

Import Database and Media Dump

This article is structured for an export from EMS, but may also be applicable in other circumstances.

For support on Synapse or matrix-media-repo, ask in the Matrix rooms `#synapse:matrix.org` and `#mediarepo:t2bot.io`

Prerequisites

You need these items to complete the import. If you are migrating from EMS, EMS support will provide all five to you

- Database dump
- Media export
- GPG decryption password
- Pepper
- Synapse signing key

Import process

1. Following official documentation, install and configure
 1. PostgreSQL
 2. Synapse
 3. matrix-media-repo
2. When generating your Synapse configuration file, you MUST use the same domain as your EMS server.
3. Do not start Synapse yet.
4. In the Synapse config file (usually `homeserver.yaml`), set:
 1. pepper to the value received. If you do not to this you have to reset all passwords.
 2. Signing key. This is stored in a file. See this config file option for path. Alternatively, add the old key to `old_signing_keys`.

5. Download the database and media exports provided.
6. Decrypt and extract the exports

```
gpg --no-symkey-cache --output postgres-export.sql.gz --decrypt postgres-export.sql.gz.gpg
gpg --no-symkey-cache --output export-part-1.tgz --decrypt export-part-1.tgz.gpg
gzip --decompress postgres-export.sql.gz
tar zxvf export-part-1.tgz
```

7. Import the database dump

1. If your Synapse database is not empty, empty it

WARNING - THIS WILL IMMEDIATELY AND IRRECOVERABLY DELETE DATA. WE TAKE NO RESPONSIBILITY IF YOU DELETE THE WRONG DATABASE OR THE WRONG DATA

Connect to the database with `psql`, then run the following queries:

```
DO $$ DECLARE
r RECORD;
BEGIN
    FOR r IN (SELECT tablename FROM pg_tables WHERE schemaname =
current_schema()) LOOP
        EXECUTE 'DROP TABLE ' || quote_ident(r.tablename) || ' CASCADE';
    END LOOP;
END $$;

DROP sequence cache_invalidation_stream_seq;
DROP sequence state_group_id_seq;
DROP sequence user_id_seq;
```

2. Disconnect from the database, then import the database dump

```
psql --username=USERNAME --host=HOSTNAME DATABASE_NAME < postgres-export.sql
```

3. Verify that sequence was set correctly. Connect to the database and run the query

```
SELECT * FROM state_group_id_seq;
```

`last_value` should be greater than 1

8. Import media according to documentation here.
9. Start Synapse.
10. Optionally, install Element Web or use another Matrix client.

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