

## PREREQUISTES

Date	24 September 2022
Team ID	PNT2022TMID41917
Project Name	SMART SOLUTION FOR RAILWAYS
Maximum Marks	4 Marks

# **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 and storage.
- Cloudant elastically scales throughput and storage and its API and replication protocols are compatible with Apache CouchDB for hybrid or multi-cloud 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, songs 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.

