■ Kafka, Zookeeper, and Docker Command Cheat Sheet

■ Docker Essentials

- docker info - Shows Docker system info
- docker ps - Lists running containers
- docker ps -a - Lists all containers
- docker stop - Stop container
- docker start - Start container
- docker rm - Remove container
- docker images - List all images
- docker rmi - Remove image
- docker logs - View logs
- docker-compose up -d - Start services in detached mode
- docker-compose down - Stop and remove all containers
- docker volume ls - List Docker volumes

■ Zookeeper Commands

- docker exec -it zookeeper /bin/bash - Open shell in Zookeeper container
- zkCli.sh - Start Zookeeper CLI
- ls / - List root znodes
- ls /brokers/topics - List all Kafka topics in Zookeeper

■ Kafka Commands

- docker exec -it kafka /bin/bash - Open shell in Kafka container
- kafka-topics.sh --create --topic test-topic --bootstrap-server localhost:9092 --partitions 3 --replication-factor 1 - Create topic
- kafka-topics.sh --list --bootstrap-server localhost:9092 - List topics
- kafka-topics.sh --describe --topic test-topic --bootstrap-server localhost:9092 - Describe topic
- kafka-topics.sh --delete --topic test-topic --bootstrap-server localhost:9092 - Delete topic
- kafka-console-producer.sh --topic test-topic --bootstrap-server localhost:9092 - Produce messages
- kafka-console-consumer.sh --topic test-topic --from-beginning --bootstrap-server localhost:9092 - Consume messages
- kafka-broker-api-versions.sh --bootstrap-server localhost:9092 - Show Kafka API versions

■ Troubleshooting Tips

- Kafka not connecting - Ensure both Kafka and Zookeeper are running
- Topic not visible - Restart Kafka and re-list topics
- Connection refused - Start Zookeeper first
- Address already in use - Stop old containers
- Failed to connect to broker - Verify bootstrap-server

■ Cleanup Commands

- docker-compose down -v - Stop and remove containers with volumes
- docker system prune -a --volumes - Remove all unused Docker resources (■■ use with caution)