

## **Saadi M Muzzammil**

Spark & Kafka Admin | Work Status Report Project: SBI ePay 2.0 | Kafka Activities

### **1. Kafka Performance Testing – perf Environment**

- Actively involved in Kafka performance testing activities in the perf environment.
  - Monitored Kafka as well as OpenShift (OCP) cluster during load testing:
    - Kafka brokers, topics, partitions, and consumer lag
    - OpenShift nodes and pod health
    - CPU, memory, and storage utilization
  - Observed system behavior under load and validated platform stability.
  - Ensured no critical pod restarts or abnormal resource saturation during performance tests.
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### **2. Kafka Console Web UI – Tuning & Enablement**

- Tuned and stabilized Kafka Console Web UI in the following environments:
    - dev-kafka
    - perf-kafka
  - Worked on Kafka Console enablement and validation in:
    - pre-prod DC
    - pre-prod DR
  - Currently working on Kafka Console setup and validation for:
    - prod DC
    - prod DR
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### **3. NEFT Kafka–MQ Integration Testing**

- Successfully completed end-to-end NEFT testing.
  - Validated Kafka topics, connector behavior, and message flow consistency.
  - Performed handover to NEFT application developers by sharing:
    - Kafka topic details
    - Queue and testing information
  - Enabled developers to proceed with further independent testing.
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### **4. Spark Setup & Developer Support**

- Set up Apache Spark on developers' local systems.
- Troubleshoot and resolved issues related to:
  - Spark installation

- Local configuration and dependency problems
  - Ensured developers were unblocked and able to continue development and testing.
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## 5. Monitoring & Observability (Non-Production)

- Worked on Grafana dashboards for Kafka monitoring.
  - Reviewed and validated Dynatrace monitoring for Kafka components.
  - Improved monitoring visibility and observability for non-production Kafka environments.
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## 6. Platform Stability & DevOps Activities

- Continued stabilization and tuning of Kafka platform components.
  - Worked on Kafka Connect and supporting operators across environments.
  - Ensured configuration consistency and operational stability across dev, perf, and pre-prod environments.
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## 7. Skill Enhancement

- Continued learning Kafka internals including architecture, performance, and operations.
  - Deepened understanding of DevOps and OpenShift operations related to Kafka.
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## Overall Outcome

- Kafka platform remained stable and observable during performance testing.
- NEFT integration progressed successfully to the developer testing phase.
- Monitoring, Kafka Console visibility, and developer enablement were significantly improved.