

Database Section

Configuration options for how ESS can communicate with your PostgreSQL database.

Config:



This section of the ESS installer GUI will only be present if you are using the Kubernetes deployment option or you have opted to use your own PostgreSQL for a Standalone deployment.

If you have not yet set up your PostgreSQL, you should ensure you have done so before proceeding, see the relevant PostgreSQL section from the [Requirements and Recommendations](#) page:

- [Standalone Deployment PostgreSQL Prerequisites](#)
- [Kubernetes Deployment PostgreSQL Prerequisites](#)

All settings configured via the UI in this section will be saved to your `deployment.yml`, with the contents of secrets being saved to `secrets.yml`. You will find specific configuration examples in each section.

Config Example

- `deployment.yml`

```
spec:
```

```
components:
```

```
synapse:
```

```
config:
```

```
postgresql:
```

- `secrets.yml`

```
apiVersion: v1
```

```
kind: Secret
```

```
metadata:
```

```
name: synapse

namespace: element-onprem

data:

postgresPassword: https://ems-docs.element.io/books/element-server-suite-classic-
documentation-lts-2504
```

By default, if you do not change any settings on this page, defaults will be added to your configuration file/s (see example below).

Config Example

<https://ems-docs.element.io/books/element-server-suite-classic-documentation-lts-2504>

spec:

components:

synapse:

config:

postgresql:

database: synapse

host: db.example.com

passwordSecretKey: postgresPassword

user: test-username

<https://ems-docs.element.io/books/element-server-suite-classic-documentation-lts-2504>

PostgreSQL

Database

Database * _____

synapse

PostgreSQL database name

Config Example

```
spec:  
  
components:  
  
    synapse:  
  
        config:  
  
            postgresql:  
  
                database: synapse
```

Enter the name of the PostgreSQL Database you configured per the previously mentioned [Requirements and Recommendations](#) to use for Synapse.

Host

Host * _____

db.example.com

PostgreSQL database host

Config Example

```
spec:  
  
components:  
  
synapse:  
  
config:  
  
postgresql:  
  
host: db.example.com  
https://ems-docs.element.io/books/element-server-suite-classic-documentation-lts-2504
```

Enter the fully qualified domain name of the PostgreSQL Database you configured per the previously mentioned [Requirements and Recommendations](#) to use for Synapse.

Port

Port

Default

Config Example

```
spec:  
  
components:  
  
synapse:  
  
config:  
  
postgresql:
```

```
# port not present when left as default 5432
```

```
port: 5432
```

Defaults to `5432`, either keep if correct or provide the required port of the PostgreSQL Database you configured per the previously mentioned [Requirements and Recommendations](#) to use for Synapse.

SSL Mode

SSL Mode

Require

Default ▾

TLS settings to use for the PostgreSQL connection

Config Example

```
spec:
```

```
components:
```

```
synapse:
```

```
config:
```

```
postgresql:
```

```
# sslMode not present when left as default `require`
```

```
sslMode: require
```

```
# sslMode: disable
```

```
# sslMode: allow
```

```
# sslMode: prefer  
  
# sslMode: verify-ca  
  
# sslMode: verify-full
```

Defaults to `Require` - it is not recommended to disable SSL, so for most setups, this setting should be left as default.

You should adjust to accommodate your environment as required, the options available are:

- Disable
- Allow
- Prefer
- Require
- Verify CA
- Verify Full

User

User *

test-username

PostgreSQL username

Config Example

spec:

components:

synapse:

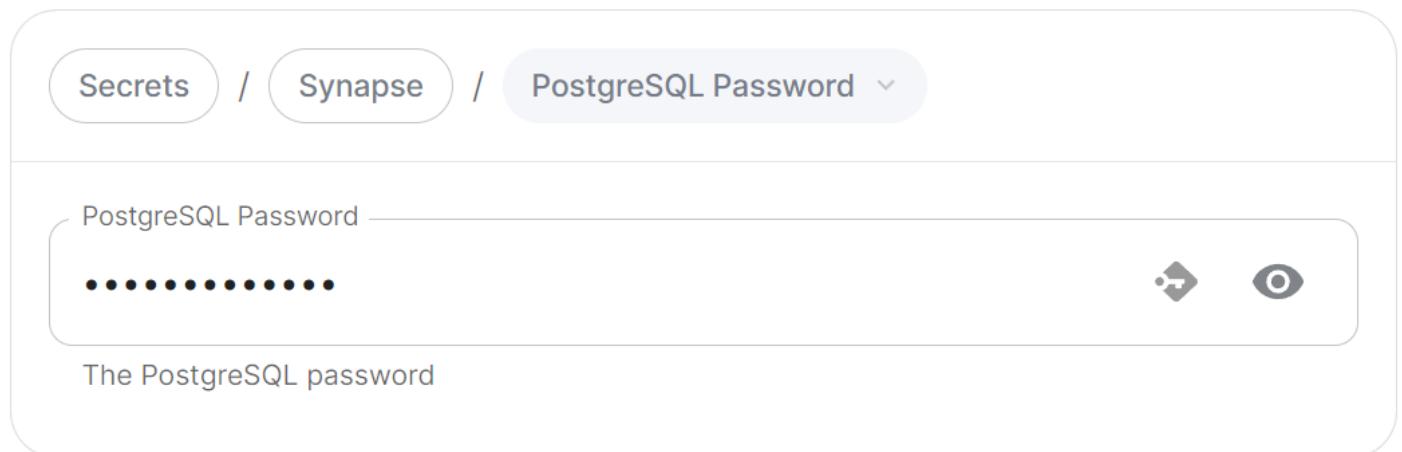
config:

postgresql:

user: test-username

Enter the username of a user who can access the PostgreSQL Database you configured per the previously mentioned [Requirements and Recommendations](#) to use for Synapse.

PostgreSQL Password



The screenshot shows a password input field with the placeholder "PostgreSQL Password". Below the input field, the text "The PostgreSQL password" is displayed. To the right of the input field are two icons: a clipboard icon with a plus sign and a copy icon.

PostgreSQL Password

••••••••••••••

The PostgreSQL password

Config Example

- `secrets.yml`

```
apiVersion: v1

kind: Secret

metadata:

name: synapse

namespace: element-onprem

data:

postgresPassword: dGVzdC1wYXNzd29yZA==
```

Enter the password for the specified user who can access the PostgreSQL Database you configured per the previously mentioned [Requirements and Recommendations](#) to use for Synapse.

Advanced

Connection Pool

Max / Min Connections

Max Connections

10

Default

The maximum number of connections in the pool.

Min Connections

5

Default

The minimum number of connections in the pool.

Config Example

```
spec:
```

```
components:
```

```
synapse:
```

```
config:
```

```
postgresql:
```

```
# connectionPool not present when left as default
```

```
connectionPool:
```

maxConnections: 10

minConnections: 5

In most deployments you should not need to configure these settings, however if required, you can adjust both the minimum and maximum connections in the Synapse connection pool.

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