# Kafka-connect-lab

Database Sink

Sftp Sink

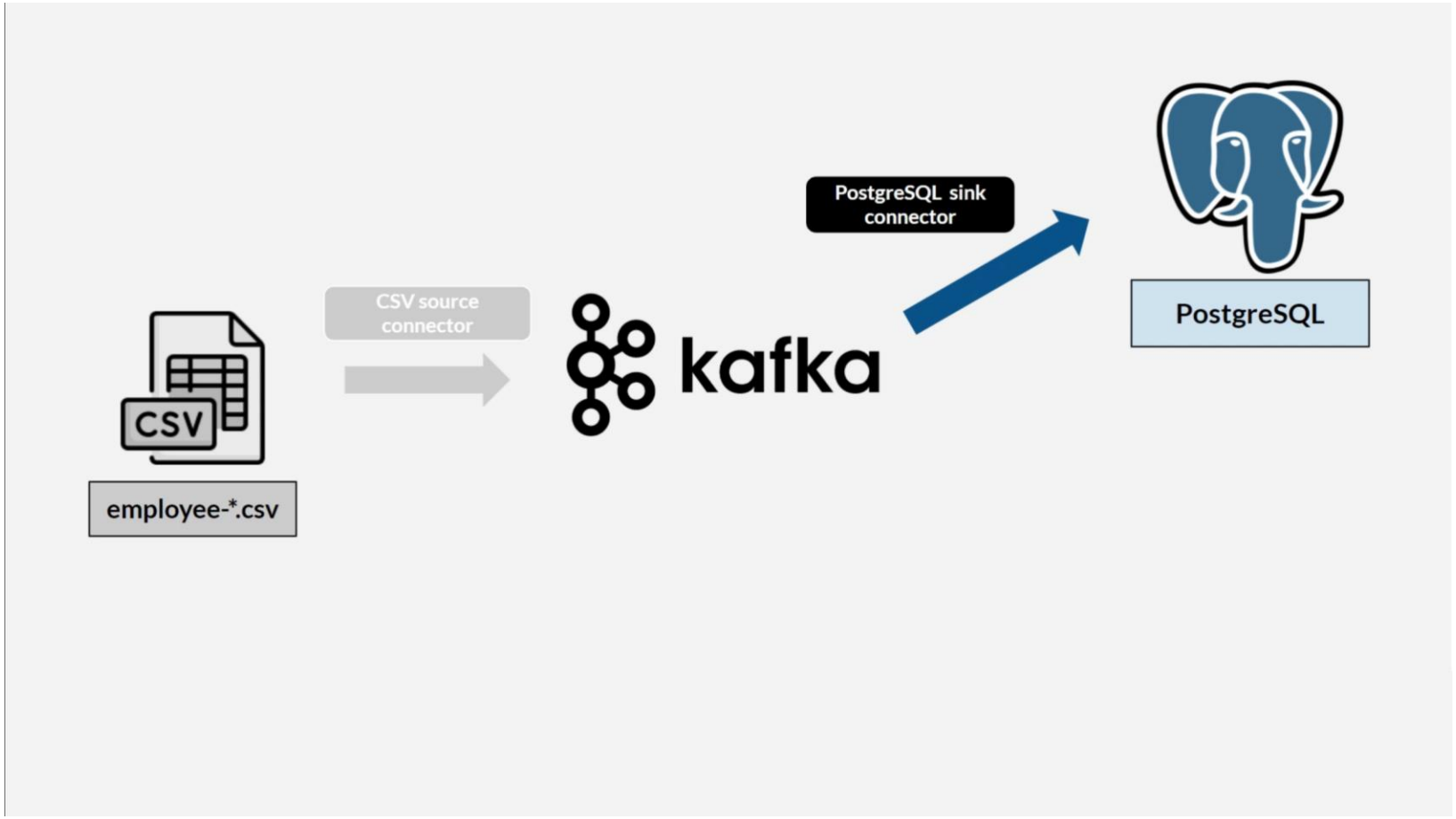
# Start lab

- docker-compose -f docker-compose-core.yml -p sample down (remove existing containers running on same port)

- **Start Kafka connect containers:**
- docker-compose -f docker-compose-connect.yml -p connect up -d
- docker-compose -f docker-compose-connect-sample.yml -p connect-sample up -d

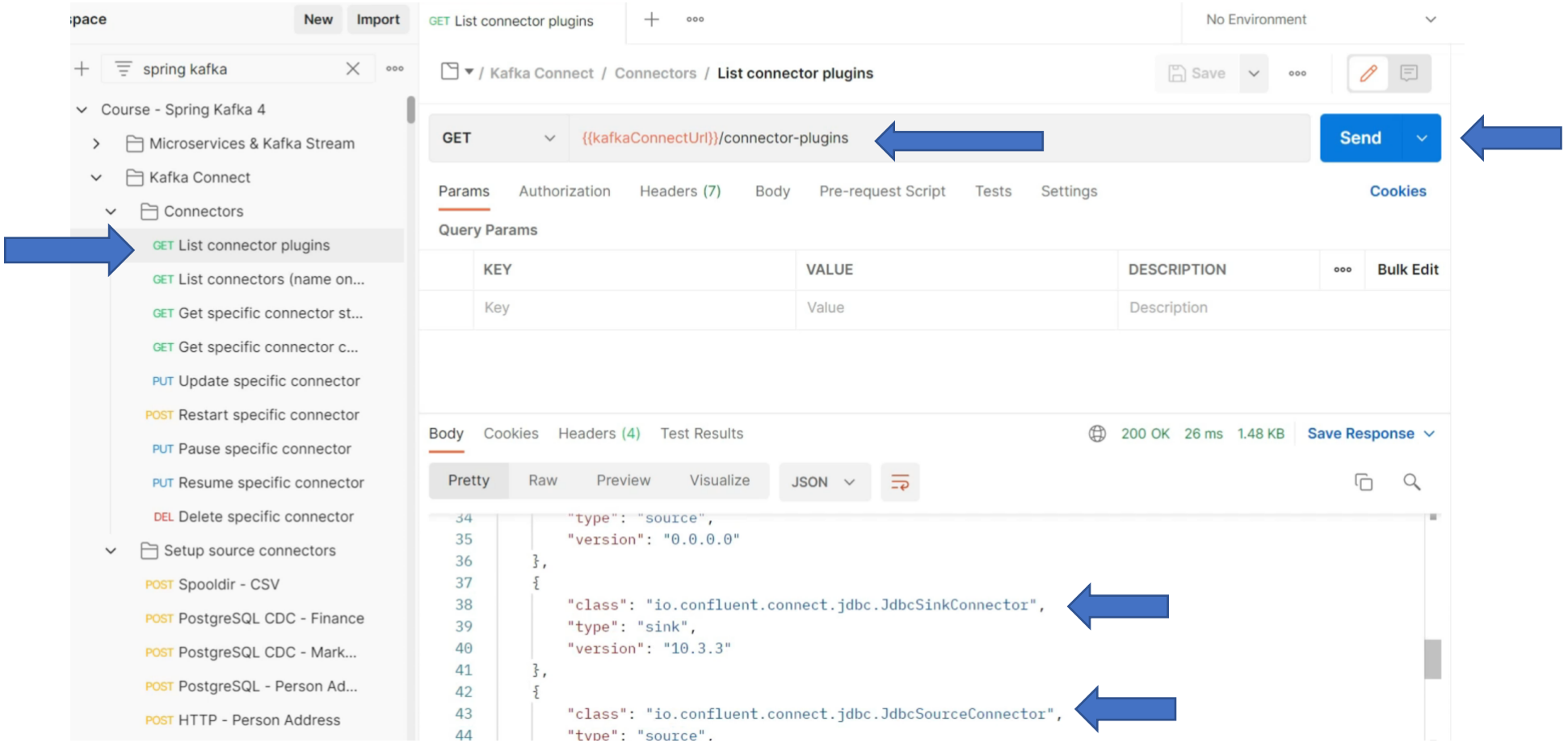
# Database Sink

Use existing topic for csv(discussed in the session)



- Download Connector
  - https://www.confluent.io/hub/confluentinc/kafka-connect-jdbc
- Place into connectors folder
  - “data\kafka-connect-data\connectors”
- Restart kafka-connect container
  - docker-compose -f docker-compose-connect.yml -p connect restart kafka-connect

# Check from postman



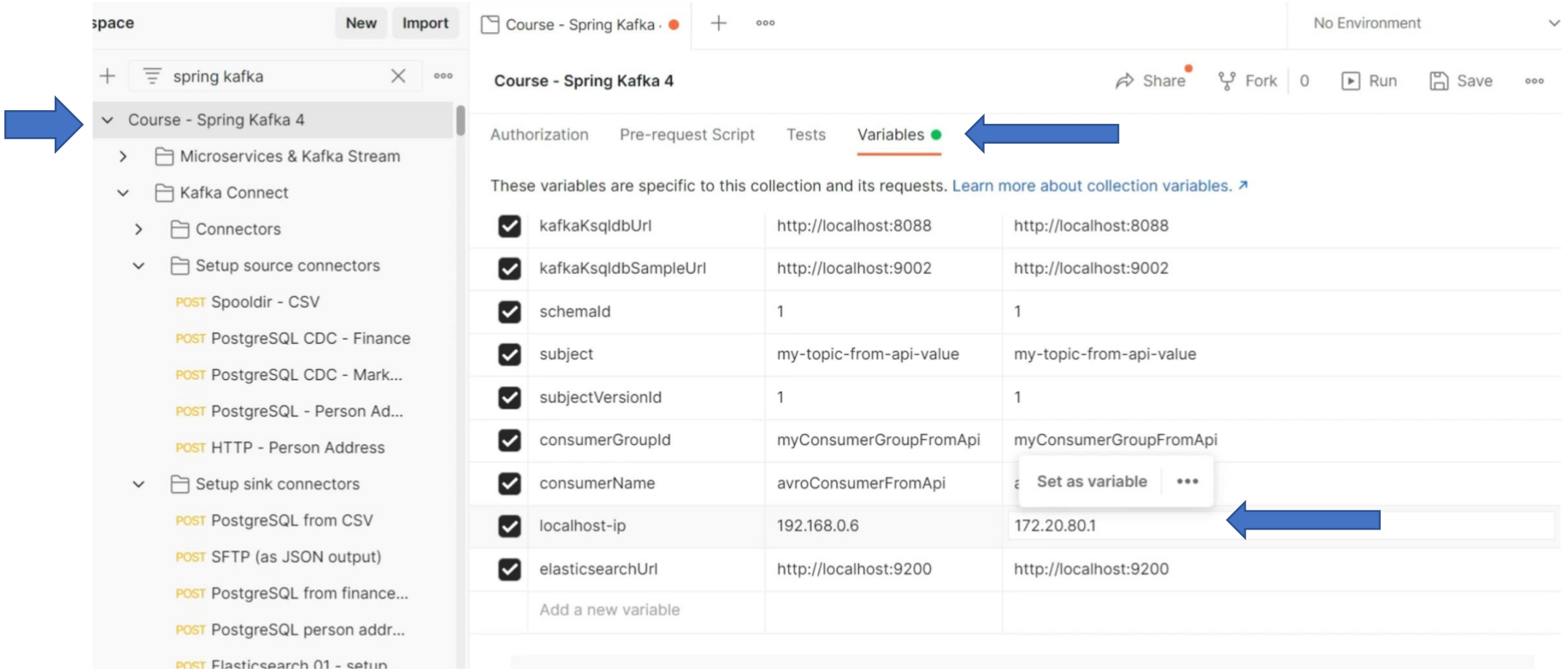
# JDBC Sink Connector Configuration Properties

- https://docs.confluent.io/kafka-connect-jdbc/current/sink-connector/sink_config_options.html

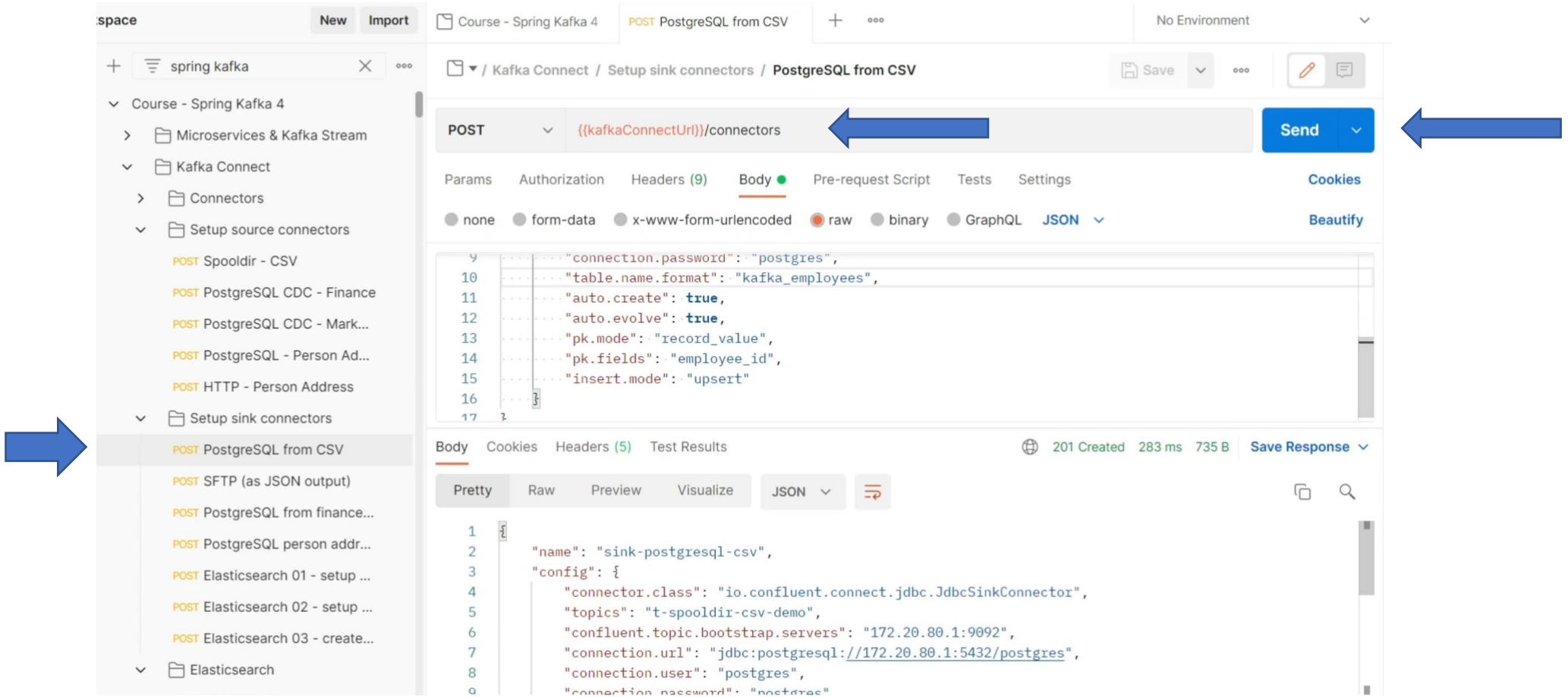
# Get ip from local system

```
C:\Users\bvsra>ipconfig

Windows IP Configuration


Ethernet adapter vEthernet (WSL):

   Connection-specific DNS Suffix  . :
   Link-local IPv6 Address . . . . . : fe
   IPv4 Address. . . . . . . . . . . : 172
   Subnet Mask . . . . . . . . . . . : 255.255.240.0
   Default Gateway . . . . . . . . . :
```

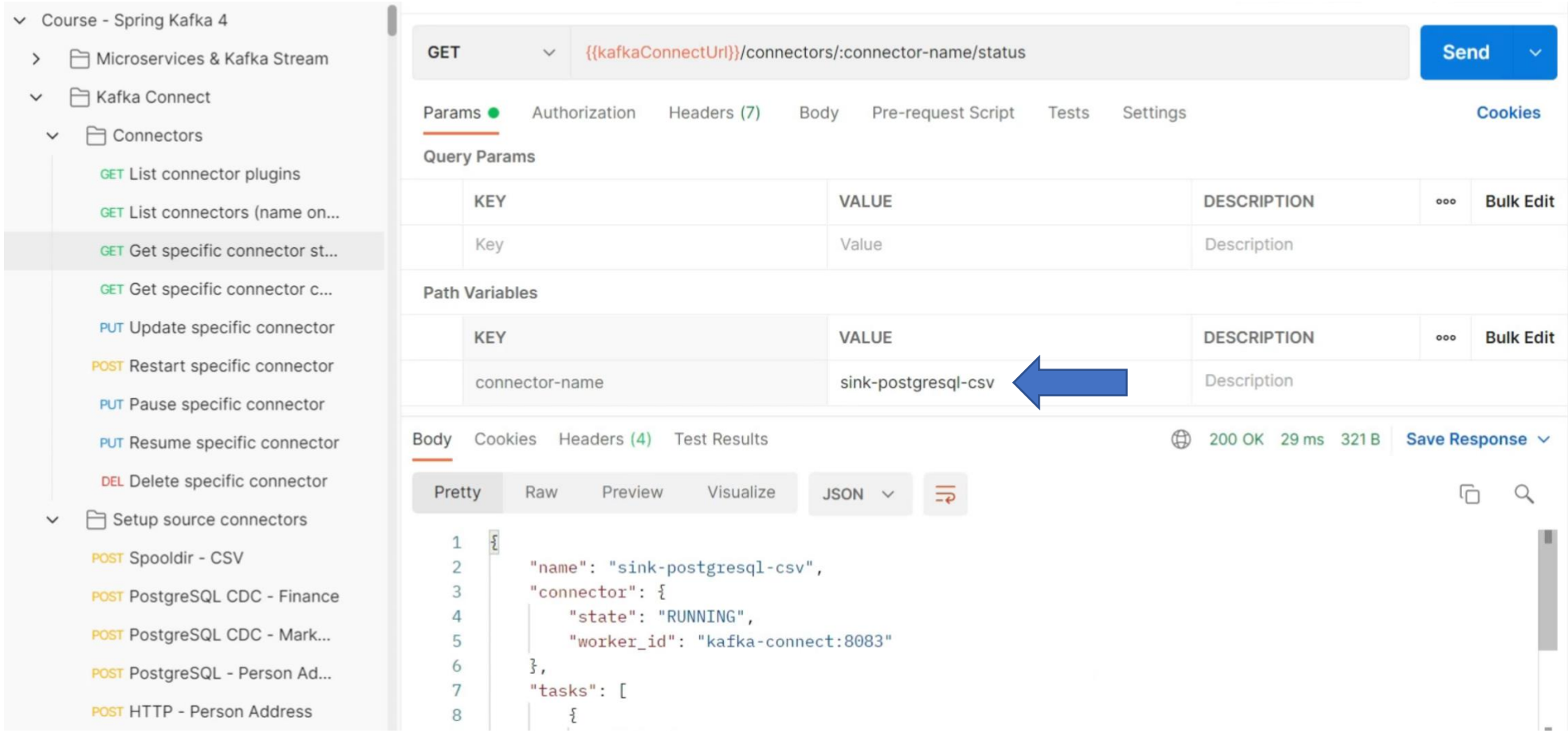
# Update localhost ip in postman variables



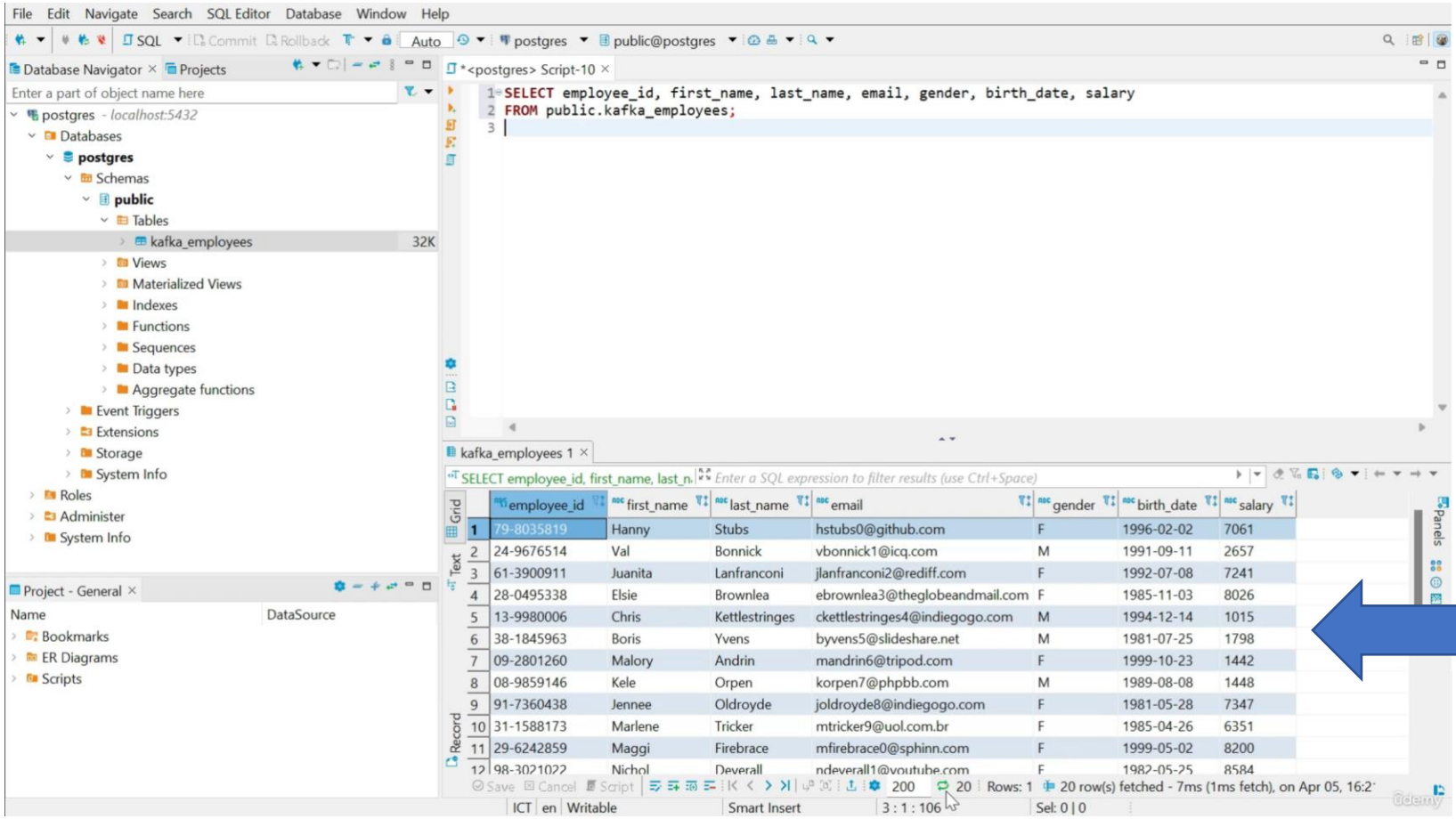
# Create db sink connector



# Check Status for specific conector



# Connect to “postgres sql” from workbench or any other specific ide

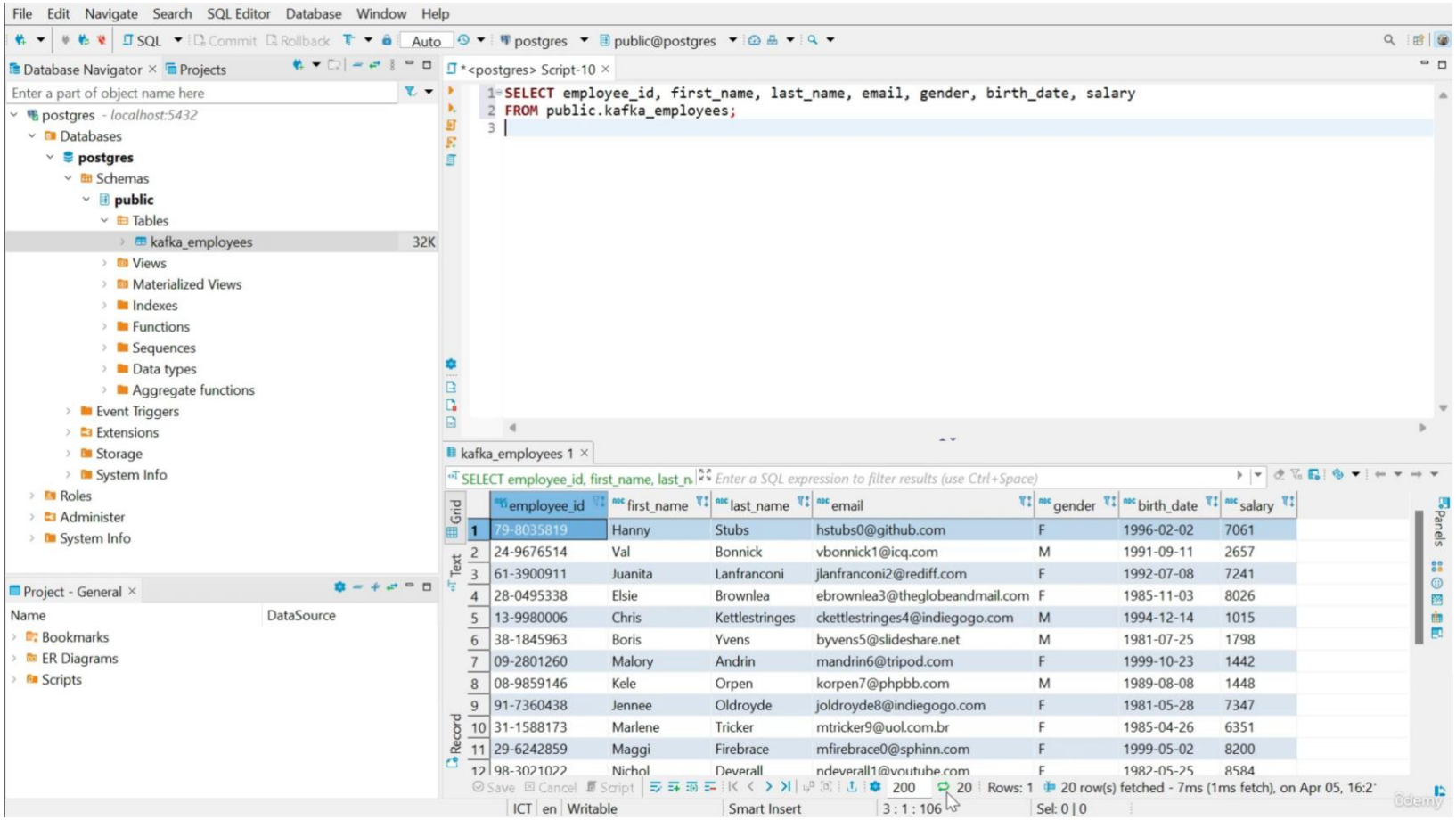



These entries already exist in my db. You will have no records by default

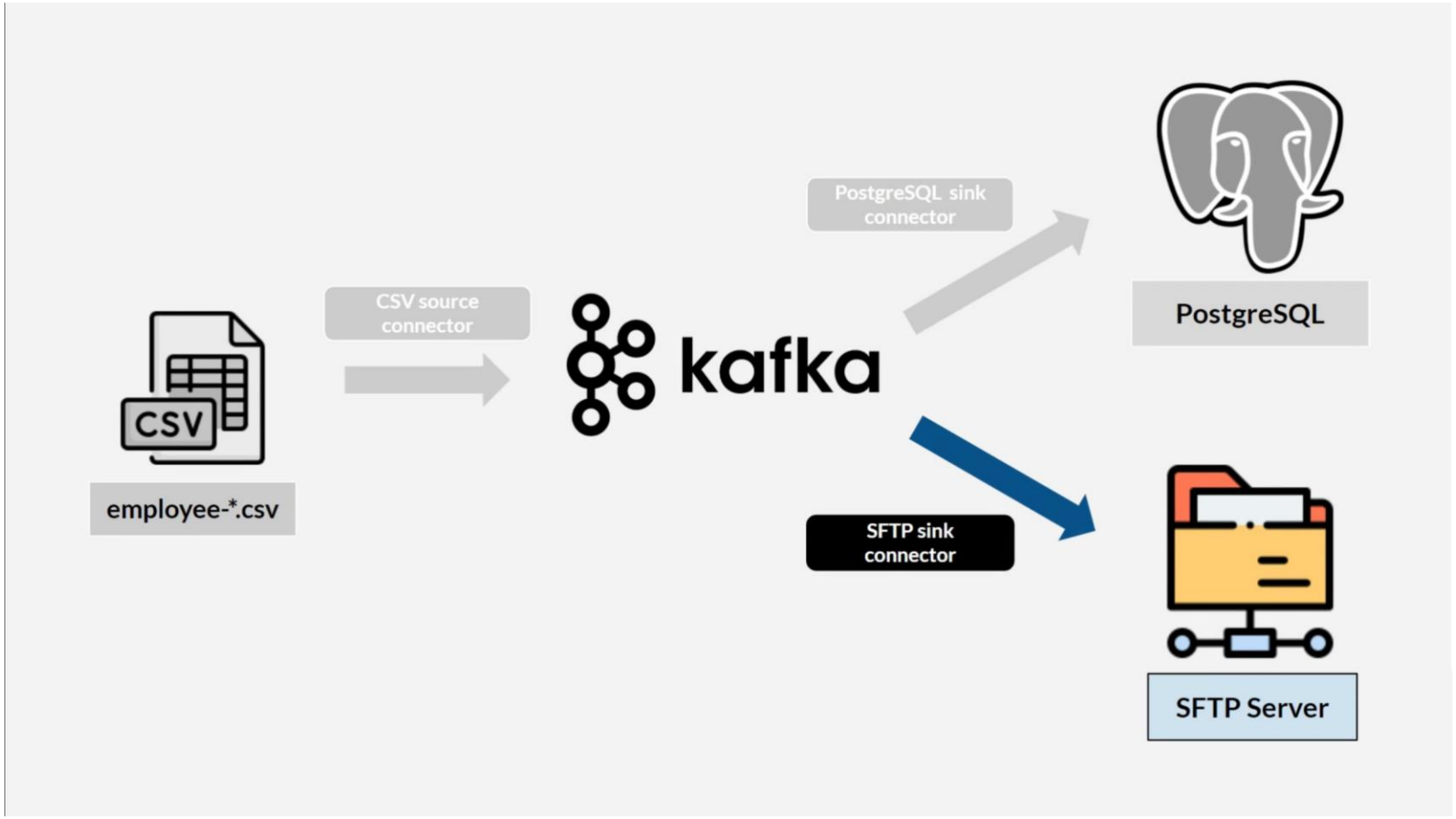
- Add sample csv file into inputs directory (find files inside kafka-connect-samples folder)
  - *data\kafka-connect-data\inputs*
  - employee-sample-3.csv
  - employee-sample-4.csv
- After 10 seconds check in db

# Run the query and check in db

(you can now find new records in the db. Check by adding more sample csv files)

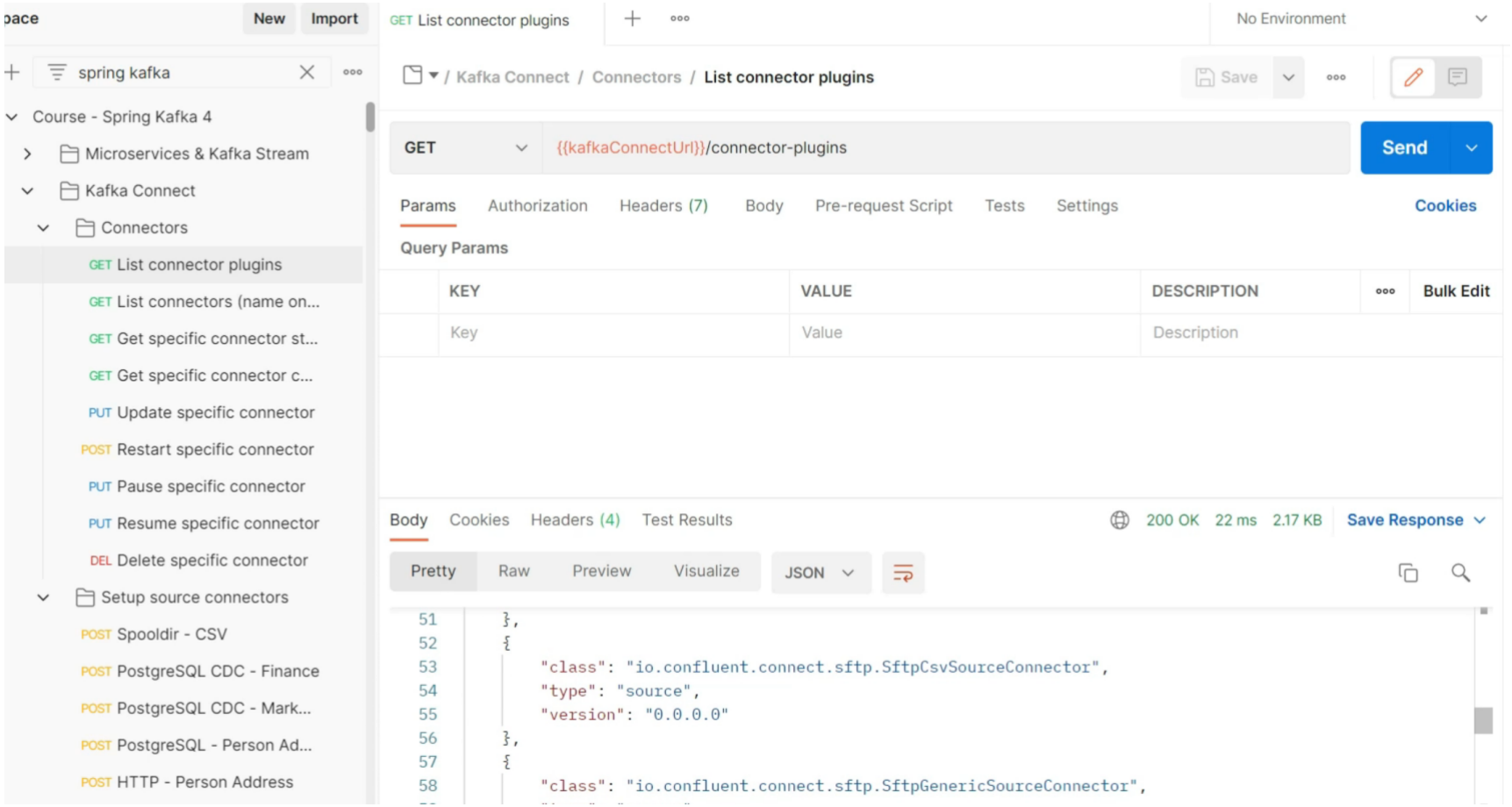


# SFTP Sink


CSV
employee-*.csv
CSV source connector
kafka
PostgreSQL sink connector
PostgreSQL
SFTP sink connector
SFTP Server

- Download SFTP Sink Connector
  - https://www.confluent.io/hub/confluentinc/kafka-connect-sftp
- Place into connectors folder
  - “data\kafka-connect-data\connectors”
- Restart kafka-connect container
  - docker-compose -f docker-compose-connect.yml -p connect restart kafka-connect

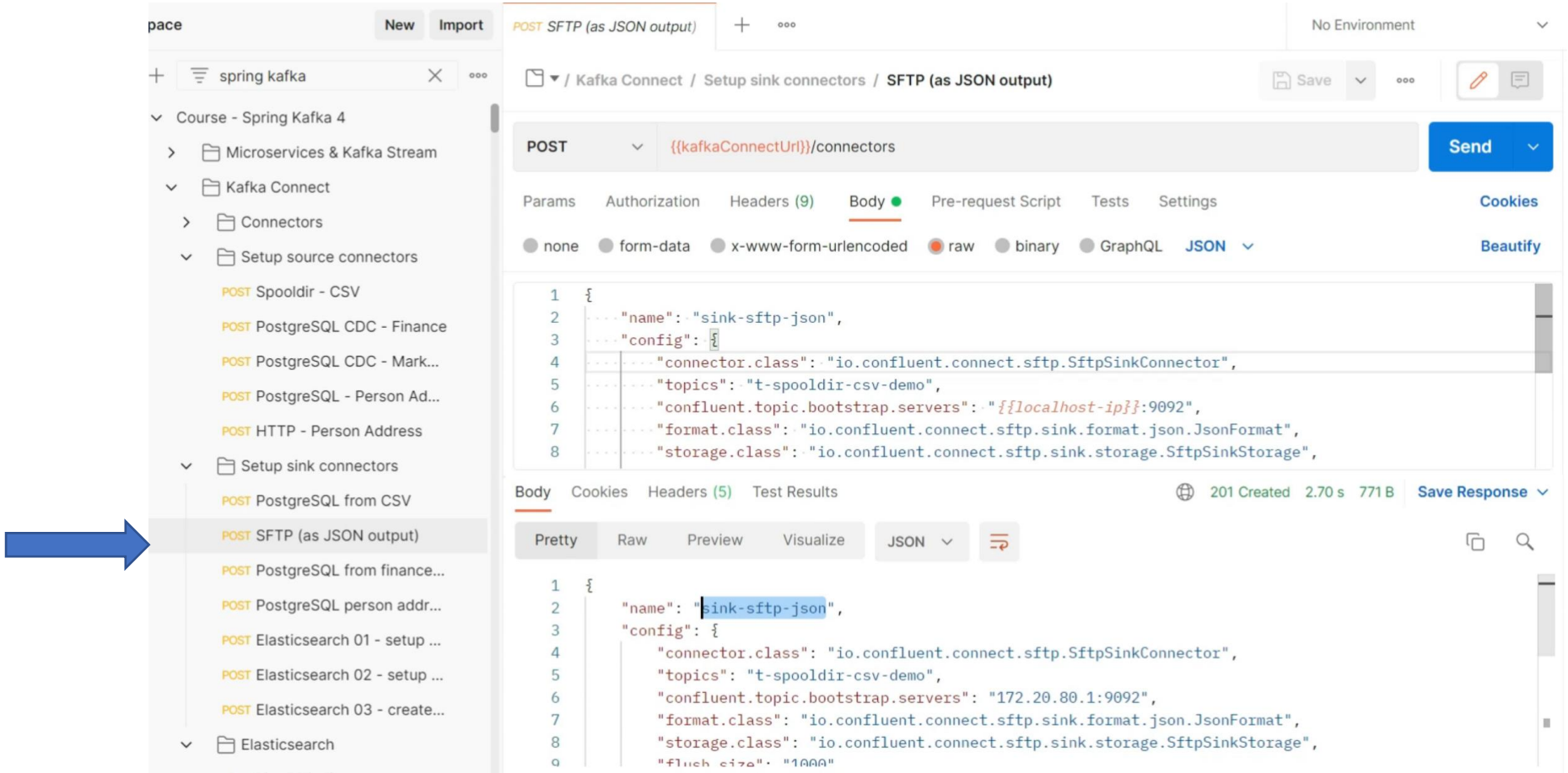
# Verify connectors from postman



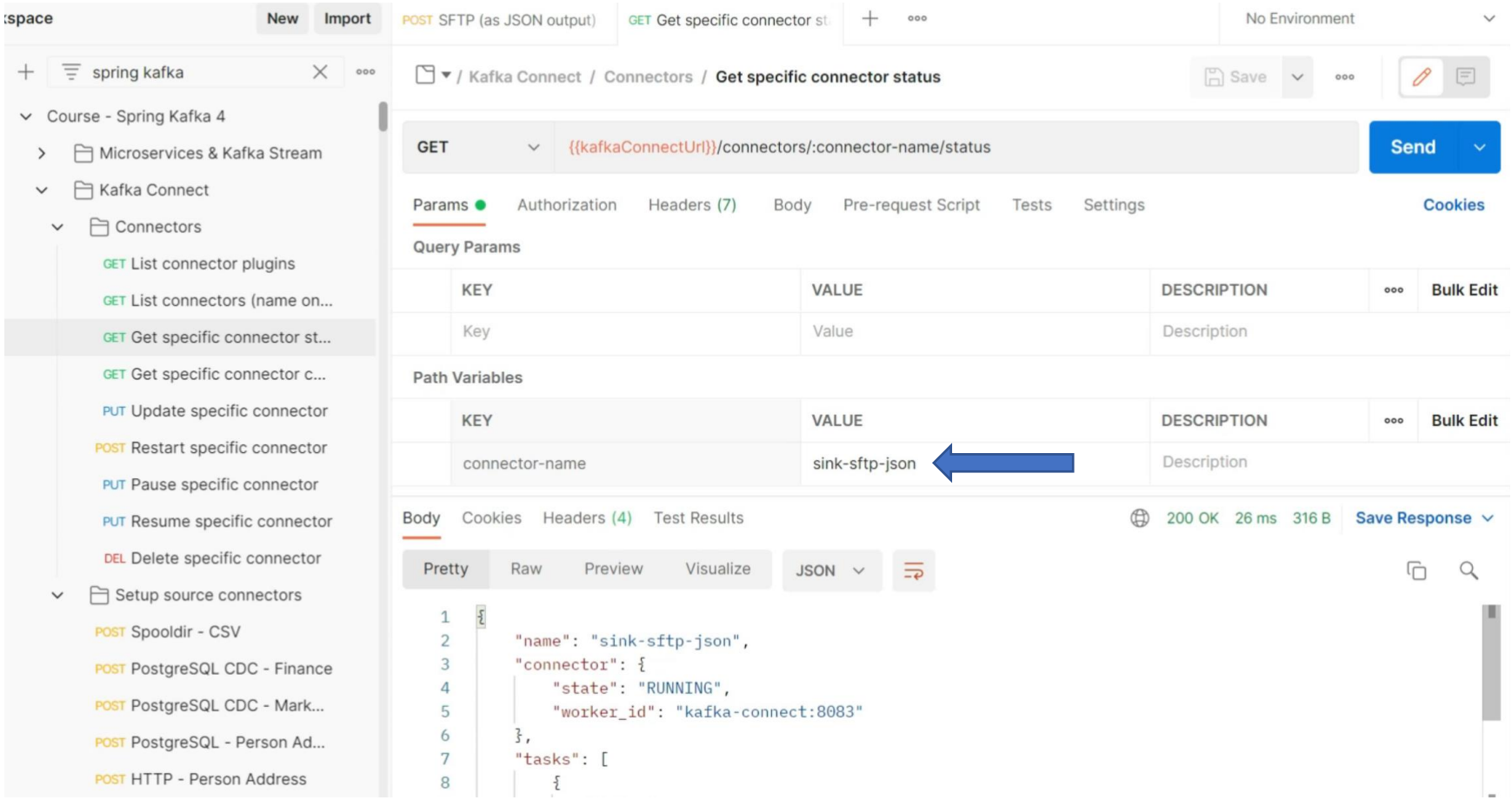
# SFTP Sink Connector Configuration Properties

- https://docs.confluent.io/kafka-connect-sftp/current/sink-connector/configuration_options.html

# Create sftp sink connector

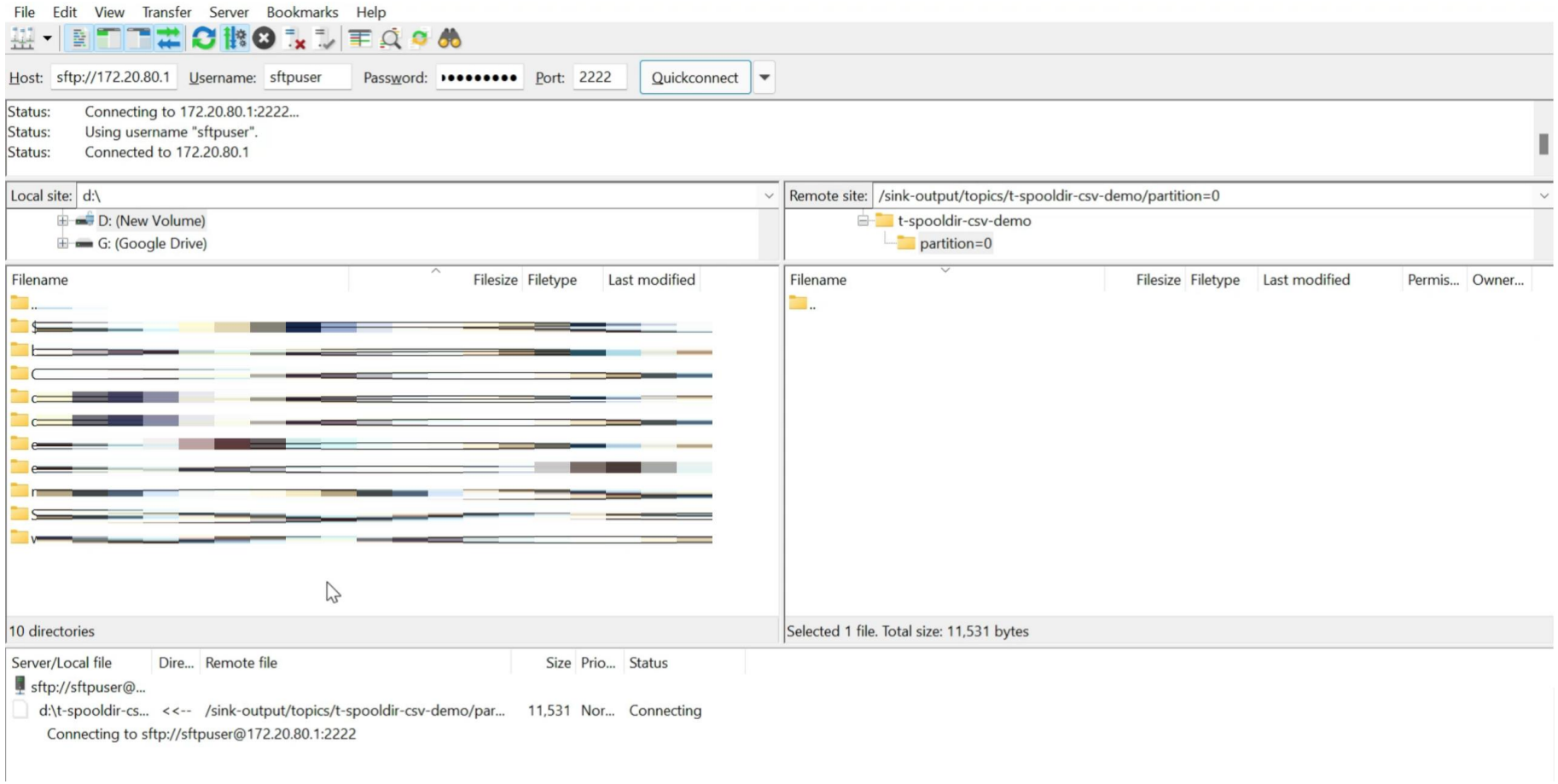


# Check Status



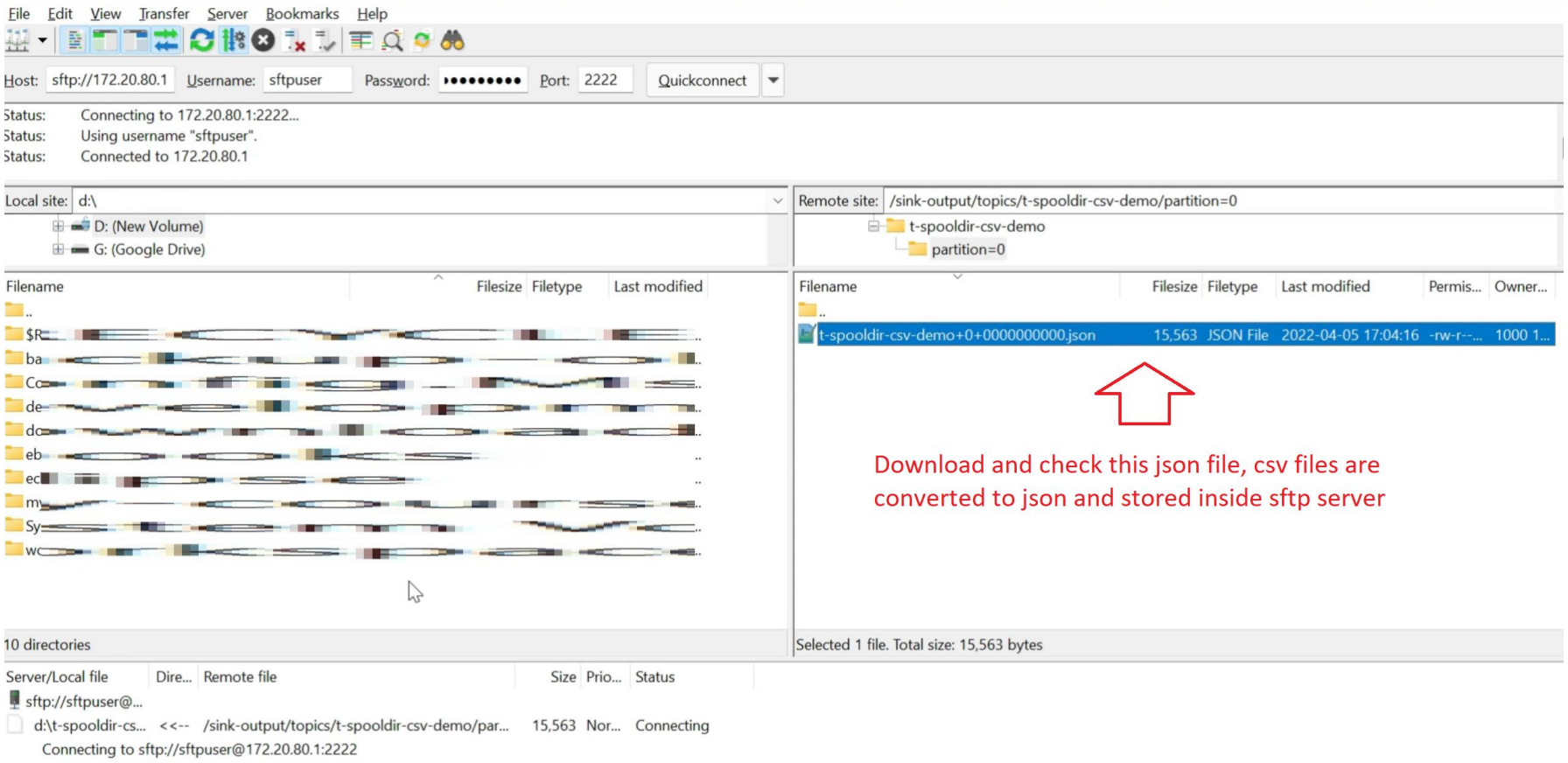
# Use any sftp connector

(username and password find from the properties set in postman while creating sftp connector)



- Add sample csv file into inputs directory (find files inside kafka-connect-samples folder)
  - *data\kafka-connect-data\inputs*
  - employee-sample-7.csv
  - employee-sample-8.csv
- After 10 seconds check in db

# Verify data generated



# References


- https://docs.confluent.io/platform/current/connect/userguide.html
- https://developer.confluent.io/learn-kafka/kafka-connect/intro/?_ga=2.55576299.1562784863.1655844784-892683210.1655397866&_gac=1.259964536.1655848660.Cj0KCQjw2MWVBhCQARIsAIjbwoMz0SyR61XgsR9Y7jnJ32-QDMlsVhp7wEgcApYklKjcpFo2Lh0RmiIaAt-IEALw_wcB