

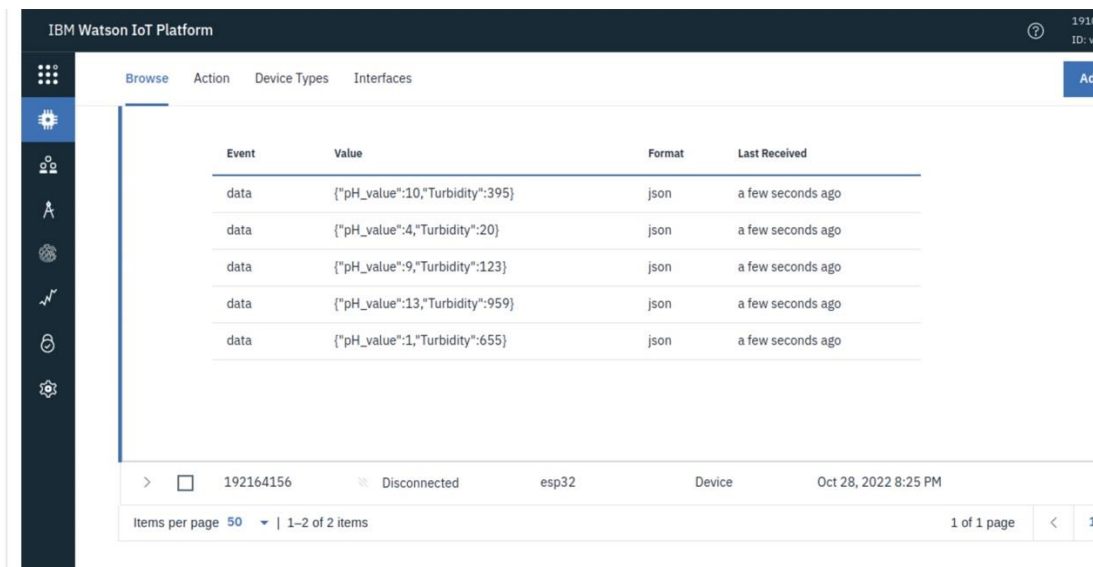
BUILD MOBILE APP

CONFIGURE THE APPLICATION TO RECEIVE THE DATA FROM CLOUD

Date	03 November 2022
Team ID	PNT2022TMID21839
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.

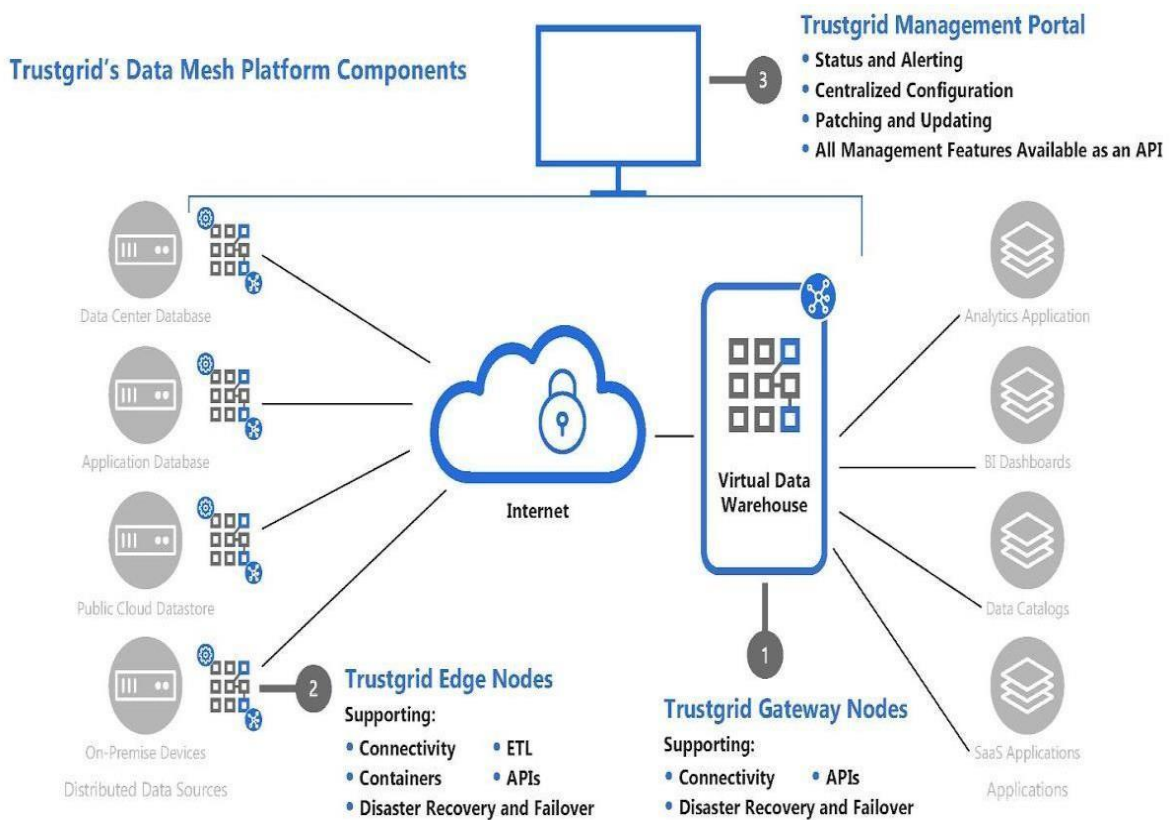


The screenshot displays the IBM Watson IoT Platform interface. At the top, the header reads "IBM Watson IoT Platform" with a help icon and a user ID "1910 ID: v...". Below the header, there are tabs for "Browse", "Action", "Device Types", and "Interfaces". The "Browse" tab is active, showing a table of events. The table has four columns: "Event", "Value", "Format", and "Last Received". The data rows show "data" events with JSON values for pH and Turbidity, all in "json" format, and "a few seconds ago" for the last received time. Below the table, there is a device 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 bar showing "Items per page 50", "1-2 of 2 items", and "1 of 1 page".

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

>	<input type="checkbox"/>	192164156	Disconnected	esp32	Device	Oct 28, 2022 8:25 PM
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Items per page 50 | 1-2 of 2 items 1 of 1 page < 1



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