

## Postgres\_fdw (Foreign Data Wrapper) and dblink

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Following instruction describes how to set up postgres\_fdw (Foreign Data Wrapper) and dblink between two database in gradient instance:

Open superadmin (postgres) connection to ktp database

```
CREATE EXTENSION postgres_fdw;
CREATE EXTENSION dblink;
CREATE FOREIGN DATA WRAPPER to_destination_fdw VALIDATOR postgresql_fdw_validator;
-- where 'research' is target database
CREATE SERVER destination_server FOREIGN DATA WRAPPER to_destination_fdw OPTIONS (hostaddr
    '127.0.0.1', port '5432', dbname 'research');
--where '*' is password for 'ktp' account
CREATE USER MAPPING FOR ktp SERVER destination_server OPTIONS (user 'ktp', password '*');
GRANT USAGE ON FOREIGN SERVER destination_server TO ktp;
```

Open superadmin (postgres) connection to research database

```
CREATE EXTENSION postgres_fdw;
-- where 'ktp' is source database
CREATE SERVER source_server FOREIGN DATA WRAPPER postgres_fdw OPTIONS (hostaddr '127.0.0.1', port
    '5432', dbname 'ktp');
-- where '*' is password for 'ktp' account
CREATE USER MAPPING FOR ktp SERVER source_server OPTIONS (user 'ktp', password '*');
GRANT USAGE ON FOREIGN SERVER source_server TO ktp;
```

Verify that connection works between databases:

Open normal (ktp) connection to ktp database:

```
SELECT dblink_connect('connection', 'destination_server');
SELECT dblink_send_query('connection', 'CREATE SCHEMA IF NOT EXISTS tutkimus_1');
SELECT dblink_disconnect('connection');
SELECT dblink_connect('connection', 'destination_server');
SELECT dblink_send_query('connection', 'IMPORT FOREIGN SCHEMA func LIMIT TO (mv_table_info) FROM
    SERVER source_server INTO tutkimus_1');
SELECT dblink_disconnect('connection');
SELECT dblink_connect('connection', 'destination_server');
SELECT dblink_send_query('connection', 'CREATE TABLE tutkimus_1.mv_table_info_transferred as
    (select * from tutkimus_1.mv_table_info)');
SELECT dblink_disconnect('connection');
```