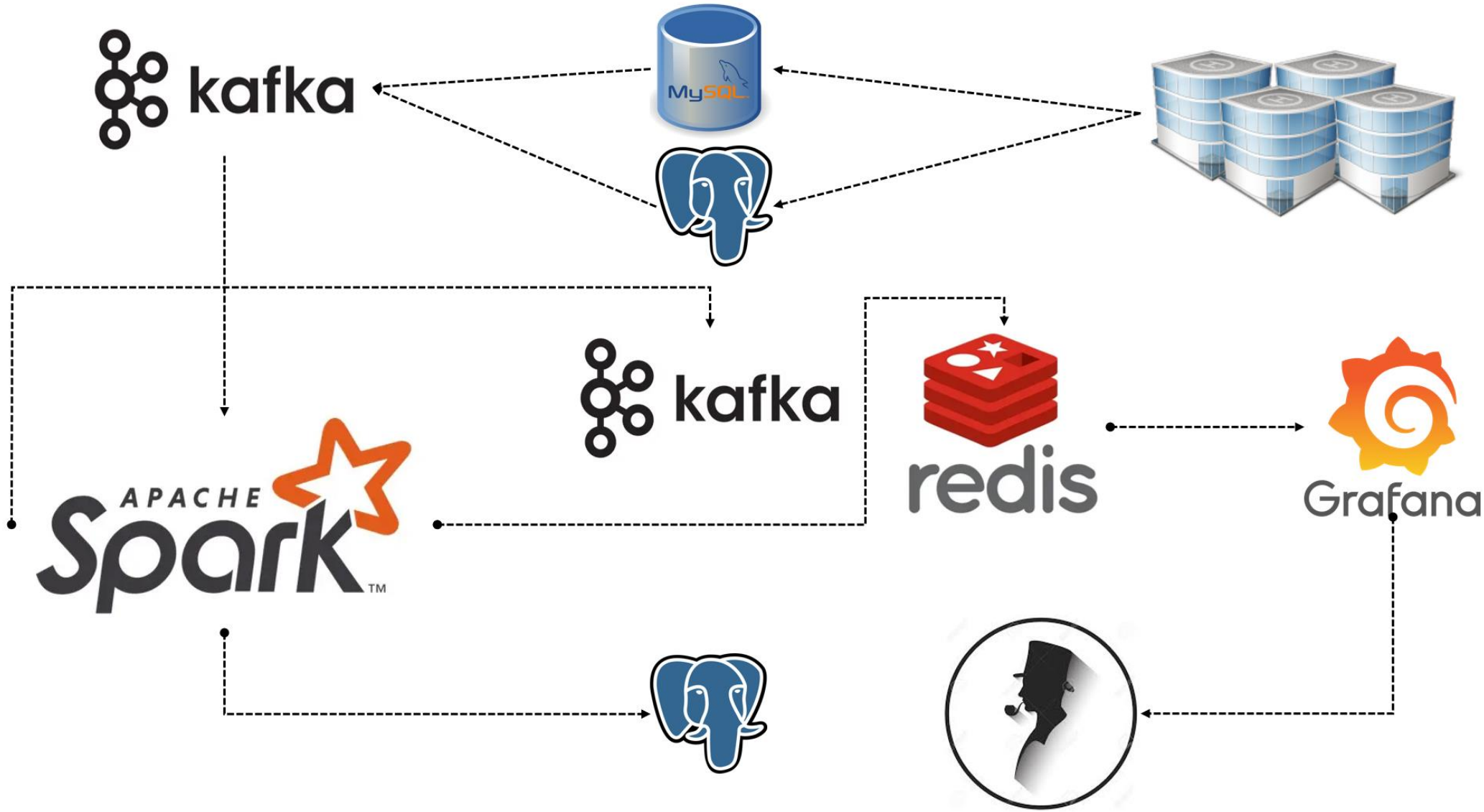
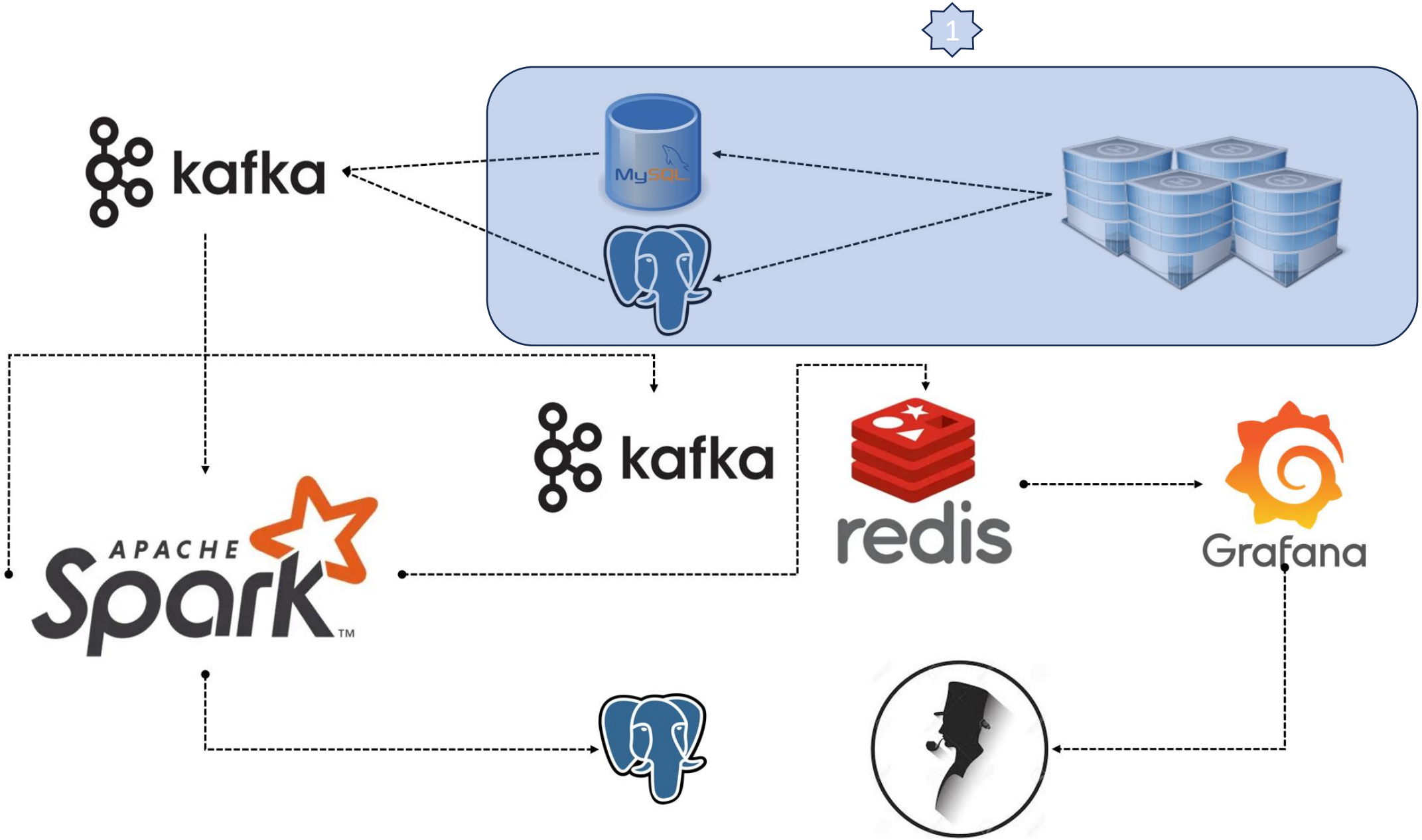
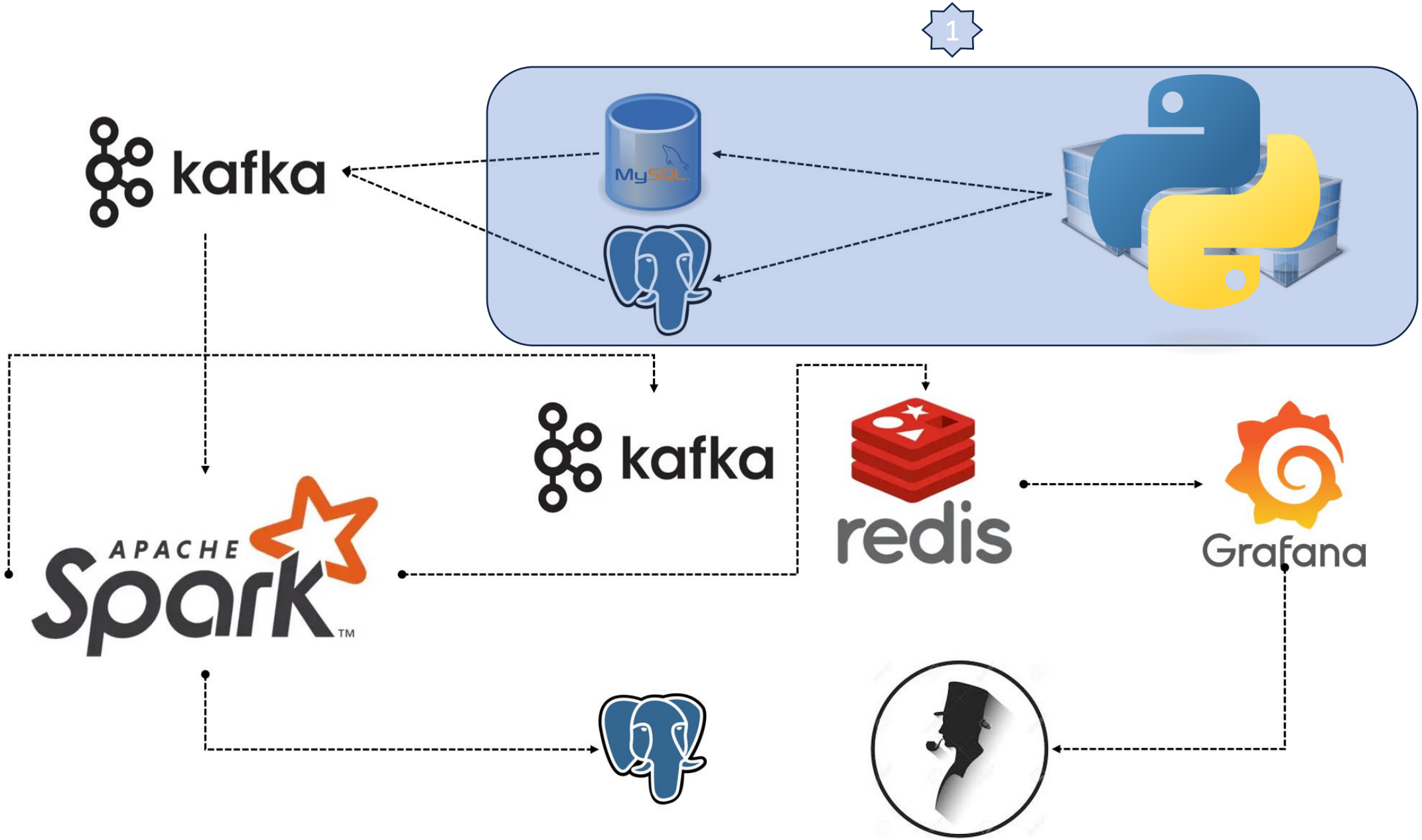
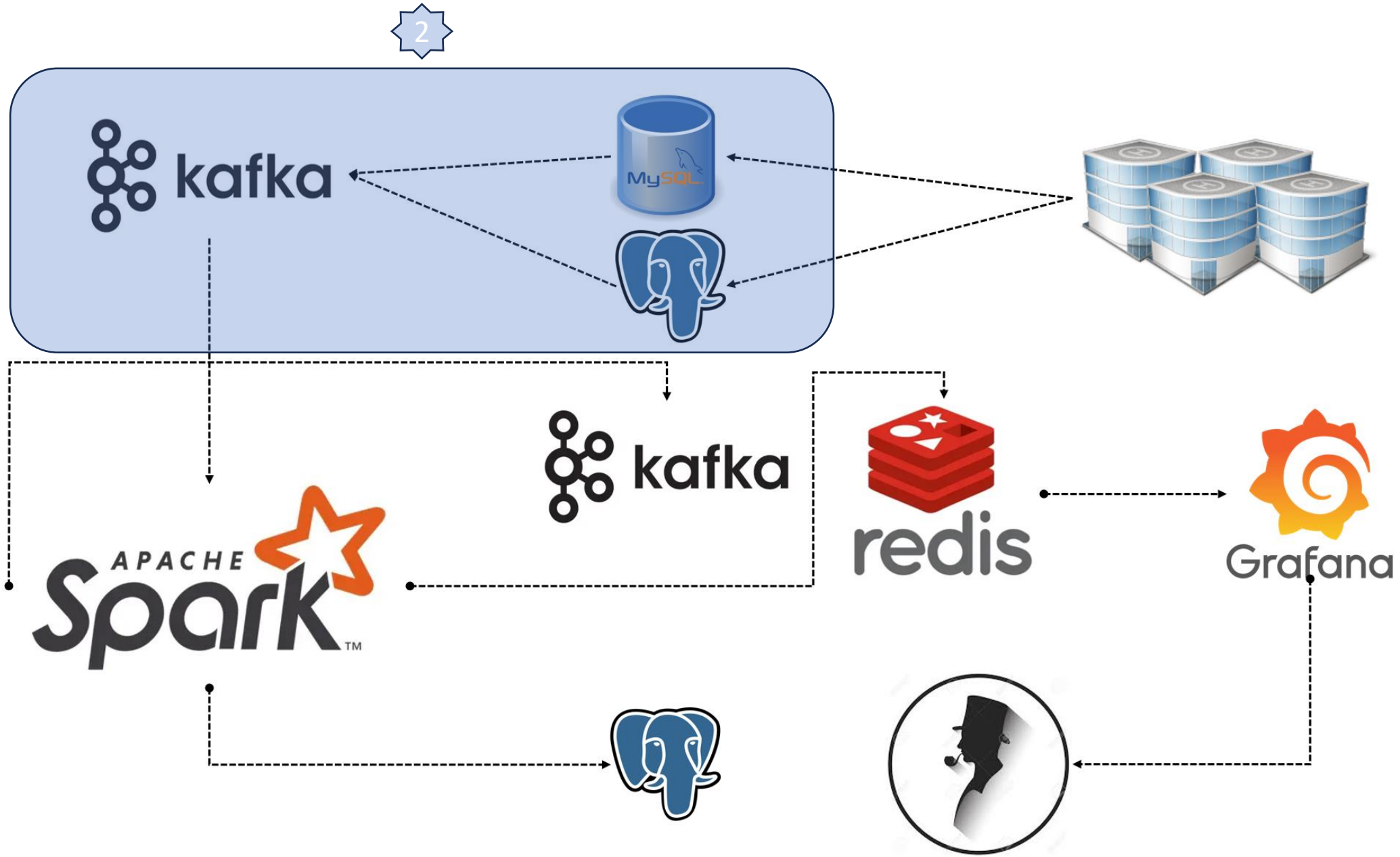
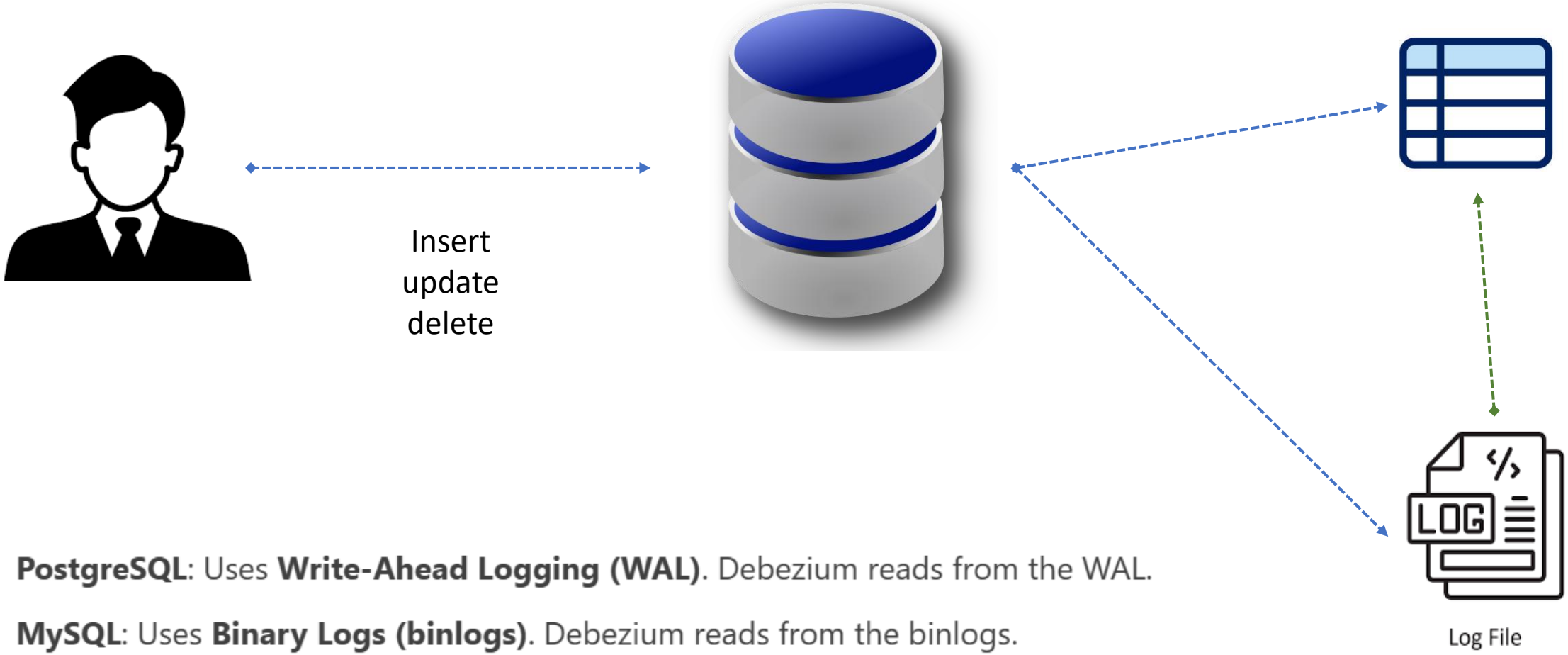

kafka
MySQL
kafka
redis
Grafana
APACHE
Spark™


1
kafka
MySQL
kafka
redis
Grafana
APACHE
Spark™


1
kafka
MySQL
kafka
redis
Grafana
APACHE
Spark

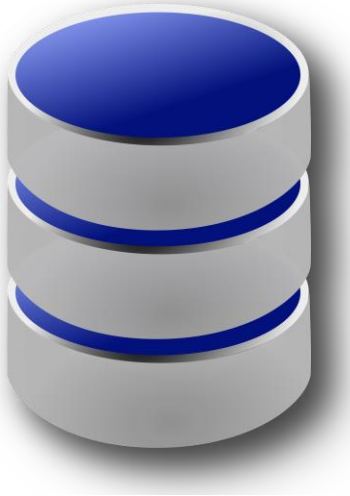

2
kafka
MySQL
kafka
redis
Grafana
APACHE
Spark™

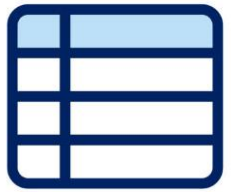
CDC or Change Data Capture with Debezium



- **PostgreSQL**: Uses **Write-Ahead Logging (WAL)**. Debezium reads from the WAL.
- **MySQL**: Uses **Binary Logs (binlogs)**. Debezium reads from the binlogs.
- **SQL Server**: Uses **Transaction Logs**. Debezium reads from these logs.
- **Oracle**: Uses **Redo Logs**. Debezium reads from the redo logs.

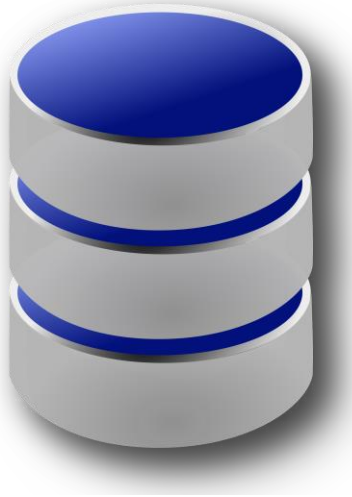
Insert
update
delete

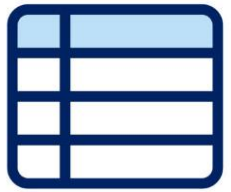




Log File

Insert
update
delete



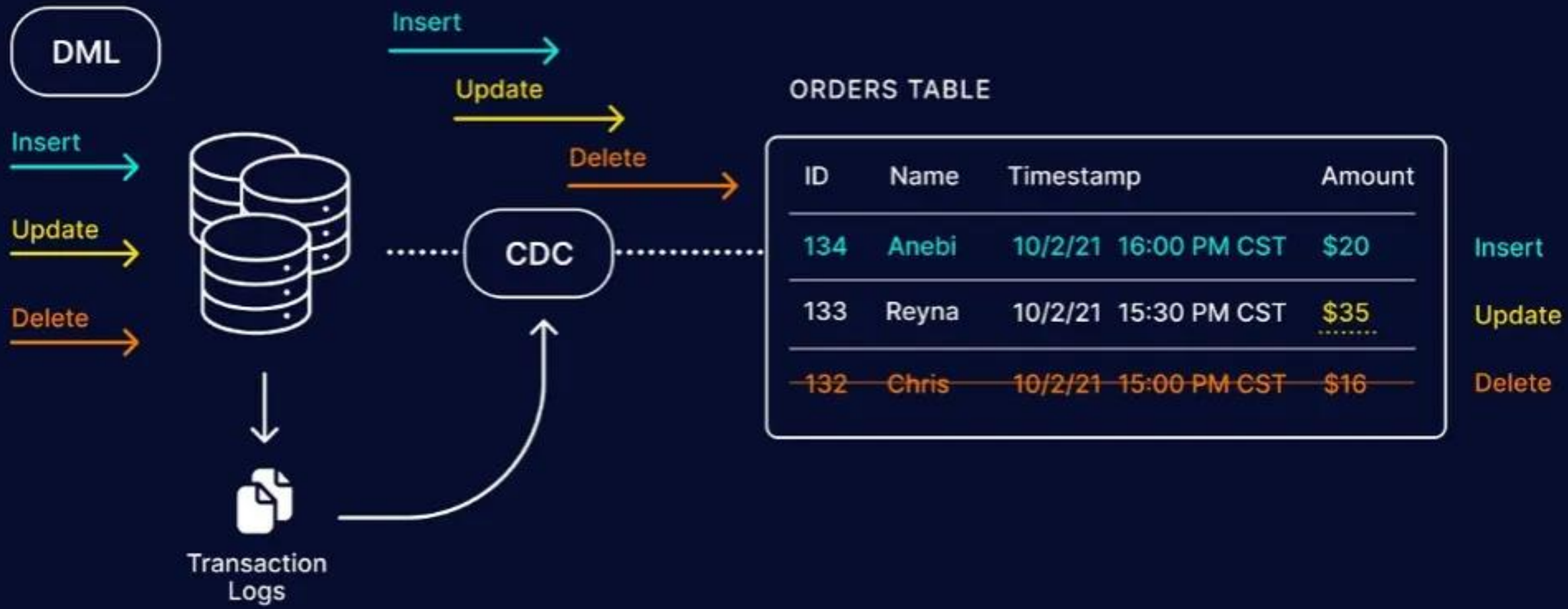


Log File

Debezium only captures committed records
and send them to Kafka!

debezium

kafka


DML
Insert
Update
Delete
Insert
Update
Delete
CDC
Transaction Logs
ORDERS TABLE
ID
Name
Timestamp
Amount
134
Anebi
10/2/21
16:00 PM CST
$20
Insert
133
Reyna
10/2/21
15:30 PM CST
$35
Update
132
Chris
10/2/21
15:00 PM CST
$16
Delete

Now let’s go to built this part and enjoy 😎