**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 it's API and replication protocols are compatible with Apache couch DB 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, 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.

