

# BUILDMOBILEAPP

## CONFIGURETHEAPPLICATIONTORECEIVETHEDATAFROM CLOUD

Date	15November2022
TeamID	PNT2022TMID11765
ProjectName	Project– RealtimeRiver WaterQualityMonitoringandControlS ystem
MaximumMarks	4Marks

This is created through the use of gateway nodes to create a **Virtual DataWarehouse**. This VirtualDataWarehouseallowsapplicationdeveloperstomapaccesstoremotedatapoints.

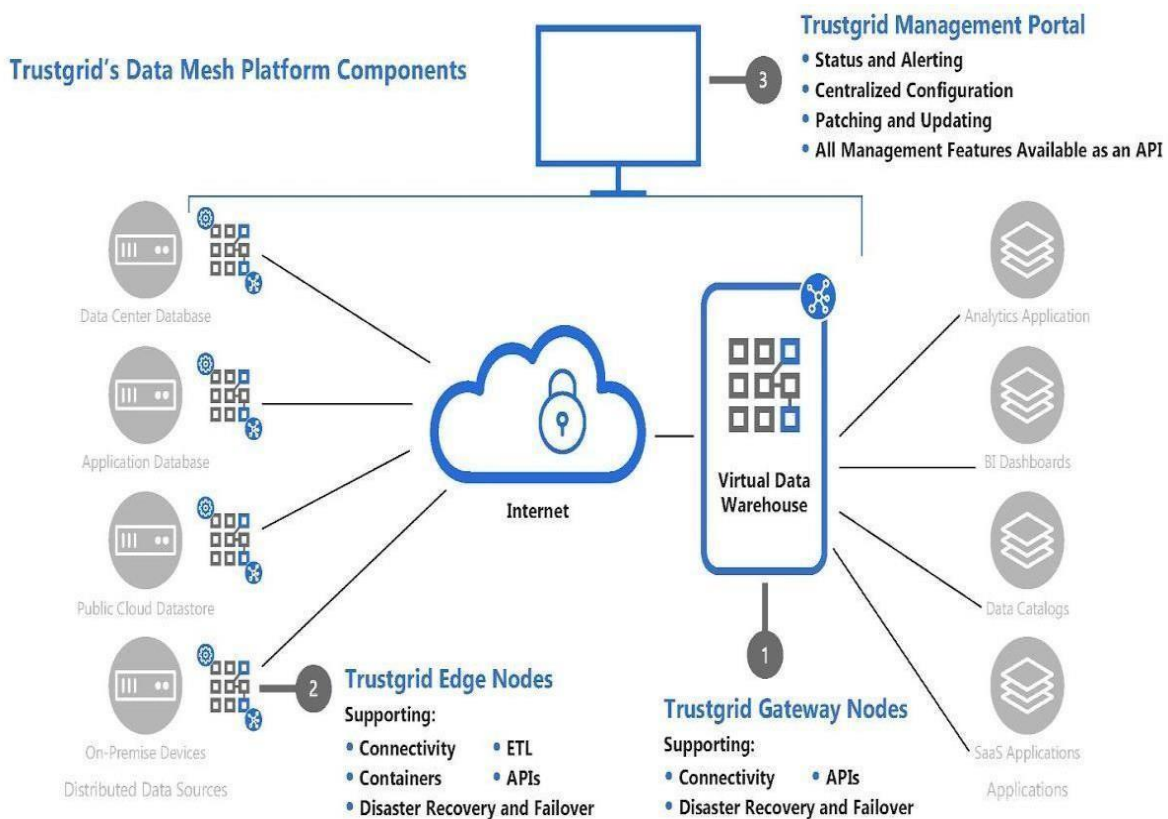
Thissoftware-definedgatewayisrunadjacenttotheapplicationitservesandcanbedeployedwithinacloudenvironmentorinad  
atacenter.

The screenshot shows the IBM Watson IoT Platform interface. At the top, there's a header with 'IBM Watson IoT Platform' and a user profile icon. Below the header, there's a navigation bar with '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 pH and Turbidity measurement. Below the table, there's a device status bar showing a device ID (192164156), status (Disconnected), type (esp32), and last received time (Oct 28, 2022 8:25 PM). At the bottom, there's a pagination bar 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	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 dataset.

**Hardware device** – The hardware device is one of the easiest methods of deployment because Trustgrid handles all of the software imaging, logistics and deployment support for the end-user. A hardware appliance is ideal for environments with limited on-site support.