Share and Troubleshoot Apache Kafka on Heroku



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Share Apache Kafka Between Apps



Sharing Kafka







Sharing Kafka





Apache Kafka Logs and Metrics



Demo



Deleting a shared add-on



Rotate Kafka Credentials



Cyber Attacks



Enhanced Security



Rotating Credentials



A new set of credentials are generated

Application config vars are updated

Old and new certificates are maintained for 5 minutes

New certificates comes into effect



Migrate Kafka Add-on



Migration Scenarios



Upgrading Kafka plan

Downgrading Kafka plan

Upgrading clusters



Migration Strategies



By entering maintenance mode

By not entering maintenance mode

- Involves code change



Demo



Kafka migration by entering maintenance mode



Testing Kafka Applications for Resilience



Broker Regions

Common runtimes in the US or EU region

Basic plan

Frankfurt, Sydney or Tokyo regions

Private spaces



Broker Resilience



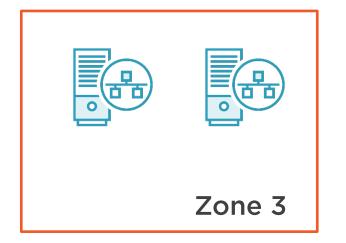


Extended Plan









Demo



Testing fault tolerance

- Cannot be performed on a basic plan
- Standard-O and above
- Must be performed only in staging area



Go to Heroku dashboard and DELETE the Kafka add-on



Summary



Provision Kafka add-on

Multi tenant Kafka architecture

Provisioned topics and consumer groups

Deployed java application on Heroku

Share Kafka between Heroku apps

Fault tolerance testing

