

Various types of architecture systems

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Sensing layer

Sensing layer collects data from devices like sensors and convert it into digital data for further processing.

Network layer

This layer is responsible for transmitting data from the sensing layer to the storage layer.

It involves the communication protocols and network technologies that enable devices to connect and communicate with each other.

Ex-wifi,bluetooth,zigbee,5g .



Data processing layer

- This layer is responsible for receiving raw data from the devices, processing it, and making it available for further analysis .
- It includes technologies such as data management systems, machine learning algorithm.



Application layer

It is responsible for providing user-friendly interfaces and functionalities that enables users to access and control iot devices.

It includes various software and application such as mobile apps, web portals



4 Stage IoT Architecture

Application Layer

Smart Applications and Management

Data Processing Layer

Processing Unit
Data Analytics/ Decision Unit

Network Layer

Internet Gateway/ Network Gateway
Network Technology

Sensing Layer

Physical Object
Sensor and Actuator

Cloud based

Data storage, processing and services are managed in the cloud.

User can access services remotely over the internet

Server-based architecture

In server based architecture, all the data processing, storage and management are handled by physical or virtual servers that are typically hosted on-physical servers. The servers act as the central component of the system where clients or devices send requests, and the server processes and responds with the required data.

