BHNI Monthly Review

April 2025

**Presented on
10-April-2025**

Agenda

- BHNI Automation Process

- BHNI Process Flow

- BHNI Automation Demo

- Q & A

BHNI Automation Process

❑ **<u>Tech Stack</u>**

  ➢ Robot, Python, MySQL DB, Docker, Kafka.

❑ **<u>Input</u>**

  ➢ Transfer the PCAP and TEXT files to OpEdge-8D device.
  ➢ Fetch the running container and place the files inside the docker container.

❑ **<u>Simulation Process</u>**

  ➢ Update epoch time of the text file.
  ➢ Publish the text file to "Input Master Data" producer topic
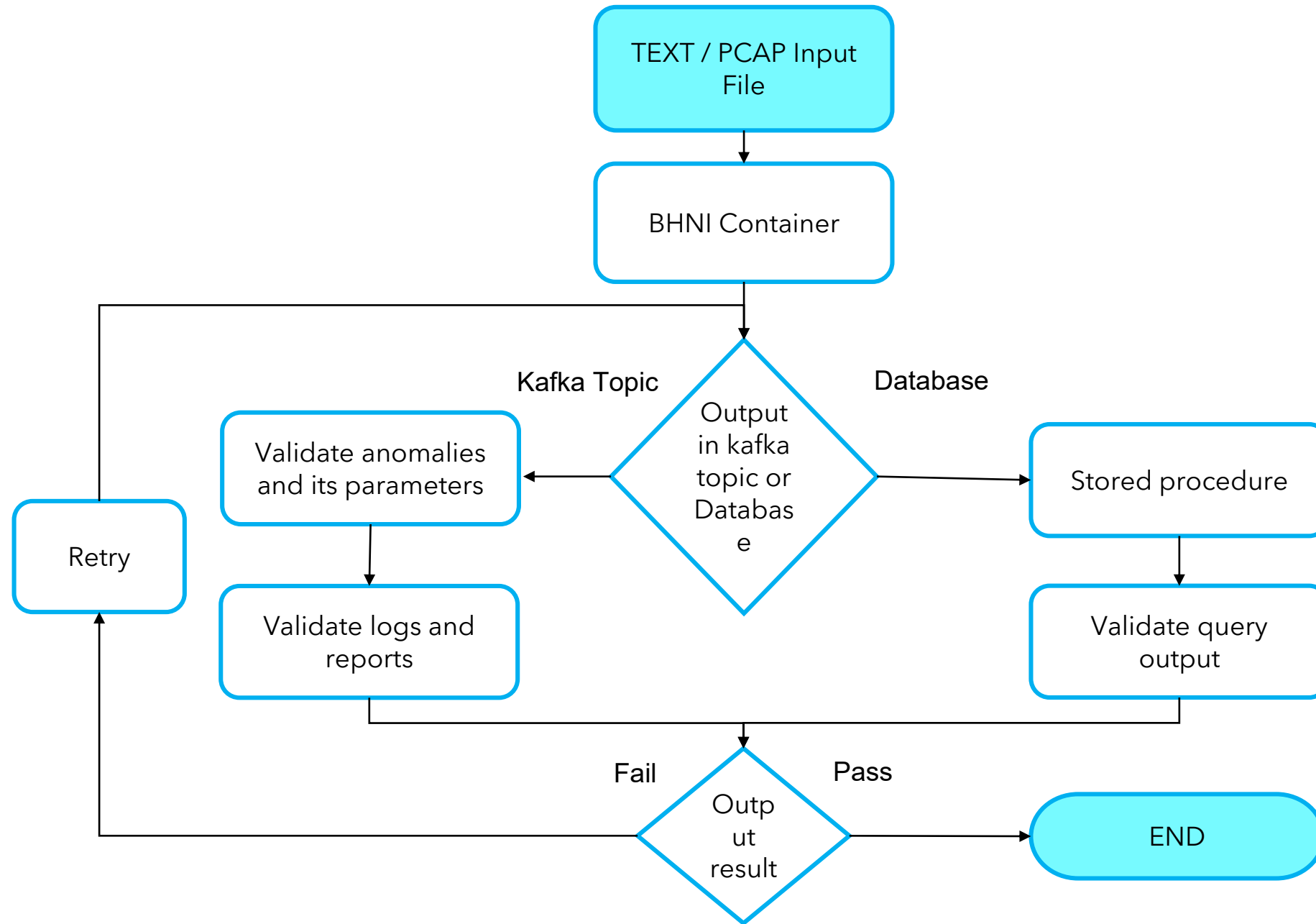 ➢ Check for incoming messages in consumer topic "Protocol Anomaly".

BHNI Automation Process

> ➢ Run tcpreplay command with pcap file.
> ➢ Check for incoming messages in consumer topic "Protocol Anomaly".

❑ **Validation and Reporting**

> ➢ Filter the consumed messages containing anomalies and matching N/W data against the TEXT/PCAP data.
> ➢ Analyze logs, capture matched data and report.

BHNI QA Automation

Test Case Progress Overview

❑ **Test Case Completion Status:**

➢ - Completed: 130

➢ - In-Progress: 10

➢ - To-Do: 35

➢ - Total: 175 tasks

BHNI QA Automation Demo

Q&A

Thank You