

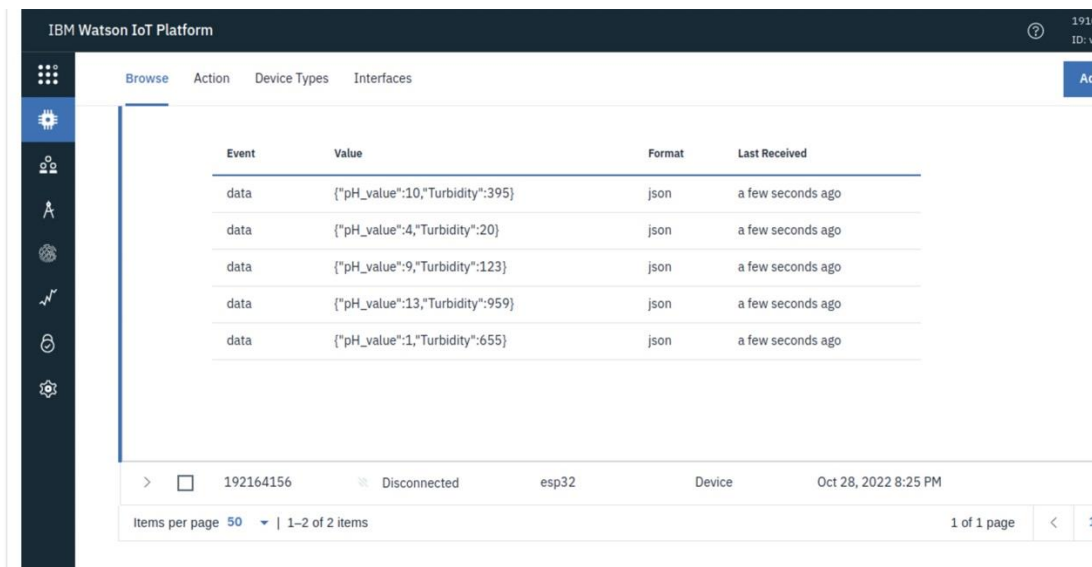
BUILD MOBILE APP

CONFIGURE THE APPLICATION TO RECEIVE THE DATA FROM CLOUD

Date	10 November 2022
Team ID	PNT2022TMID23696
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 Data Warehouse**. This Virtual Data Warehouse allows application developers to map access to remote data points.

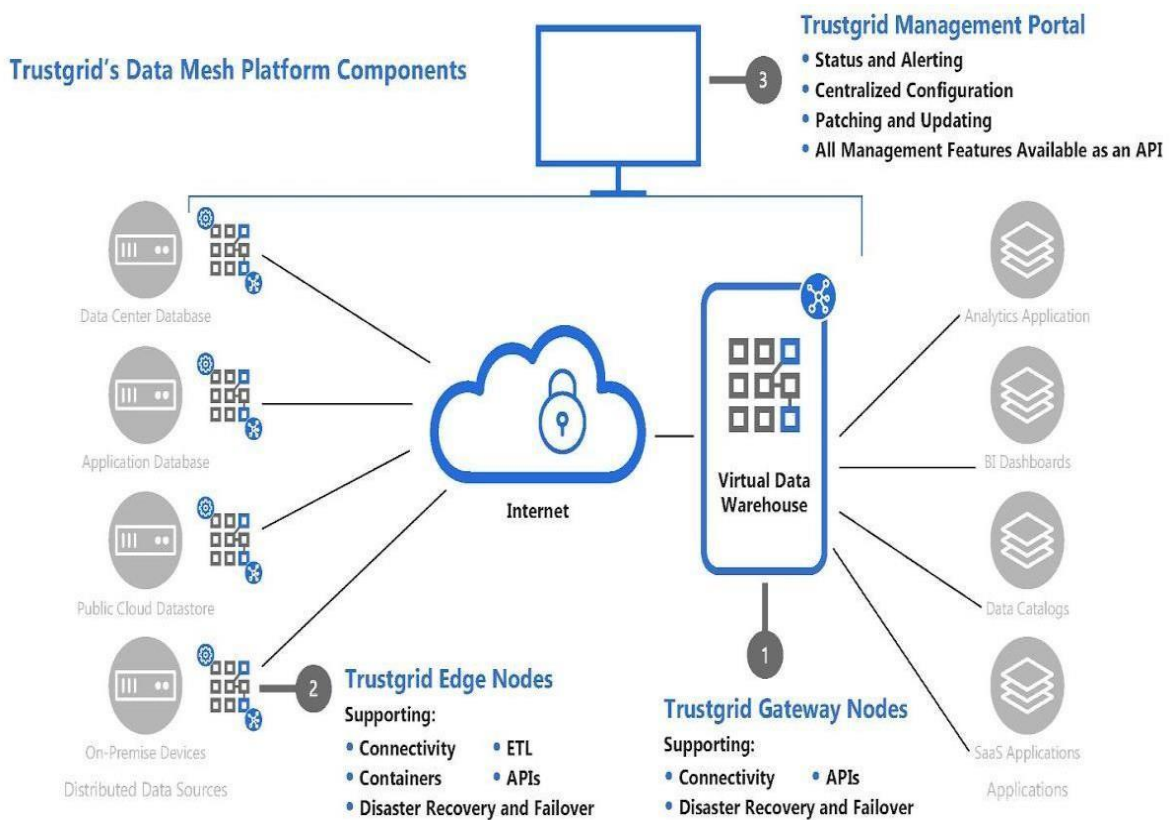
This software-defined gateway is run adjacent to the application it serves and can be deployed within a cloud environment or in a data center.



The screenshot displays the IBM Watson IoT Platform interface. At the top, the header reads "IBM Watson IoT Platform" with a help icon and a user ID "1910 ID: v". Below the header, there are tabs for "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 device status bar showing a device with ID "192164156", status "Disconnected", type "esp32", and a timestamp "Oct 28, 2022 8:25 PM". At the bottom, there is a pagination bar indicating "Items per page 50", "1-2 of 2 items", and "1 of 1 page".



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