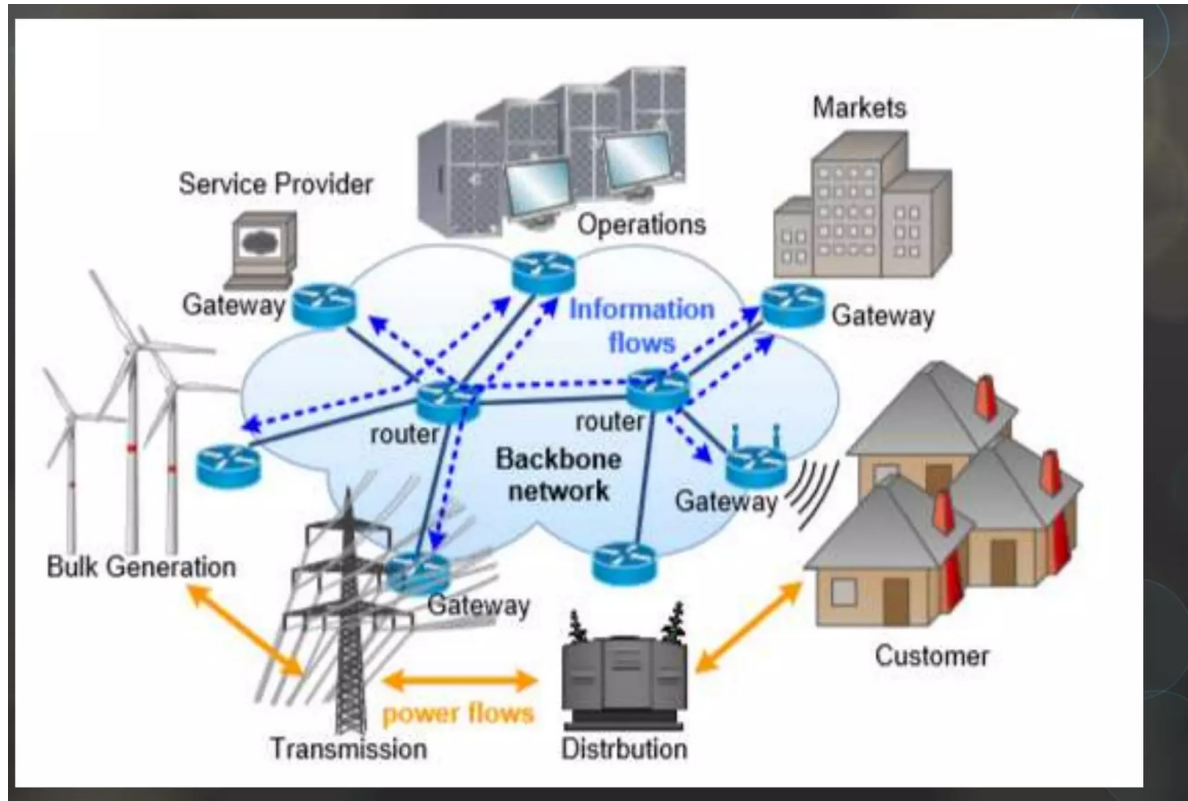
UNIT 3 COMMUNICATION INTERFACE

**TOPIC 5 – CYBER SECURITY FOR SMART GRID**





# SMART GRID





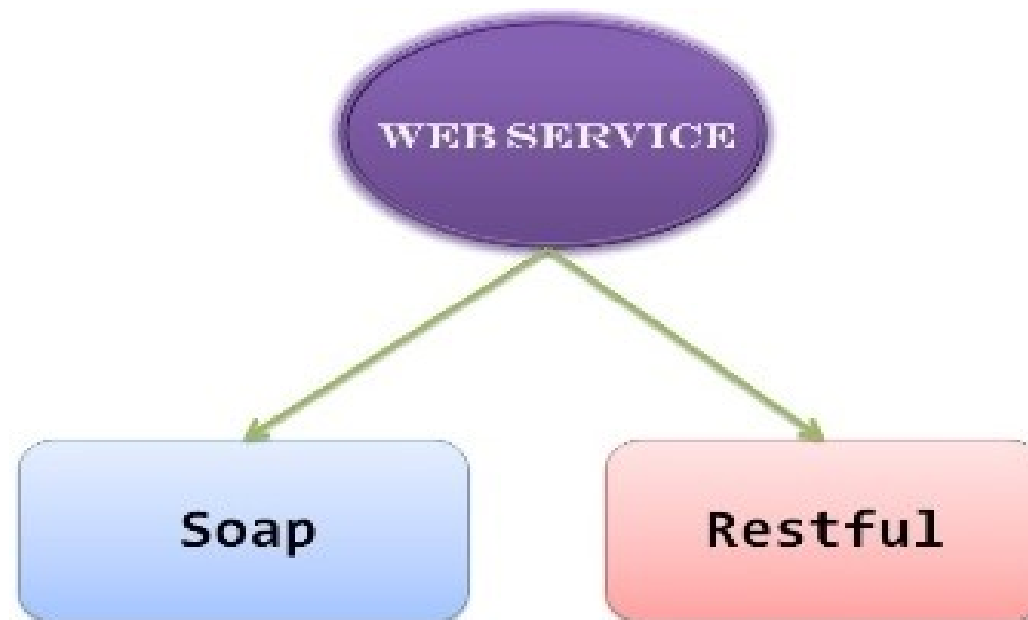
## FEATURES OF WEB SERVICES

1. Web services are based on open standards like XML, HTTP. So these are operating system independent.
1. Web services are programming language independent. A Java application can consume a PHP web service.
2. Web services can be published over the internet to be consumed by other web applications.
3. The consumer or the client of the web-service is loosely coupled with the web service. So the web services can update or change its underlying logic without affecting the consumer.



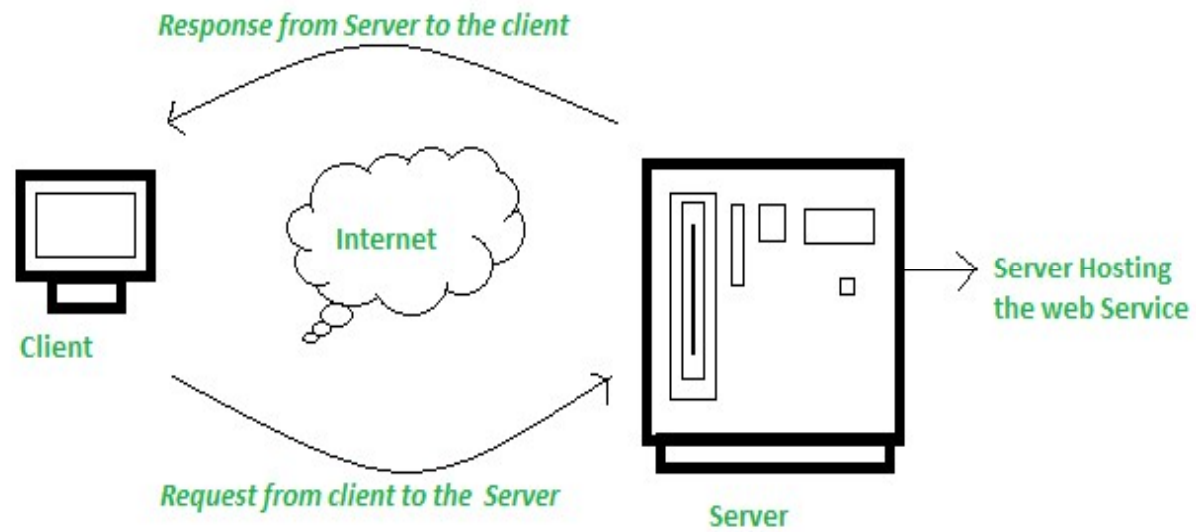


## TYPES OF WEB SERVICES





## HOW DOES WEB SERVICE WORK?





## FEATURES/CHARACTERISTICS OF WEB SERVICE



1. XML BASED
2. Loosely Coupled
3. Capability to be Synchronous or Asynchronous
4. Coarse-Grained
5. Supports Remote Procedural Call
6. Supports Document Exchanges





## ADVANTAGES OF WEB SERVICE

1. Business Functions can be exposed over the Internet
2. Interoperability
3. Communication with Low Cost
4. A Standard Protocol that Everyone Understands
5. Reusability

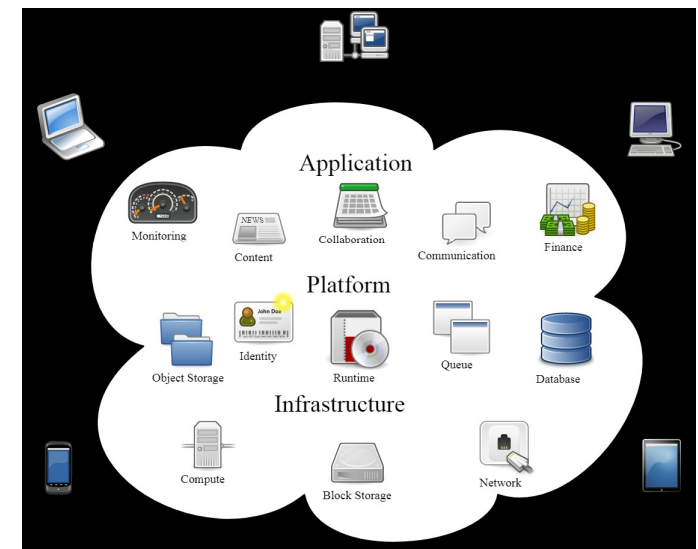




## CLOUD COMPUTING



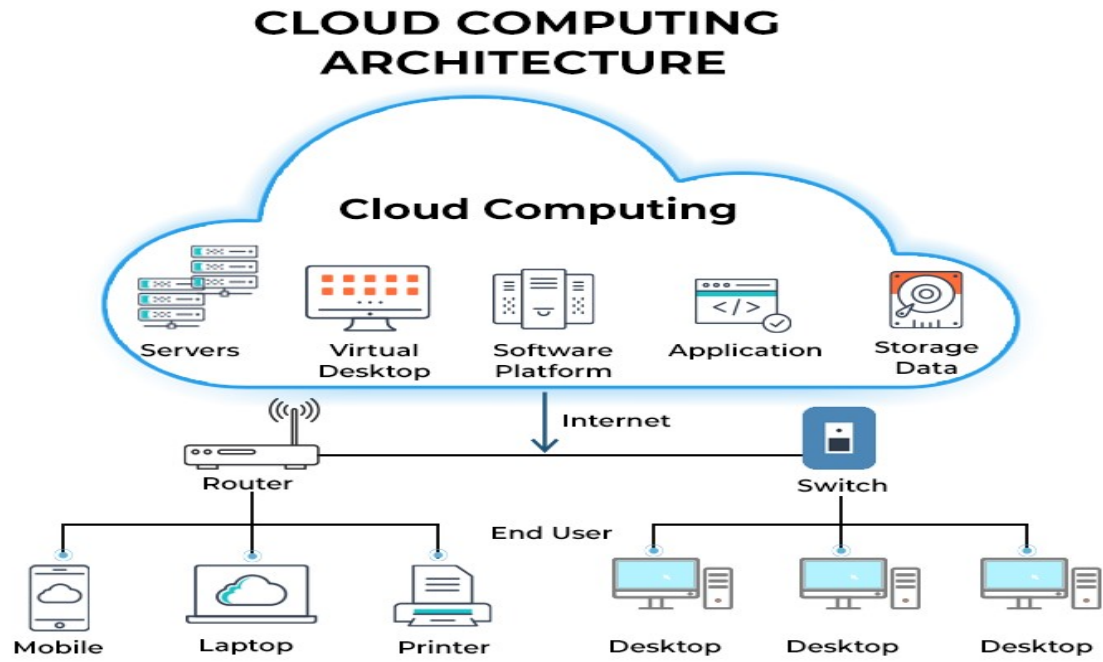
Cloud computing is on-demand access, via the internet, to computing resources—applications, servers (physical servers and virtual servers), data storage, development tools, networking capabilities, and more—hosted at a remote data center managed by a cloud services provider (or CSP). The CSP makes these resources available for a monthly subscription fee or bills them according to usage.







# CLOUD COMPUTING ARCHITECTURE





## ASSESSMENT - 1

### EXPLAIN THE ROLES OF WEB SERVICES?





## ASSESSMENT – 2



### CAN YOU EXPLAIN THE APPLICATIONS OF CLOUD COMPUTING ?





## References



- <https://www.geeksforgeeks.org/what-are-web-services/>
- <https://artoftesting.com/what-is-a-web-service>
- <https://www.ibm.com/topics/cloud-computing>

Thank You