

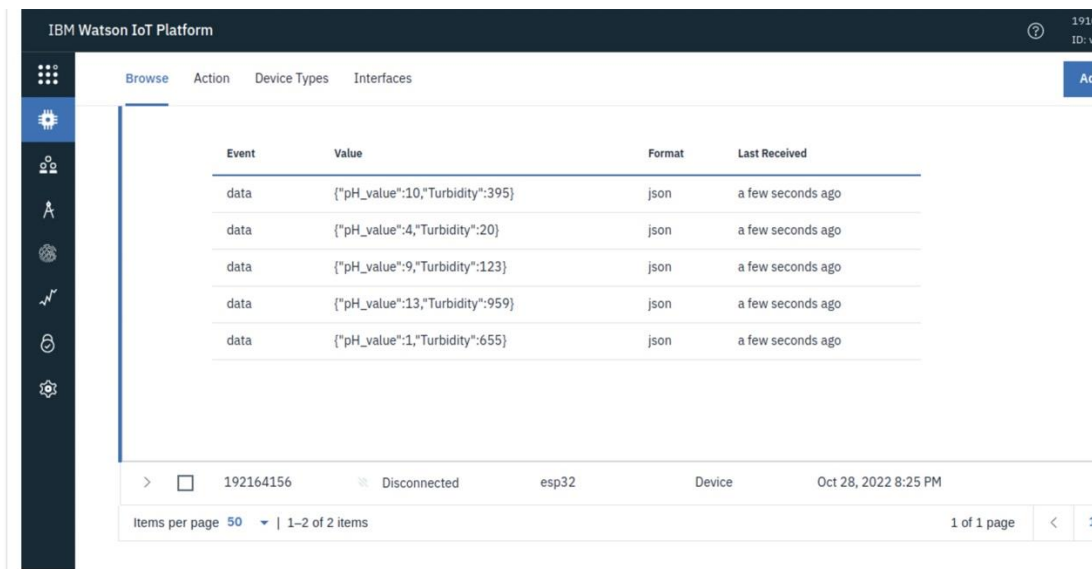
BUILD MOBILE APP

CONFIGURE THE APPLICATION TO RECEIVE THE DATA FROM CLOUD

Date	03 November 2022
Team ID	PNT2022TMID43884
Project Name	Project – IOT Based Real – time River Water Quality Monitoring and Control System

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.

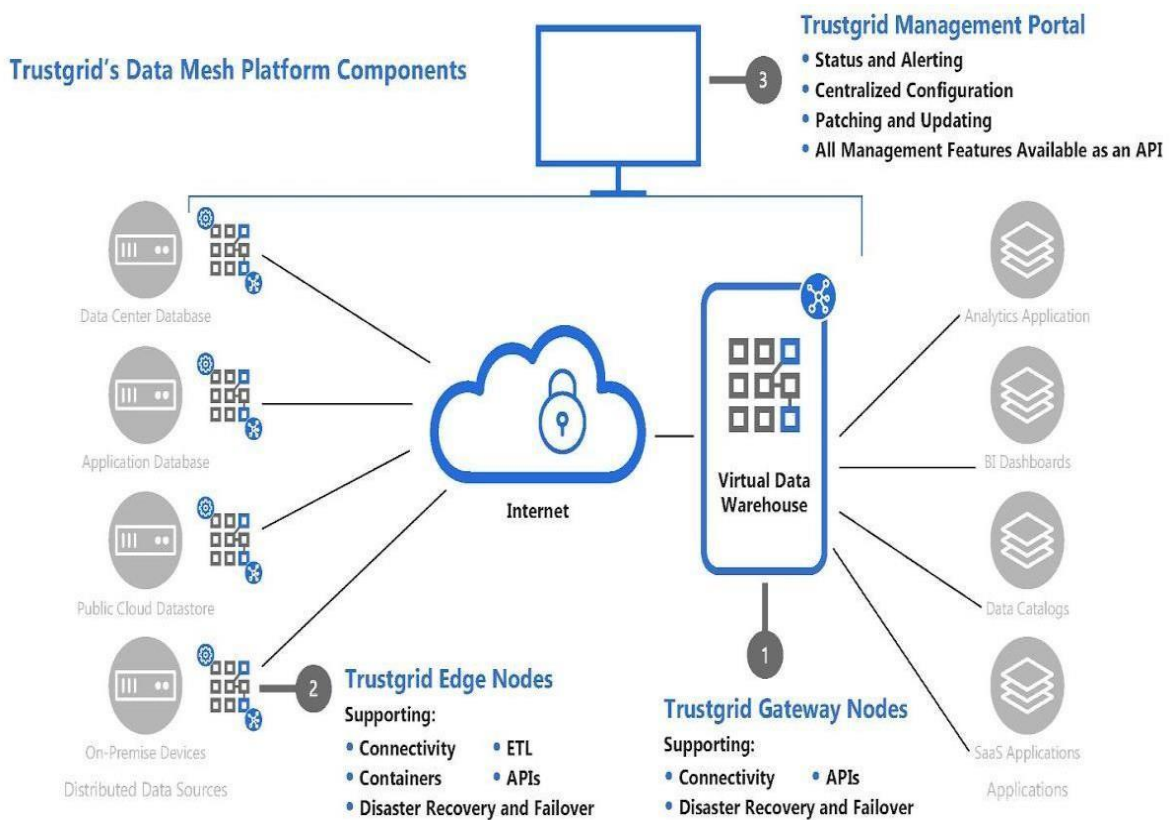
This software-defined gateway is run adjacent to the application it serves and can be deployed within a cloud environment or in a data center.



The screenshot displays the IBM Watson IoT Platform interface. On the left is a dark sidebar with navigation icons. The main content area has a top navigation bar with 'Browse', 'Action', 'Device Types', and 'Interfaces'. Below this is a table of events 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 is a device status bar showing a device icon, ID '192164156', status 'Disconnected', type 'esp32', and last update 'Oct 28, 2022 8:25 PM'. At the bottom, it indicates '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