

Advanced

Advanced setup

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Values documentation

The Helm chart values documentation is available in:

- The GitHub repository [values files](#).
- The chart [README](#).
- [Artifacthub.io](#).

Configuration samples are available [in the GitHub repository](#).

Using a dedicated PostgreSQL database

The stack can need up to 3 databases:

- For Synapse <https://element-hq.github.io/synapse/latest/postgres.html>
- For MAS <https://element-hq.github.io/matrix-authentication-service/setup/database.html>
- For GroupSync

To configure your own PostgreSQL Database in your installation, copy the file `charts/matrix-stack/ci/fragments/quick-setup-postgresql.yaml` to `postgresql.yaml` in your ESS configuration values directory and configure it accordingly.

For Group Sync, merge the file `charts/matrix-stack/ci/fragments/group-sync-test-postgres.yaml` together with `charts/matrix-stack/ci/fragments/group-sync-test-postgres-secrets-in-helm.yaml` in the `postgresql.yaml` of your ESS configuration values.

Configuring the storage path when using K3s

K3s by default deploys the storage in `/var/lib/rancher/k3s/storage/`. If you want to change the path, you will have to run the K3s setup with the parameter `--default-local-storage-path <your path>`.

Monitoring

The chart provides `ServiceMonitor` automatically to monitor the metrics exposed by ESS Pro.

If your cluster has Prometheus Operator or Victoria Metrics Operator installed, the metrics will automatically be scraped.

Configuration

ESS Pro allows you to easily configure its individual components. You basically have to create a values file for each component in which you specify your custom configuration. Below you find sections for each component.

If you have created new values files for custom configuration, make sure to apply them by passing them with the helm upgrade command (see Setting up the stack).

Configuring Element Web

Element Web configuration is written in JSON. The documentation can be found in the Element Web repository.

To configure Element Web, create a values file with the JSON config to inject as a string under “additional”:

```
elementWeb:
  additional:
    user-config.json: |
      {
        "some": "settings"
      }
```

Configuring Synapse

Synapse configuration is written in YAML. The documentation can be found [here](#).

```
synapse:
  additional:
    user-config.yaml:
      config: |
        # Add your settings below, taking care of the spacing indentation
        some: settings
```

Configuring Matrix Authentication Service

Matrix Authentication Service configuration is written in YAML. The MAS documentation can be found [here](#).

See [this document](#) for additional ESS MAS documentation.

```
matrixAuthenticationService:
  additional:
    user-config.yaml:
      config: |
        # Add your settings below, taking care of the spacing indentation
        some: settings
```

Configuring GroupSync

GroupSync configuration is written in YAML. The documentation can be found [here](#).

```
groupSync:
  additional:
    user-config.yaml:
      config: |
        # Add your settings below, taking care of the spacing indentation
        some: settings
```

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