Data Flow from Producers to Sources

Configurations · https://cbotai.shahrear.msf.bd/docs/data-flow-from-producers-to-sources/

Overview

This documentation outlines the data flow from producers to various data sources as depicted in the image.

Components

Data Producer

- **User**: An individual or entity that initiates data generation.
- **Raspberry Pi**: A small computing device used for data processing and transmission.
- **IoT Sensor**: A device that collects data from the environment.
- **VM (Virtual Machine)**: A virtual environment used for additional data processing.

Data Source

- **Prometheus**: A monitoring and alerting toolkit designed for reliability and performance.
- **InfluxDB**: A time-series database optimized for high-write and query loads.
- **Netdata**: A real-time performance monitoring tool providing insights into system health and performance.
- **VM**: Represents another virtual machine used to manage or store data.

Data Flow

The flow of data is illustrated as follows:

- Data is produced by the User, Raspberry Pi, IoT Sensor, and VM.

- This data is transmitted to the Data Source systems including Prometheus, InfluxDB, and Netdata.
- The VM is also involved in managing data received from the various producers.

Conclusion

This structure facilitates efficient data management and analysis across multiple platforms and devices.