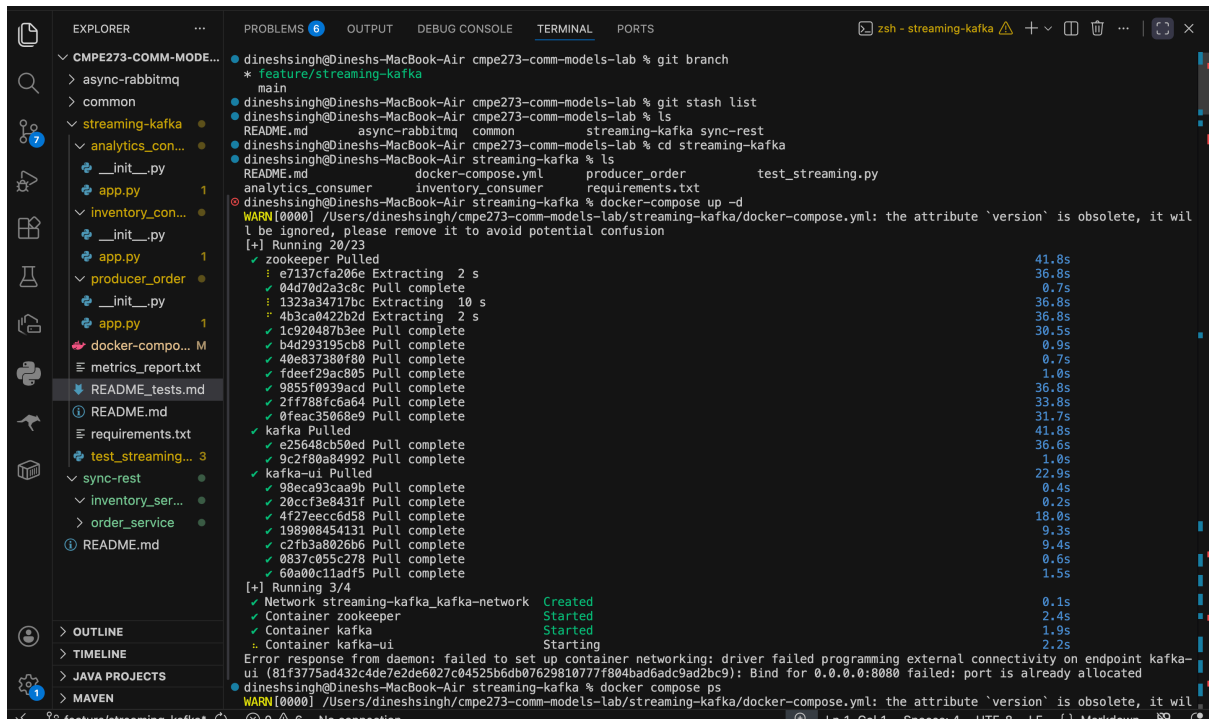


273 Screen shots for Testing - Part C

- Produce 10k events
- Show consumer lag under throttling
- Show replay producing consistent metrics (or explain why not)



The screenshot shows a VS Code terminal window with the following content:

```
dineshsingh@Dineshs-MacBook-Air cmpe273-comm-models-lab % git branch
* feature/streaming-kafka
main
dineshsingh@Dineshs-MacBook-Air cmpe273-comm-models-lab % git stash list
dineshsingh@Dineshs-MacBook-Air cmpe273-comm-models-lab % ls
README.md  async-rabbitmq  common  streaming-kafka  sync-rest
dineshsingh@Dineshs-MacBook-Air cmpe273-comm-models-lab % cd streaming-kafka
dineshsingh@Dineshs-MacBook-Air streaming-kafka % ls
README.md  docker-compose.yml  producer_order  test_streaming.py
dineshsingh@Dineshs-MacBook-Air streaming-kafka % docker-compose up -d
WARN[0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Running 20/23
  ✓ zookeeper Pulled
    e7137cfa206e Extracting 2 s
    04d70d2a3c8c Pull complete
    1323a34717bc Extracting 10 s
    4b3ca0422b2d Extracting 2 s
    1c920487b3ee Pull complete
    b4d293195cb8 Pull complete
    40e837380f80 Pull complete
    fdee29ac805 Pull complete
    9855f0939acd Pull complete
    2ff788fc6a64 Pull complete
    0feac35068e9 Pull complete
  ✓ kafka Pulled
    e25640cb50ed Pull complete
    9c2f80a84992 Pull complete
  ✓ kafka-ui Pulled
    98eca93caa9b Pull complete
    20ccf3e8431f Pull complete
    4f27eccc6d58 Pull complete
    198008454131 Pull complete
    c2fb3a8026b6 Pull complete
    0837c055c278 Pull complete
    60a00c11edf5 Pull complete
[+] Running 3/4
  ✓ Network streaming-kafka_kafka-network Created
  ✓ Container zookeeper Started
  ✓ Container kafka Started
  ✓ Container kafka-ui Starting
Error response from daemon: failed to set up container networking: driver failed programming external connectivity on endpoint kafka-ui (81f3775ad432c4de7e2de6827c04525b6db07629810777f804bad6adc9ad2bc9): Bind for 0.0.0.0:8080 failed: port is already allocated
dineshsingh@Dineshs-MacBook-Air streaming-kafka % docker compose ps
WARN[0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion
```

273 Screen shots for Testing - Part C

The screenshot shows a VS Code interface with a file explorer on the left and a terminal window on the right. The file explorer shows a project structure for 'CMPE273-COMM-MODE-...' with folders like 'async-rabbitmq', 'common', 'streaming-kafka', 'analytics_con...', 'inventory_con...', 'producer_order', 'docker-compo...', 'metrics_report.txt', 'README_tests.md', 'README.md', 'requirements.txt', 'test_streaming...', 'sync-rest', 'inventory_ser...', and 'order_service'. The terminal window shows the output of a 'docker-compose up' command. The output indicates that the 'version' attribute in the 'docker-compose.yml' file is obsolete and will be ignored. The containers 'zookeeper', 'kafka', and 'kafka-ui' are pulled and started successfully. The 'network streaming-kafka_kafka-network' is created. The 'Container zookeeper' and 'Container kafka' are started. The 'Container kafka-ui' is starting. The terminal output also shows a warning about the 'version' attribute being obsolete and a message about the 'driver failed programming external connectivity on endpoint kafka-ui'.

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README.md  docker-compose.yml  producer_order  test_streaming.py
analytics_consumer  inventory_consumer  requirements.txt
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    fdeef29ac805 Pull complete
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    2ff788fc6a64 Pull complete
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    9c2f80a84992 Pull complete
  ✓ kafka-ui Pulled
    98eca93caa9b Pull complete
    20ccf3e8431f Pull complete
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    198908454131 Pull complete
    c2fb3a8026b6 Pull complete
    0837c055c278 Pull complete
    60a00c11adf5 Pull complete
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  ✓ Container kafka Started
  ⚡ Container kafka-ui Starting
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dineshsingh@Dineshs-MacBook-Air streaming-kafka % docker compose ps
WARN[0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
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analytics_consumer  inventory_consumer  requirements.txt
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dineshsingh@Dineshs-MacBook-Air streaming-kafka % docker compose ps
WARN[0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
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273 Screen shots for Testing - Part C

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main
dineshsingh@Dineshs-MacBook-Air cmpe273-comm-models-lab % git stash list
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README.md  async-rabbitmq  common  streaming-kafka  sync-rest
dineshsingh@Dineshs-MacBook-Air cmpe273-comm-models-lab % cd streaming-kafka
dineshsingh@Dineshs-MacBook-Air streaming-kafka % ls
README.md  docker-compose.yml  producer_order  test_streaming.py
analytics_consumer  inventory_consumer  requirements.txt
dineshsingh@Dineshs-MacBook-Air streaming-kafka % docker-compose up -d
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WARN [0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
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The screenshot shows a VS Code interface with a file explorer on the left and a terminal window on the right. The file explorer shows a project structure for 'CMPE273-COMM-MODEL...' with folders like 'async-rabbitmq', 'common', 'streaming-kafka', 'analytics_consumer', 'inventory_consumer', 'producer_order', 'docker-compose...', 'metrics_report.txt', 'README_tests.md', 'README.md', 'requirements.txt', 'test_streaming...', 'sync-rest', 'inventory_ser...', and 'order_service'. The terminal window shows the output of a 'docker-compose up' command. The output indicates that the 'version' attribute in the 'docker-compose.yml' file is obsolete and will be ignored. The containers 'zookeeper', 'kafka', and 'kafka-ui' are pulled and started successfully. The 'Network streaming-kafka_kafka-network' is created. The 'Container zookeeper' is started. The 'Container kafka' is started. The 'Container kafka-ui' is started. The output also shows a warning about the 'version' attribute being obsolete.

```
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* feature/streaming-kafka
main
dineshsingh@Dineshs-MacBook-Air cmpe273-comm-models-lab % git stash list
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README.md  async-rabbitmq  common  streaming-kafka  sync-rest
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dineshsingh@Dineshs-MacBook-Air streaming-kafka % ls
README.md  docker-compose.yml  producer_order  test_streaming.py
analytics_consumer  inventory_consumer  requirements.txt
dineshsingh@Dineshs-MacBook-Air streaming-kafka % docker-compose up -d
WARN [0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
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    98eca93caa9b Pull complete
    20ccf3e8431f Pull complete
    4f27eccc6d58 Pull complete
    198908454131 Pull complete
    c2fb3a8026b6 Pull complete
    0837c055c278 Pull complete
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[+] Running 3/4
  ✓ Network streaming-kafka_kafka-network Created
  ✓ Container zookeeper Started
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dineshsingh@Dineshs-MacBook-Air streaming-kafka % docker compose ps
WARN [0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
```

273 Screen shots for Testing - Part C

The screenshot shows a VS Code interface with a file explorer on the left and a terminal window on the right. The file explorer shows a project structure for 'CMPE273-COMM-MODEL...' with folders like 'async-rabbitmq', 'common', 'streaming-kafka', 'analytics_consumer', 'inventory_consumer', 'producer_order', 'docker-compose...', 'metrics_report.txt', 'README_tests.md', 'README.md', 'requirements.txt', 'test_streaming...', 'sync-rest', 'inventory_ser...', and 'order_service'. The terminal window shows the output of a 'docker-compose up' command. The output indicates that the 'version' attribute in the 'docker-compose.yml' file is obsolete and will be ignored. The containers 'zookeeper', 'kafka', and 'kafka-ui' are pulled and started successfully. The 'network streaming-kafka_kafka-network' is created. The 'Container zookeeper' and 'Container kafka' are started. The 'Container kafka-ui' is starting. The terminal also shows a warning message: 'WARN [0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion'.

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273 Screen shots for Testing - Part C

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analytics_consumer  inventory_consumer  requirements.txt
dineshsingh@Dineshs-MacBook-Air streaming-kafka % docker-compose up -d
WARN [0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it will
l be ignored, please remove it to avoid potential confusion
[+] Running 20/23
  ✓ zookeeper Pulled
    e7137cfa206e Extracting 2 s
    04d70d2a3c8c Pull complete
    1323a34717bc Extracting 10 s
    4b3ca0422b2d Extracting 2 s
    1c920487b3ee Pull complete
    b4d293195cb8 Pull complete
    40e837380f80 Pull complete
    fdeef29ac805 Pull complete
    9855f0939acd Pull complete
    2ff788fc6a64 Pull complete
    0feac35068e9 Pull complete
  ✓ kafka Pulled
    e25648cb50ed Pull complete
    9c2f80a84992 Pull complete
  ✓ kafka-ui Pulled
    98eca93caa9b Pull complete
    20ccf3e8431f Pull complete
    4f27eccc6d58 Pull complete
    198908454131 Pull complete
    c2fb3a8026b6 Pull complete
    0837c055c278 Pull complete
    60a00c11adf5 Pull complete
[+] Running 3/4
  ✓ Network streaming-kafka_kafka-network Created
  ✓ Container zookeeper Started
  ✓ Container kafka Started
  ⚡ Container kafka-ui Starting
Error response from daemon: failed to set up container networking: driver failed programming external connectivity on endpoint kafka-
ui (81f3775ad432c4de7e2de6027c04525b6db07629810777f804bad6adc9ad2bc9): Bind for 0.0.0.0:8080 failed: port is already allocated
dineshsingh@Dineshs-MacBook-Air streaming-kafka % docker compose ps
WARN [0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it wil
```

The screenshot shows a VS Code interface with a file explorer on the left and a terminal window on the right. The file explorer shows a project structure for 'CMPE273-COMM-MODEL...' with folders like 'async-rabbitmq', 'common', 'streaming-kafka', 'analytics_consumer', 'inventory_consumer', 'producer_order', 'docker-compose...', 'metrics_report.txt', 'README_tests.md', 'README.md', 'requirements.txt', 'test_streaming...', 'sync-rest', 'inventory_ser...', and 'order_service'. The terminal window shows the output of a 'docker-compose up' command. The output indicates that the 'version' attribute in the 'docker-compose.yml' file is obsolete and will be ignored. The containers 'zookeeper', 'kafka', and 'kafka-ui' are pulled and started successfully. The 'network streaming-kafka_kafka-network' is created. The 'Container zookeeper' and 'Container kafka' are started. The 'Container kafka-ui' is starting. The terminal also shows a warning message: 'WARN [0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion'.

```
dineshsingh@Dineshs-MacBook-Air cmpe273-comm-models-lab % git branch
* feature/streaming-kafka
main
dineshsingh@Dineshs-MacBook-Air cmpe273-comm-models-lab % git stash list
dineshsingh@Dineshs-MacBook-Air cmpe273-comm-models-lab % ls
README.md  async-rabbitmq  common  streaming-kafka  sync-rest
dineshsingh@Dineshs-MacBook-Air cmpe273-comm-models-lab % cd streaming-kafka
dineshsingh@Dineshs-MacBook-Air streaming-kafka % ls
README.md  docker-compose.yml  producer_order  test_streaming.py
analytics_consumer  inventory_consumer  requirements.txt
dineshsingh@Dineshs-MacBook-Air streaming-kafka % docker-compose up -d
WARN [0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it wil
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[+] Running 20/23
  ✓ zookeeper Pulled
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dineshsingh@Dineshs-MacBook-Air streaming-kafka % docker compose ps
WARN [0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it wil
```

273 Screen shots for Testing - Part C

```
dineshsingh@dineshs-MacBook-Air cmpe273-comm-models-lab % git branch
* feature/streaming-kafka

dineshsingh@dineshs-MacBook-Air cmpe273-comm-models-lab % git stash list
dineshsingh@dineshs-MacBook-Air cmpe273-comm-models-lab % ls
README.md  async-rabbitmq  common  streaming-kafka  sync-rest
dineshsingh@dineshs-MacBook-Air cmpe273-comm-models-lab % cd streaming-kafka
dineshsingh@dineshs-MacBook-Air streaming-kafka % ls
README.md  docker-compose.yml  producer_order  test_streaming.py
analytics_consumer  inventory_consumer  requirements.txt
dineshsingh@dineshs-MacBook-Air streaming-kafka % docker-compose up -d
WARN[0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
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  ✓ 40e837380f80 Pull complete
  ✓ fdeeef29ac805 Pull complete
  ✓ 9855f0939acd Pull complete
  ✓ 2ff788fc6a64 Pull complete
  ✓ 0feac35068e9 Pull complete
  ✓ kafka Pulled
    e25648cb50ed Pull complete
    9c2f80a84992 Pull complete
  ✓ kafka-ui Pulled
    98eca93ca9b0 Pull complete
    20ccf3e8431f Pull complete
    4f27eccc6d58 Pull complete
    198008454131 Pull complete
    c2fb3a8026b6 Pull complete
    0837c055c278 Pull complete
    60a00c11adf5 Pull complete
[+] Running 3/4
  ✓ Network streaming-kafka_kafka-network Created
  ✓ Container zookeeper Started
  ✓ Container kafka Started
  ✓ Container kafka-ui Starting
Error response from daemon: failed to set up container networking: driver failed programming external connectivity on endpoint kafka-ui (81f3775ad432c4de7e2de6027c04525b6db07629810777f804bad6adc9ad2bc9): Bind for 0.0.0.0:8080 failed: port is already allocated
dineshsingh@dineshs-MacBook-Air streaming-kafka % docker compose ps
WARN[0000] /Users/dineshsingh/cmpe273-comm-models-lab/streaming-kafka/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
```