KIP-191: KafkaConsumer.subscribe() overload that takes just Pattern

Status

Current state: *Accepted*

Discussion thread: *here*

JIRA: *here*

Please keep the discussion on the mailing list rather than commenting on the wiki (wiki discussions get unwieldy fast).

Motivation

Request: provide subscribe(Pattern pattern) overload, similar to subscribe(Collection<String> topics),

Today, for a consumer to subscribe to topics based on a regular expression (i.e. Pattern), the only method option also requires to pass in a ConsumerRebalanceListener. This is not user-friendly to require this second argument. It seems new NoOpConsumerRebalanceListener() has to be used.

Use case: multi datacenter, allowing easier subscription to multiple topics prefixed with datacenter names, just by using a pattern subscription.

Public Interfaces

The org.apache.kafka.clients.consumer.KafkaConsumer class will have a new method overload: subscribe(Pattern pattern)

Proposed Changes

The org.apache.kafka.clients.consumer.KafkaConsumer class should have a new method overload: subscribe(Pattern pattern) that calls subscribe(Pattern pattern, ConsumerRebalanceListener listener) with new NoOpConsumerRebalanceListener() as the second argument.

Compatibility, Deprecation, and Migration Plan

- No breaking change is expected.
- No mandatory migration is necessary.
- No existing behavior will be deprecated or removed.

Rejected Alternatives

n/a