BASIC KNOWLEDGE ABOUT CLOUD SERVICES

IBM Watson IoT Platform

It is a powerful web Dashboard Flexible,Scalable and easyto use it. It provide a clean and simple UI wherewe can simply and easily add and manage devices,control access to IoT services.Monitor the usage.It is fully managed cloudhosted services that is designed to simplify and derive value from IoT devices

Device Management:

•   Using device management service we can perform device actions like Rebooting or Updating firmware,receive device diagonistics and metadata a perform bulk device addition and removal.

Responsive,Scalable Connectivity:

•   Ituses the industry standard MQTT Protocol to connect device and applications.

•   MQTT is designed for efficient exhange of data to and 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

beturenyourdevices and our sevices.

Data Lifecycles Management:

- Having accessed to real-time data coming from our devices you can opt to store data for a period of ourchoice,allowing you to have access to historical and real-timedata for your devices.

NODE-RED SERVICES

Node-Red is a programming tool for wiring together hardware devices,API's and online sevices in new and interesting ways.It provides a browser based editor that makes it easy to wire together flows using wide range of nodes in its paletle 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 floes using wide range of Node in the paletle.

- Javascript function can be created within the editor using a rich text editor .

- A built in library allows you to save useful function templetes to flows for re-use.

Social Development:

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

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

IBM Cloudant

IBM Cloudant is a jully managed,distributed database optimized for heavy workloads and fast growing web and mobile apps,IBM Cloudant is avalable as an IBM Cloud service with a 99.99% SLA.Cloudant elastically scales throughput and storage and its API and replication protols are compacible with Apache CouchDB for hybrid or muliticloud architecture.

Serverless Web App and API:

- It'll create a serverless web application by having static website content on github pages and implementing the application bank-end, using IBM Cloud application Mobil app with serverless.

- It was IBM Cloud funtions along with lognitive and data service to build a serverless back end for a mobile app.

Find Anomalier in IoT Data:

- It sers up an IoT device and gather data in IBM watson IoT platform.It will create visualization and we advanced ML services to analyze historical data and detect anomalier.

Open Hybrid Multicloud:

- It shows how to pair the API and Powerful replication protocol of cloudant

with Apache CouchDB in a hybrid cloud environment.