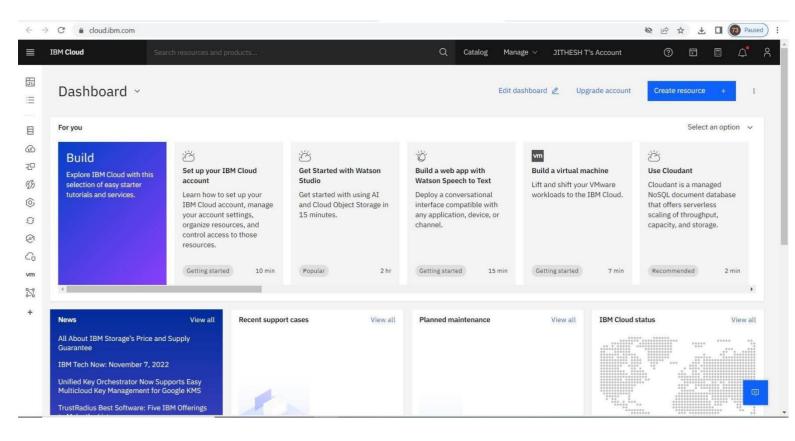
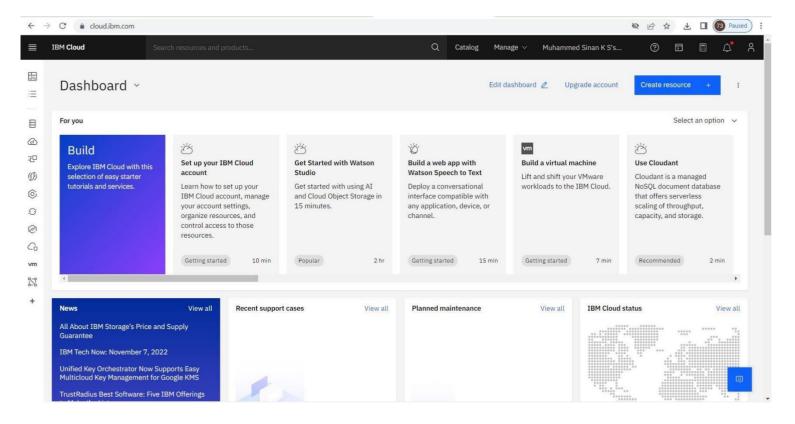
# Prerequisites IBM Cloud Services

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**Smart solution for railways** 





### **IBM CLOUD SERVICES**

# **IBM Watson IOT Platform**

- ➤ Watson IOT Platform features Analytics and Watson APIs Completely manage your IOT landscape and make better business decisions.
- ➤ It assures delivery of messages Developer friendly libraries.
- ➤ It integrates with java environment.
- ➤ Allows development of interactive mobile messaging applications.
- ➤ Easy to use ,web based command line interfaces.
- ➤ Can be deployed on public cloud infrastructure in IBM cloud, Amazon and Azure cloud environments.

#### **NODE - Red Service**

- Node Red is a flow-based programming tool, originally developed by IBM's Emerging Technology Services team and now a part of the Open JS Foundation.
- ➤ The node part reflects both flow/node programming model as well as the underlying node.
- ➤ It is low code programming for event for event driven applications.

- Node-RED consists of a Node.js based runtime that you point a web browser at to access the flow editor.
- ➤ Within the browser you create your application by dragging nodes from your palette into a workspace and start to wire them together.
- ▶ With a single click, the application is deployed back to the runtime where it is run.

#### **Cloudant DB**

- ➤ IBM Cloudant is a fully managed JSON document database that offers independent serverless scaling of provisioned throughput capacity abd storage.
- ➤ Cloudant elastically scales throughput and storage and it's API and replication protocols are compatible with Apache couch DB for hybrid or multicloud architectures.
- ➤ IBM cloud provides an option of creating a fully managed cloudant instance on IBM cloud.

## **Object storage**

- ➤ Object storage is computer based data storage that manages data as objects.
- ➤ Object storage is used for purposes such as storing objects like videos and photos on facebook, song on spotify or files in online collaboration services such as dropbox.
- ➤ object storage provides programmatic interfaces to allow applications to manipulate data.
- ➤ It does not support the locking and sharing mechanisms needed to maintain a single, accurately updated version of life.
- ▶ Object storage explicitly separates file metadata from data to support additional functionalities.