

BUILD MOBILE APP

CONFIGURE THE APPLICATION TO RECEIVE THE DATA FROM CLOUD

Date	15 November 2022
Team ID	PNT2022TMID42318
Project Name	Project – IOT Based Real – time River Water Quality Monitoring and Control System
Maximum Marks	4 Marks

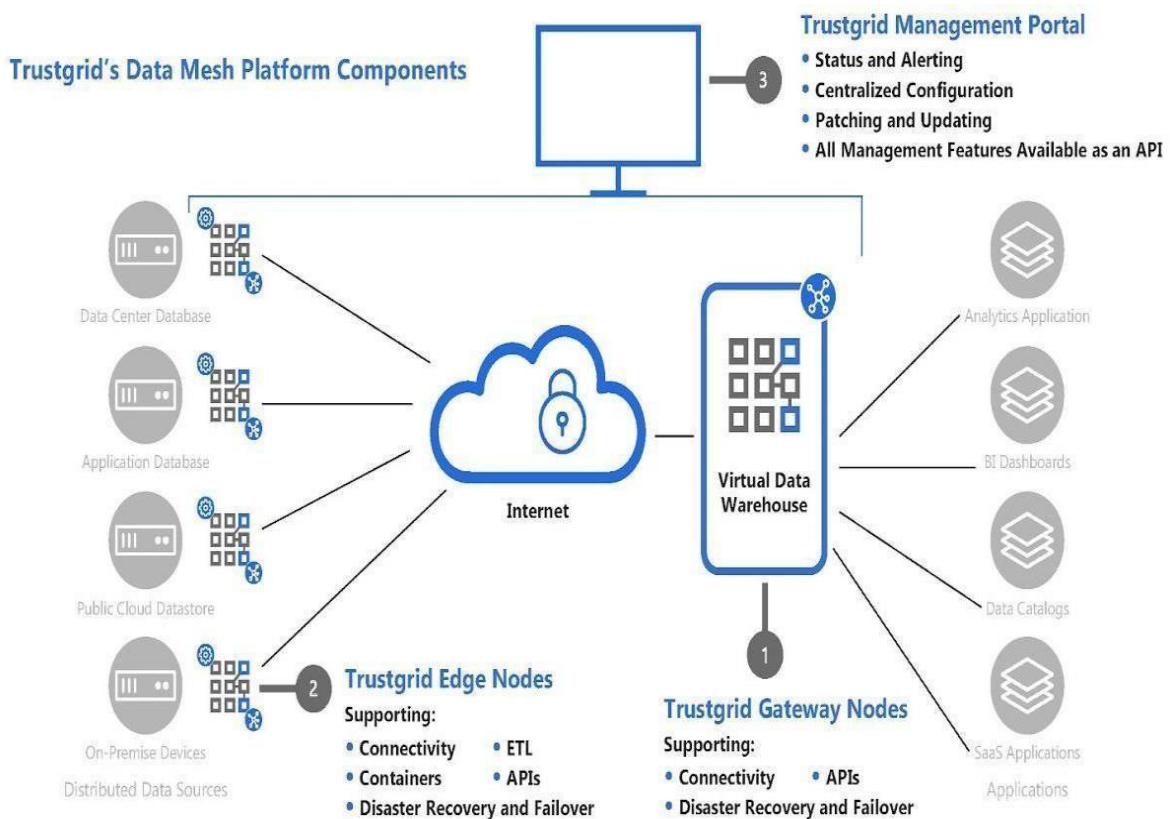
This is created through the use of gateway nodes to create a **Virtual Data Warehouse**. This Virtual Data Warehouse allows application developers to map access to remote data points.

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 shows the IBM Watson IoT Platform interface. At the top, there's a header with the platform name and a search bar. Below the header, there's a navigation bar with tabs for 'Browse', 'Action', 'Device Types', and 'Interfaces'. The main content area displays a table of events with columns: Event, Value, Format, and Last Received. The table contains five rows of data, each representing a different event type (data) with specific pH and Turbidity values. Below the table, there's a device status bar showing the device ID (192164156), status (Disconnected), device type (esp32), and the last received time (Oct 28, 2022 8:25 PM). At the bottom, there's a pagination bar indicating 'Items per page 50' and '1-2 of 2 items'.

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
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