

BUILD MOBILE APP CONFIGURE THE APPLICATION TO RECEIVE THE DATA FROM CLOUD

Date	10 November 2022
Team ID	PNT2022TMID10699
Project Name	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.

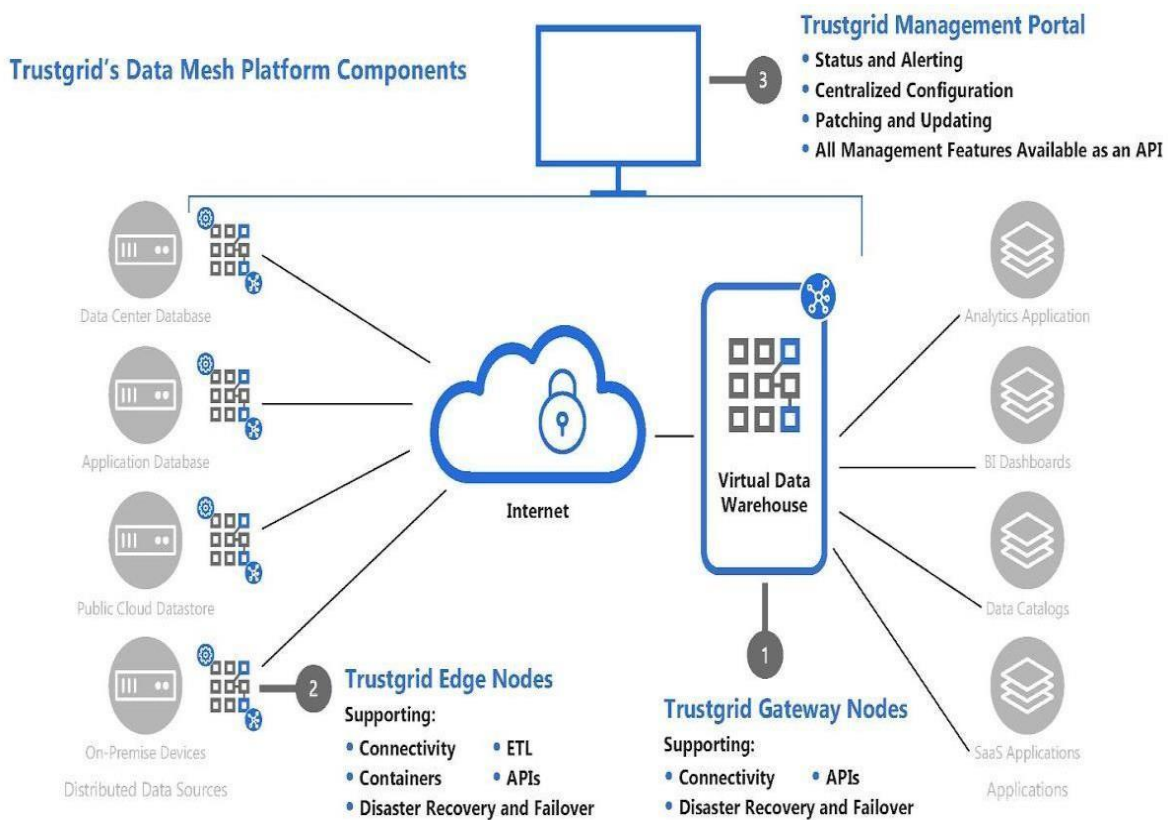
This software-defined gateway is run adjacent to the application it serves and can be deployed within a cloud environment or in a data center.

The screenshot displays the IBM Watson IoT Platform interface. At the top, there's a navigation bar with 'Browse', 'Action', 'Device Types', and 'Interfaces'. Below this, a table lists data events. The table has four columns: 'Event', 'Value', 'Format', and 'Last Received'. The data rows show pH and Turbidity values in JSON format, all received 'a few seconds ago'. Below the table, a device status bar shows a device ID '192164156', a status 'Disconnected', a device type 'esp32', and a timestamp 'Oct 28, 2022 8:25 PM'. At the bottom, there's a pagination control showing '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	<input type="checkbox"/> 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 <



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