Basic Knowledge About Cloud Service
IBM Watson IOT platform.

It is a powerful web Dashboard, Flexible, Scalable and easy to use. It provides a clean and simple UI where we can simply and easily add and manage devices, control access to IOT Service, monitor the usage. It's fully managed cloud - hosted service that is designed to simplify and device value from IOT Device.

Device Management:

using device management service, we can perform device actions like rebooting or updating Firmware, receive device diagonesties and metadata, a perform bulk device addition and removal.

Responsive, scalable Connectivity :-

It uses the industry standard MQTT Protocol to connect device and applications. MQTT is designed for efficient exchange of data from device in real - time.

Secure Communication :-

securely receive data from and send commands to your devices. Do this using MQTT with TLS to secure all communication between your devices and our services.

Data Lifecycle management :-

Having accused to real-time data coming from our device, you can opt to store data for a period of our choice, allowing

you to have access to historical and real-time data for your devices.

Node - Red Service

Node - Red is a programming tool for wiring together hardware devices. API's and online services in new and interesting ways. It provide a browser based editor that makes it easy to wice together flows using wide range needs in its palette that can be deployed to its runtime.

Browser - Based Flow editing :-

Node - Red provides a browser based flow editor that makes it easy to wire together flows using wide range of nodes in the palatte.

Java Script functions can be created within the editor using a rich text editor.

A built in library allows you to sa useful function templates (or) flow for reuse.

Built on Node - js :-

The eight weight runtime is built on Node js taking full advantage of its event driven non - blocking node js. This makes its ideal to run at the edge of the network on low-cost hardware such as Rasperry pi as well as in the cloud.

Social Development :-

The flows created in node - Red are stored using JSON which can be easily imported and exported for sharing with others.

An online flow library allows you to share you best flows with the world.

IBM cloudant.

IBM cloudant is a fully managed, distributed database optimized for heavily workloads and fast growing web and mobile apps, IBM cloudant is availables as an IBM cloud service with a 99.99% SLA. cloudant elastically scales throughput and storage, and its API and replication protocols are comparable with Apache Couch DB for hybrid or multicloud architecture.

Serverless web app and API.

It'll create a serverless web application by hosting static website content on github pages and implementing the application link end, using IBM cloud Application.

Mobile App with serverless :-

It users IBM cloud functions along with cognitive and data service to build a serverless back end for a mobile app.

Find Anomalies in IOT Data :-

It sets up an IOT Device and gather data in IBM watson IOT platform. It will create visualizations and use advanced ML services to analyze historical data and alter Anomalies.

Open Hybrid Multicloud :-

It shows how to pairs the API and powerful replication protocol of cloudant with Apache catch DB in a hybrid cloud environment.