Postman Tutorial: Getting Started with API Testing

1. Prerequisites:

- **Postman**: Download and install Postman from [here](#).
- **Bazefield API Access**: Ensure you have access to the **Bazefield API** with your **subdomain** (e.g., `https://<YourBazefieldSubdomain>.bazefield.com/Bazefield.Services/api`).
- **Tag Manager Access**: Identify and select the tag(s) you would like to query using the **Tag Manager** application.

2. Steps to Query API in Postman

Step 1: Open Postman

- Launch the **Postman** application.

Step 2: Create a New Request

- Click on **New** > **Request** to create a new API request.
- Enter a **Request Name** (e.g., "Read Last Known Value for WFU-T01-Windspeed").

Step 3: Set Up the API URL

- Set the **HTTP method** to **GET**.

- Enter the URL to query the API. In this case, the URL will be:

  `https://<YourBazefieldSubdomain>.bazefield.com/Bazefield.Services/api/measurements/{Keys}`

  Replace `{Keys}` with the specific tag name you want to query, for example:

  `https://<YourBazefieldSubdomain>.bazefield.com/Bazefield.Services/api/measurements/WFU-T01-Windspeed`

  Ensure that the correct **subdomain** is used for your Bazefield instance.

Step 4: Set Up Authorization (if required)

- If the API requires authorization (e.g., API key or OAuth), set up the necessary headers or authentication method in Postman.

  - For API key: Go to the **Authorization** tab, select **API Key**, and provide the key in the **Key** field (e.g., `Authorization`) and its corresponding **Value**.

Step 5: Send the Request

- After setting up the request, click **Send** to execute the API call.

Step 6: View the Response

- The response will appear in the **Response** section of Postman. This will include the latest value for the **WFU-T01-Windspeed** tag (or any tag you selected).
- The response will typically include details such as the timestamp and the value of the measurement.

Example Response:

```
{
  "status": "success",
  "data": {
    "value": "15.2",
    "unit": "m/s",
    "timestamp": "2023-11-29T10:30:00Z",
    "tag": "WFU-T01-Windspeed"
  }
}
```

The `value` field indicates the most recent measurement for the tag **WFU-T01-Windspeed**, which in this case is `15.2 m/s`.

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3. Querying the API via Chrome Browser (Alternative Method)

Step 1: Open the Browser

- Open **Google Chrome** or any browser of your choice.

Step 2: Construct the API URL

- In the address bar, type the following URL (replacing `<YourBazefieldSubdomain>` with your actual subdomain):

  `https://<YourBazefieldSubdomain>.bazefield.com/Bazefield.Services/api/measurements/WFU-T01-Windspeed`

Step 3: View the Response

- Press **Enter** to send the request.
- The response will be displayed directly in the browser, typically in **JSON** format. Depending on your browser, you might need a plugin or extension to format the response for better readability.

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4. Importing Postman Template (Optional)

- If you have received a **Postman template file** containing predefined queries, you can import it into your Postman application by:

  - Clicking on **File** > **Import**.
  - Selecting the template file provided and importing it into your Postman workspace.
  - The queries in the template can be customized with your own values.