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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.