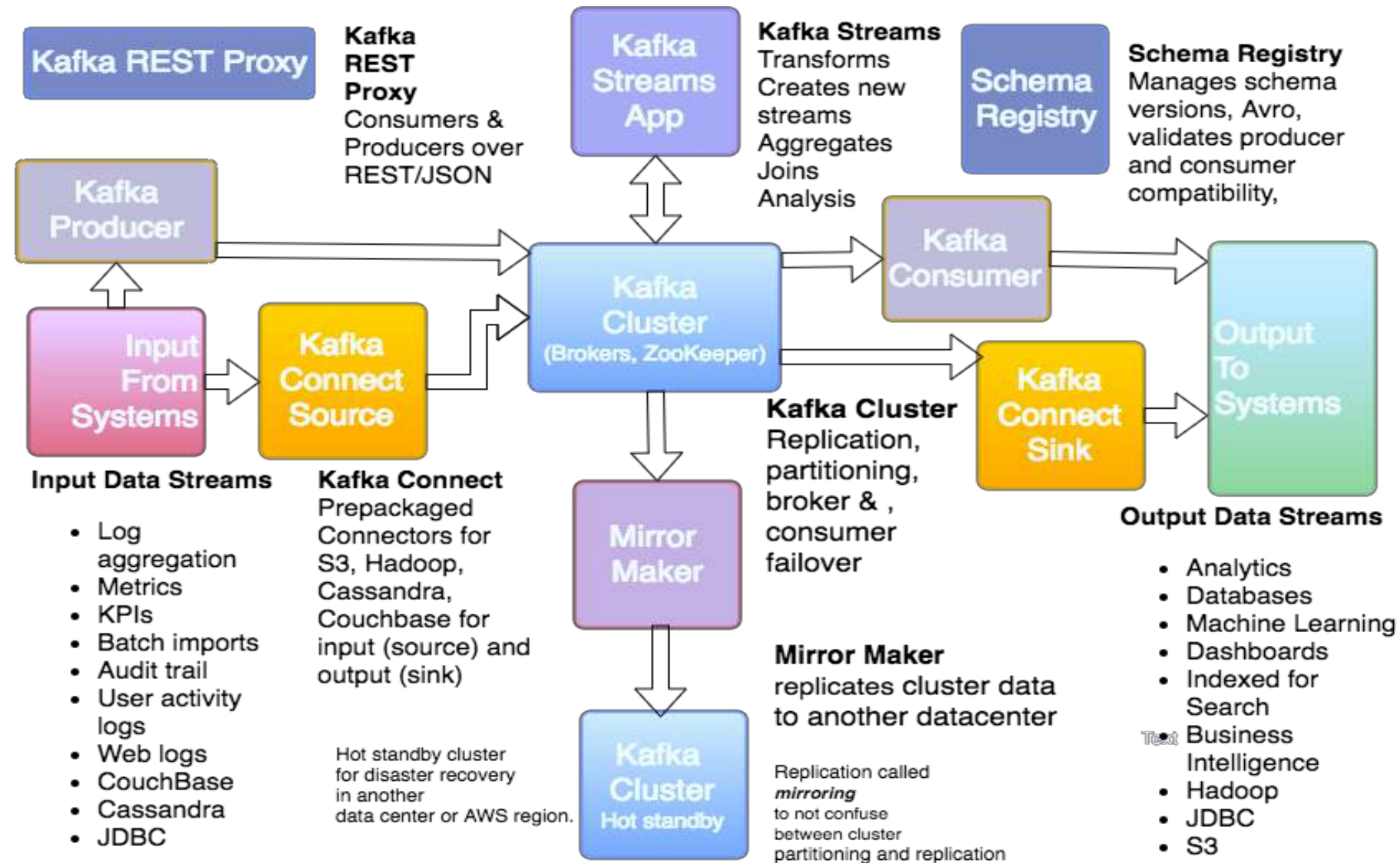
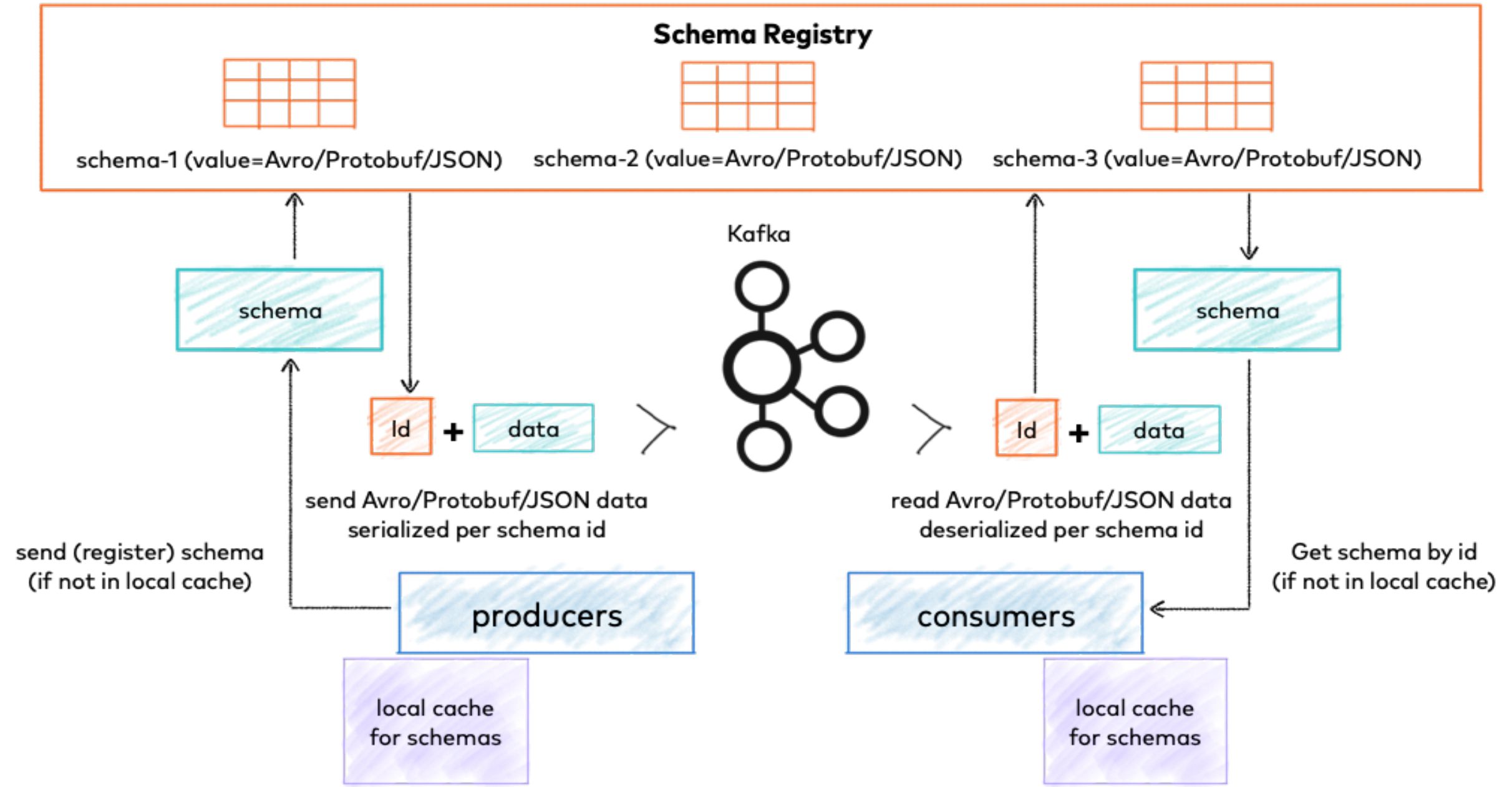


Kafka Ecosystem



Schema Registry

Confluent Schema Registry



Confluent Schema Registry - Single Primary Architecture

ALL TOPICS >

transactions

Overview Messages Schema Configuration

Value

Key

 Edit schema

 Version history

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Format: AVRO Version: 1

```
1  {
2    "fields": [
3      {
4        "name": "id",
5        "type": "string"
6      },
7      {
8        "name": "amount",
9        "type": "double"
10     }
11   ],
12   "name": "Payment",
13   "namespace": "io.confluent.examples.clients.basicavro",
14   "type": "record"
15 }
```

Confluent Schema Registry - Single Primary Architecture

etc/schema-registry/schema-registry.properties

```
# Specify the address the socket server listens on, e.g. listeners = PLAINTEXT://your.host.name:9092
listeners=http://0.0.0.0:8081

# The host name advertised in ZooKeeper. This must be specified if your running Schema Registry
# with multiple nodes.
host.name=192.168.50.1

# List of Kafka brokers to connect to, e.g. PLAINTEXT://hostname:9092,SSL://hostname2:9092
kafkastore.bootstrap.servers=PLAINTEXT://hostname:9092,SSL://hostname2:9092
```

Configuring Avro

Kafka applications using Avro data and Schema Registry need to specify at least two configuration parameters:

- Avro serializer or deserializer
- Properties to connect to Schema Registry

```
...
import io.confluent.kafka.serializers.KafkaAvroSerializer;
...
props.put(ProducerConfig.KEY_SERIALIZER_CLASS_CONFIG, StringSerializer.class);
props.put(ProducerConfig.VALUE_SERIALIZER_CLASS_CONFIG, KafkaAvroSerializer.class);
...
KafkaProducer<String, Payment> producer = new KafkaProducer<String, Payment>(props);
final Payment payment = new Payment(orderId, 1000.00d);
final ProducerRecord<String, Payment> record = new ProducerRecord<String, Payment>(TOPIC, payment
.getId().toString(), payment);
producer.send(record);
...
```

```
...
import io.confluent.kafka.serializers.KafkaAvroDeserializer;
...
props.put(ConsumerConfig.KEY_DESERIALIZER_CLASS_CONFIG, StringDeserializer.class);
props.put(ConsumerConfig.VALUE_DESERIALIZER_CLASS_CONFIG, KafkaAvroDeserializer.class);
props.put(KafkaAvroDeserializerConfig.SPECIFIC_AVRO_READER_CONFIG, true);
...
KafkaConsumer<String, Payment> consumer = new KafkaConsumer<>(props);
consumer.subscribe(Collections.singletonList(TOPIC));
while (true) {
    ConsumerRecords<String, Payment> records = consumer.poll(100);
    for (ConsumerRecord<String, Payment> record : records) {
        String key = record.key();
        Payment value = record.value();
    }
}
...
```