

# Configuring Synapse

See how to download example files from the helm chart [here](#).

## Configuration

For a quick setup using the default settings, see the minimal fragment example in `charts/matrix-stack/ci/fragments/synapse-minimal.yaml`.

## Configuring a postgresql database

If you want to use [an external postgresql](#), see the following fragments examples:

- `charts/matrix-stack/ci/fragments/synapse-postgres.yaml`
- `charts/matrix-stack/ci/fragments/synapse-postgres-secrets-in-helm.yaml` or `charts/matrix-stack/ci/fragments/synapse-postgres-secrets-externally.yaml`

## Credentials

Credentials are generated if possible. Alternatively they can either be provided inline in the values with `value` or if you have an existing `Secret` in the cluster in the same namespace you can use `secret` and `secretKey` to reference it.

If you don't want the chart to generate the secret, please refer to the following values fragments examples to see the secrets to configure.

Synapse requires `registrationSharedSecret`, `signingKey` and `macaroon` secrets:

- `charts/matrix-stack/ci/fragments/synapse-secrets-in-helm.yaml`
- `charts/matrix-stack/ci/fragments/synapse-secrets-externally.yaml`

If you are configuring [S3 storage](#), see the following values fragments examples to see the secrets to configure:

- `charts/matrix-stack/ci/fragments/synapse-s3-secrets-in-helm.yaml`
- `charts/matrix-stack/ci/fragments/synapse-s3-secrets-externally.yaml`

### Additional configuration

Additional Synapse configuration can be provided inline in the values as a string with

```
synapse:
  additional:
    ## Either reference config to inject by:
    1-custom-config:
      config: |
        admin_contact: "mailto:admin@example.com"
    ## Either reference an existing `Secret` by:
    2-custom-config:
      configSecret: custom-synapse-config
      configSecretKey: shared.yaml
```

# Workers

The following Synapse workers are disabled by default and can be enabled on a per-worker basis :

- appservice
- background
- client-reader
- encryption
- event-creator
- event-persister
- federation-sender
- initial-synchrotron
- media-repository
- presence-writer
- pusher
- receipts-account
- sliding-sync
- sso-login
- synchrotron
- typing-persister
- user-dir

Synapse workers can be configured in the values with:

```
synapse:
  workers:
    <worker name>:
      enabled: true
```

Each worker comes with a different options (static replicas, horizontal scaling, resources, etc). These options can be seen under `synapse.workers.<name>` section of `helm show values` for this chart.

The following Synapse pro workers are enabled by default :

- `federation-reader`

They can be disabled in the values with :

```
synapse:
  workers:
    <worker name>:
      enabled: false
```

Full details on available configuration options can be found at [https://element-hq.github.io/synapse/latest/usage/configuration/config\\_documentation.html](https://element-hq.github.io/synapse/latest/usage/configuration/config_documentation.html)

## Disabling Synapse

Synapse is enabled for deployment by default can be disabled with the following values

```
synapse:
  enabled: false
```

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