

M2M

IOT

① Point to Point communication
usually embedded with
nlw

① Device communicate using
nlw incorporating with
varying protocols

② Many device use cellular
or wired nlw

② Data delivery is relayed
through a middle layer
hosted in the cloud.

③ Device do not necessary
rely on an internet
connection

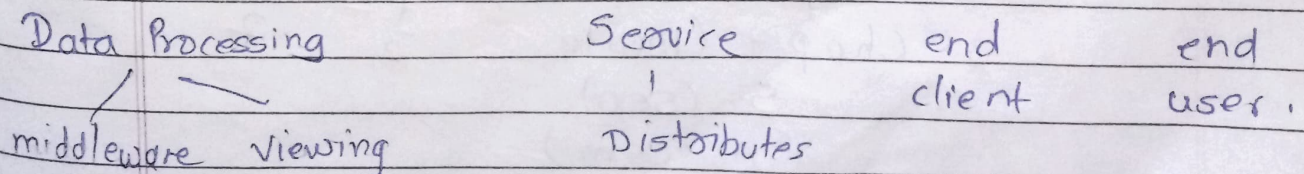
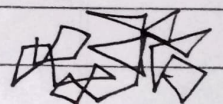
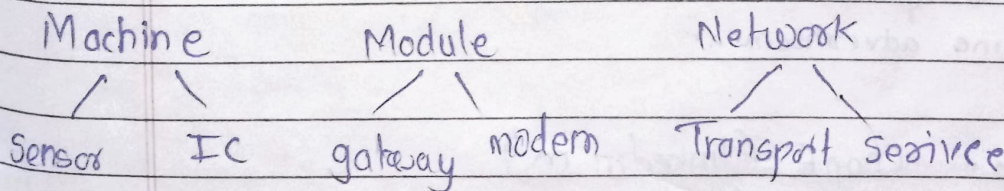
③ In the majority of cases
devices required on active
internet connection

④ Limited integration options
as devices must have
corresponding communication
standard

④ unlimited integration options
but required a solution
that can managed all
of the communication

M2M Value chain

Smart MLC (objects)



What is agent?

— In general, an entity that interacts with its environments to do the right things

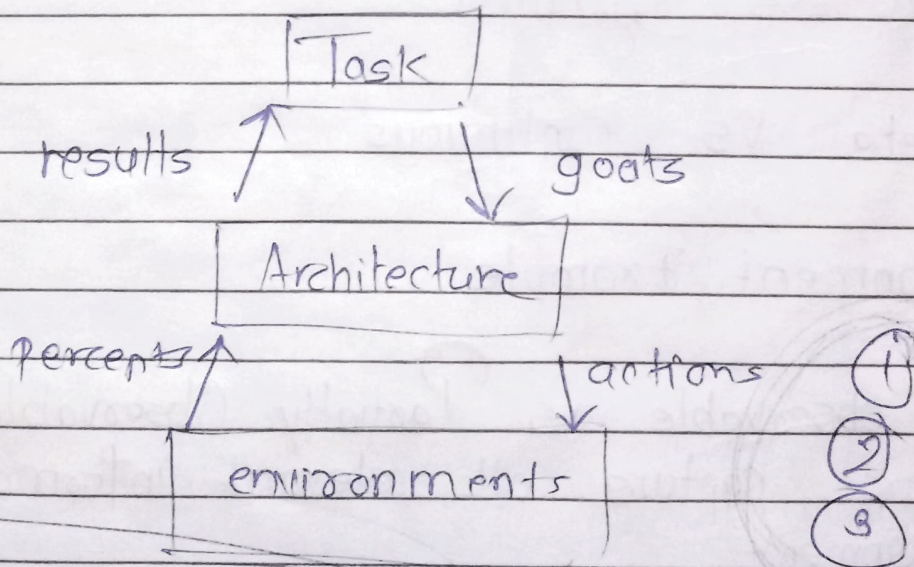
① Perception through sensors

② Actions through effectors or actuators

— Intelligent agents - view provides framework to integrate the many subareas of AI

- The right action is the one that will cause the agent to be most successful

- An agent is autonomous if its behaviour is determined by its own experience



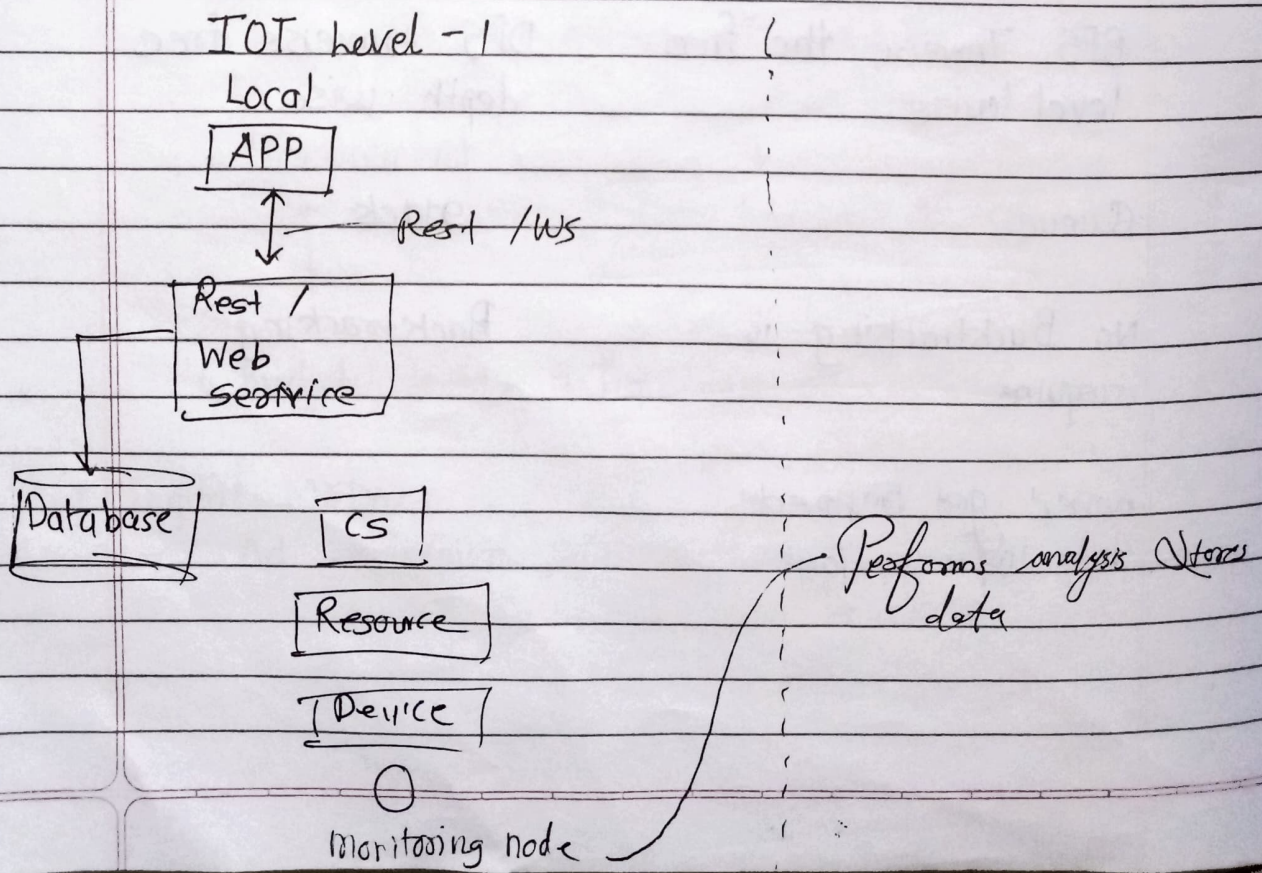
* Devices :- An IoT device all identification remote sensing, actuating and remote monitoring capabilities

* Resource :- Resources are software components on IoT Devices for accessing processing and storing sensor information or controlling actuators connected to the Device

* Controller Service :- CS is a native service that runs on the device and interacts with the web service

* Database = web service

* Analysis component



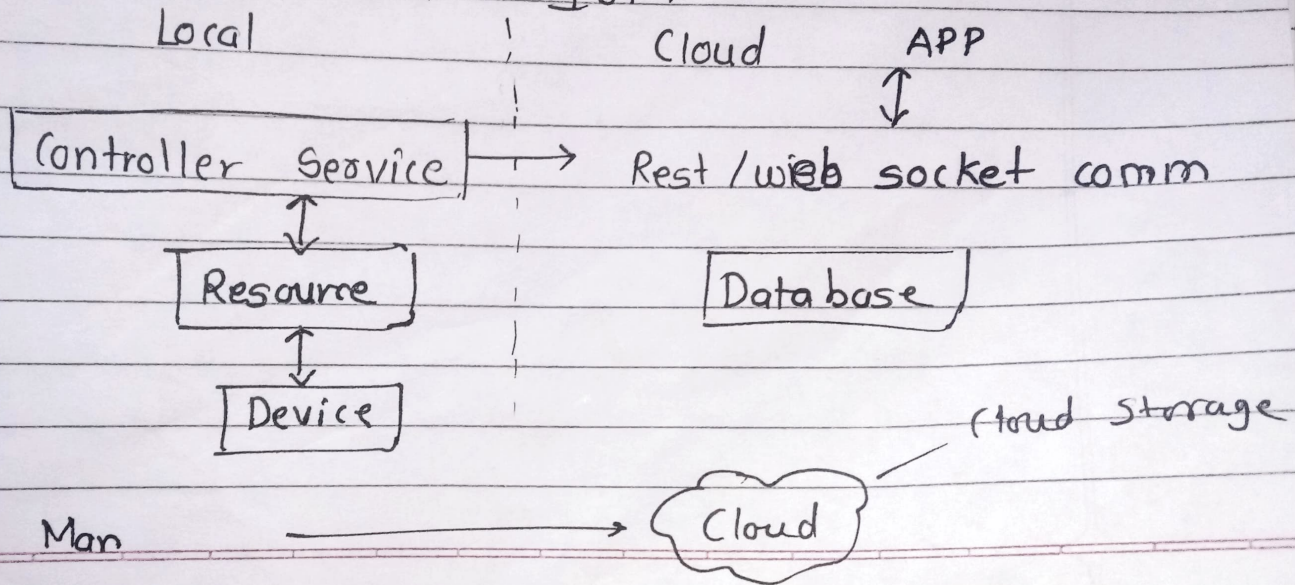
SCADA - Supervisory Control and data acquisition
It is a system of software and H/w elements
that allows industrial organization too

- Control industrial process locally or remote location
- Monitor → gather and process real-time data
- Direct interact with devices such as sensors, valve, pumps, motors and more

Reason to meet

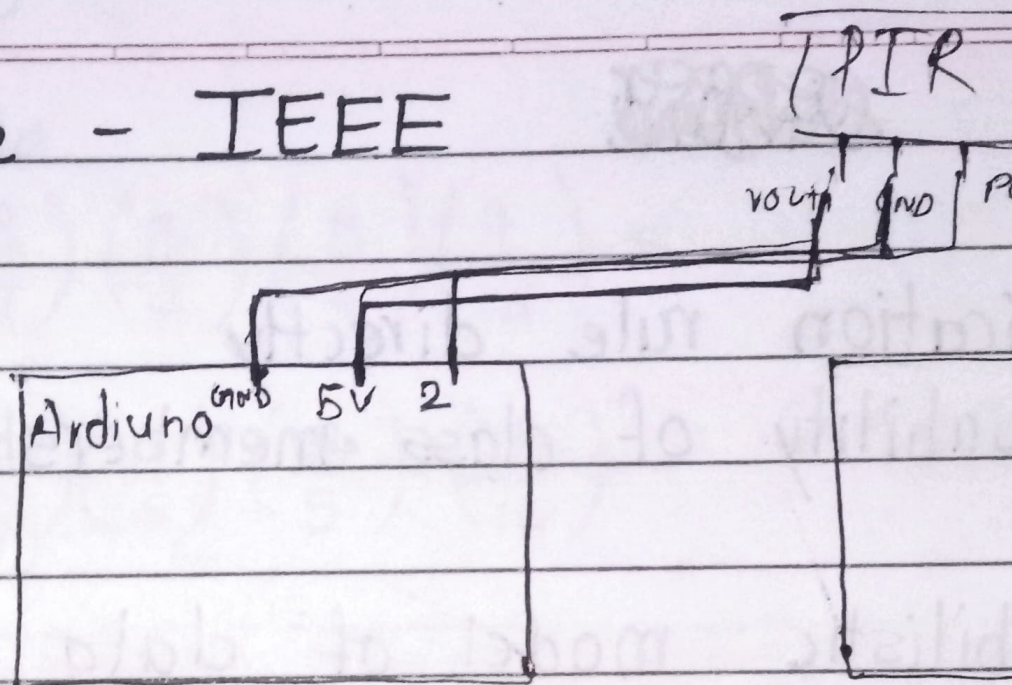
IoT

Imp
Imp What are different challenge of IoT?
Explain Level 2 and 3 IoT?



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★ ZigBee - IEEE



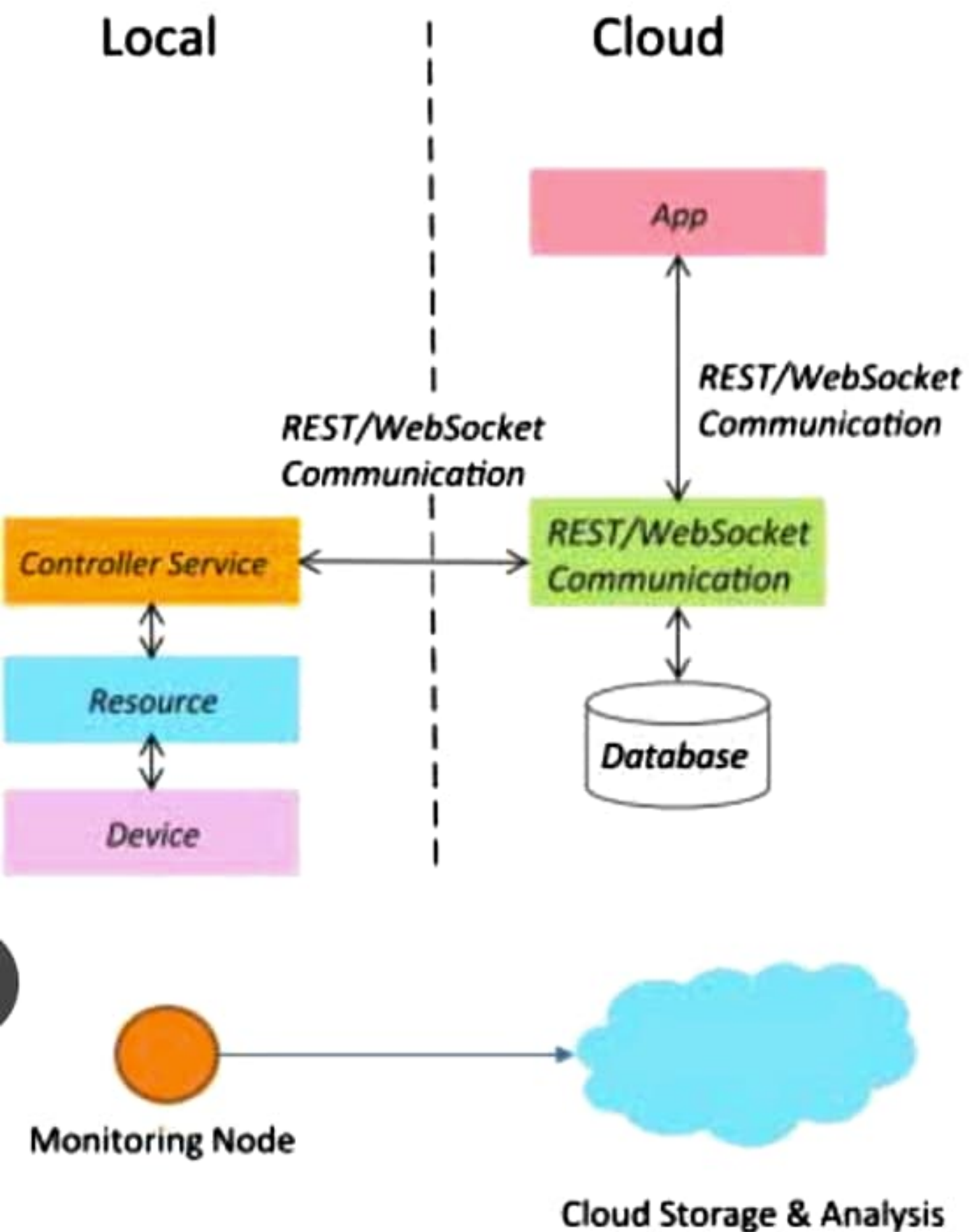
Home Automation Case study.

Overview

Component

Application

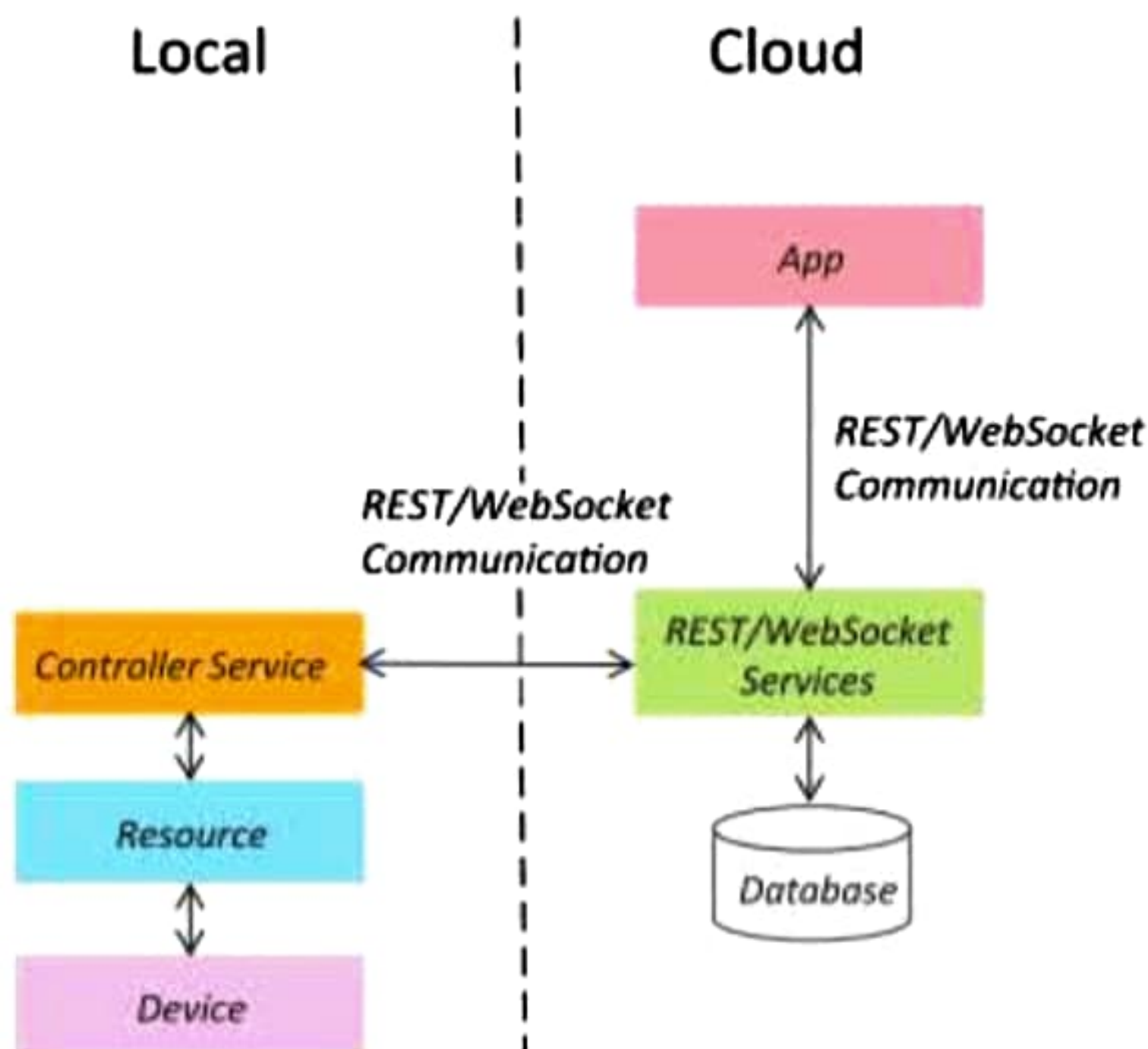
IoT Level-3



IoT Level-2

Local

Cloud



Monitoring Node
performs analysis



Cloud Storage