

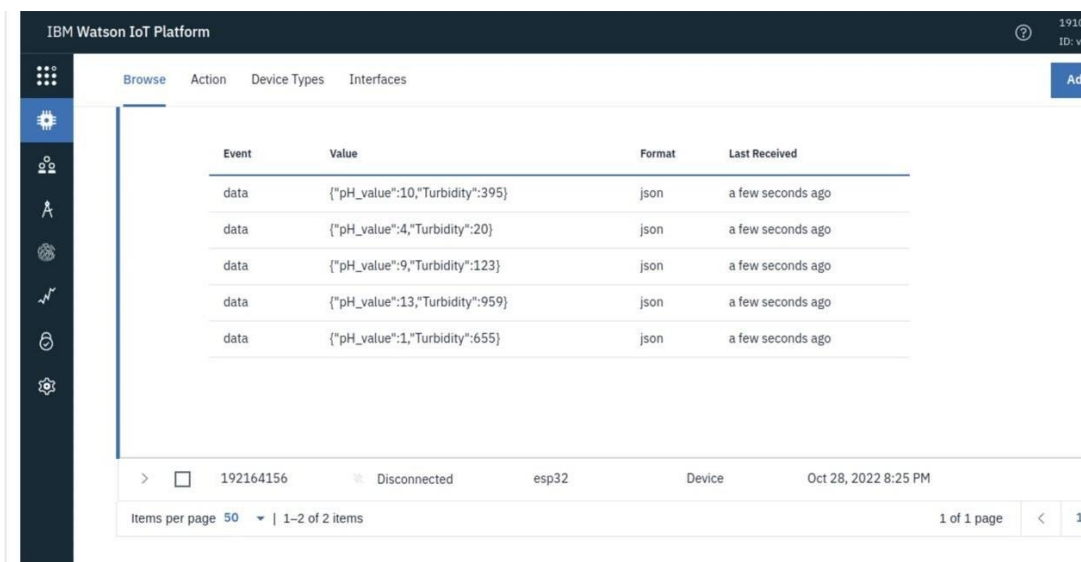
# BUILD MOBILE APP

## CONFIGURE THE APPLICATION TO RECEIVE THE DATA FROM CLOUD

|               |   |
|---------------|---|
| Date          | 03 November 2022  |
| Team ID       | PNT2022TMID42508  |
| Project Name  | Project – IOT Based Real – time River Water Quality Monitoring and Control System |
| Maximum Marks | 4 Marks   |

This is created through the use of gateway nodes to create a **Virtual DataWarehouse**. This Virtual Data Warehouse allows application developers to map access to remote data points.

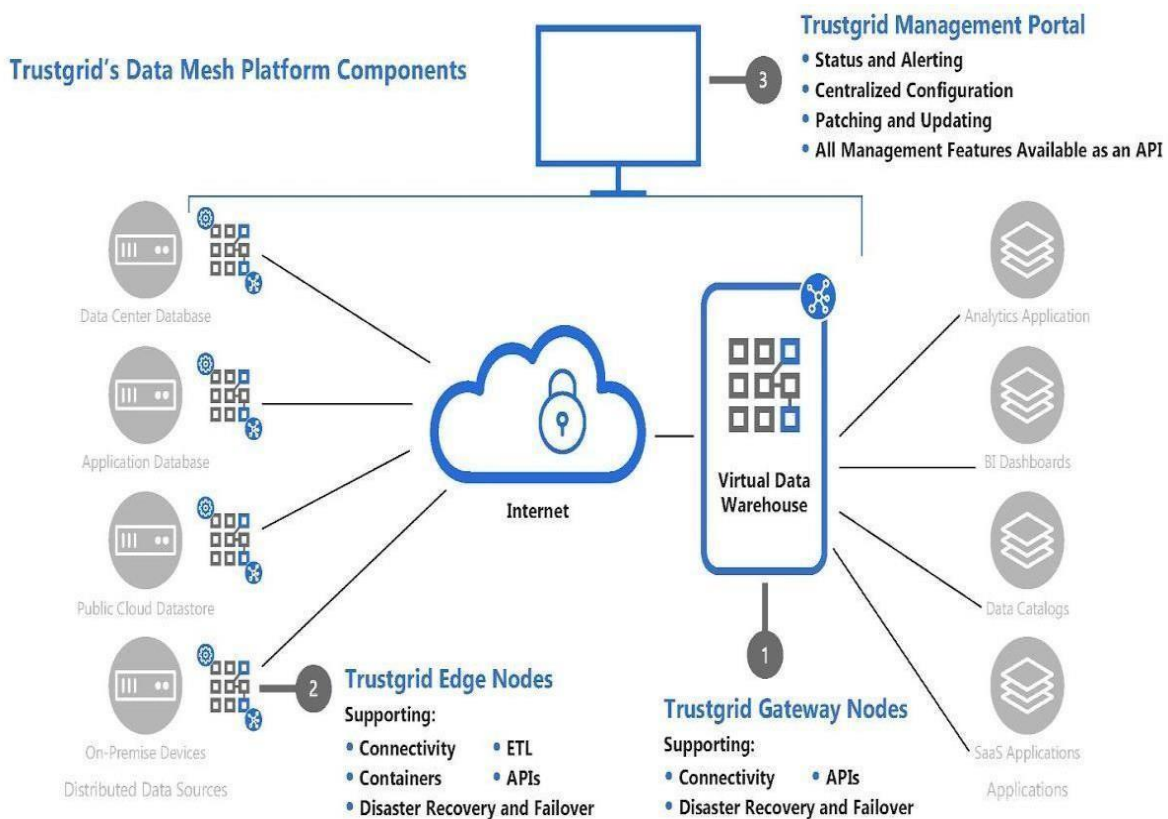
This software-defined gateway is run adjacent to the application it serves and can be deployed within a cloud environment or in a data center.



The screenshot displays the IBM Watson IoT Platform interface. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains various icons for navigation. The main content area shows a table with the following data:

| Event | Value                           | Format | Last Received     |
|-------|---------------------------------|--------|-------------------|
| data  | {"pH_value":10,"Turbidity":395} | json   | a few seconds ago |
| data  | {"pH_value":4,"Turbidity":20}   | json   | a few seconds ago |
| data  | {"pH_value":9,"Turbidity":123}  | json   | a few seconds ago |
| data  | {"pH_value":13,"Turbidity":959} | json   | a few seconds ago |
| data  | {"pH_value":1,"Turbidity":655}  | json   | a few seconds ago |

Below the table, there is a status bar showing a device ID '192164156', a status 'Disconnected', a device type 'esp32', and a timestamp 'Oct 28, 2022 8:25 PM'. At the bottom, there is a pagination control showing 'Items per page 50' and '1-2 of 2 items'.



This Virtual Data Warehouse allows for the virtual aggregation of data so that an application (or many applications) can easily consume it. Once a data source is added to the Virtual Data Warehouse an application has secure, real-time, persistent access to that data set.

**Hardware device** – The hardware device is one of the easiest methods of deployment because Trust grid handles all of the software imaging, logistics and deployment support for the end-user. A hardware appliance is ideal for environments with limited onsite support.