

# Authentication Section

A detailed look at Delegated Authentication options available and setup examples.

In the Authentication section you will find options to configure settings specific to Authentication. Regardless of if you are using the Matrix Authentication Server, or have enabled Legacy Auth, the settings page will remain the same.

However please note, MAS does not support delegated authentication with SAML or GroupSync - if you enable either of these you will need to return to the Host section and enable [Legacy Auth](#).

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

## Config Example

- `deployment.yml`

```
metadata:
```

```
annotations:
```

```
  ui.element.io/layer: |
```

```
  components:
```

```
    synapse:
```

```
spec:
```

```
  components:
```

```
    synapse:
```

```
config:
```

```
  delegatedAuth:
```

- secrets.yml

```
kind: Secret
```

```
metadata:
```

```
  name: synapse
```

```
  namespace: element-onprem
```

```
data:
```

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

- deployment.yml

```
metadata:
```

```
  annotations:
```

```
    ui.element.io/layer: |
```

```
  components:
```

```
spec:
```

```
synapse:
```

```
  config:
```

```
    delegatedAuth:
```

```
      localPasswordDatabase:
```

```
        enableRegistration: false # Note, if you deploy without any  
authentication methods enabled, the installer will default to Local Accounts.
```

- secrets.yml

```
apiVersion: v1
```

```
kind: Secret
```

```
metadata:
```

```
data:
```

```
  ldapBindPassword: examplePassword
```

## User Profiles

# User Profiles

## User profiles permissions

Allow Avatar Change

Allow users to change their avatars themselves

Default

Allow Display Name Change

Allow users to change their display names themselves

Default

Allow Email Change

Allow users to change their emails themselves

Default

## Config Example

```
spec:  
  
  components:  
  
    synapse:  
  
      config:  
  
        delegatedAuth:  
  
          userProfiles:  
  
            allowAvatarChange: true # Not present if left as default  
  
            allowDisplayNameChange: true # Not present if left as default
```

```
allowEmailChange: true # Not present if left as default
```

The User Profiles section provides some self-explanatory config options to adjust what changes users are allowed to make to their User Profile, such as changing their Display Name. You may wish to restrict this if you'd prefer to delegate the setting of these values to the associated Identity Provider.


## OIDC

You can add and configure one, or multiple, OIDC providers - to do so you will need to click the [Add OIDC](#) / [Add more OIDC](#) button found after toggling on the ODIC section:

### OIDC

The list of OIDC Providers

[Add OIDC](#)



Once an OIDC provider is added, you can remove any providers by clicking the rubbish bin icon found to the left of the provider.

### Config Example

```
spec:  
  
  components:  
  
    synapse:  
  
      config:  
  
        delegatedAuth:
```

oidc:

-

## IdP Name

IdP Name \*

The display name of the Identity Provider (IDP).

### Config Example

```
spec:  
  
  components:  
  
    synapse:  
  
      config:  
  
        delegatedAuth:  
  
          oidc:  
  
            idpName: example_name # Required
```

## IdP ID

IdP ID \*

01JEB56FGVQTA4T27VAR0WDSW1

Edited

The unique identifier for the Identity Provider (IDP).

## Config Example

```
spec:  
  
  components:  
  
    synapse:  
  
      config:  
  
        delegatedAuth:  
  
          oidc:  
  
            idpId: 01JDS2WKNYTS21GFAKM9AKD9R # Required
```

## IdP Brand

IdP Brand

An optional styling hint for clients.

## Config Example

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

```
delegatedAuth:
```

```
  oidc:
```

```
    idpBrand: example_brand
```

## Issuer

Issuer \*

The URL of the IDP issuer.

### Config Example

```
spec:
```

```
  components:
```

```
    synapse:
```

```
      config:
```

```
        delegatedAuth:
```

```
          oidc:
```

```
            issuer: https://issuer.example.com/ # Required
```

## Client Auth Method

#### Client Auth Method

Client Secret Basic

Default ▲

Client Secret Post

Client Secret Basic

None

#### Config Example

```
spec:  
  
  components:  
  
    synapse:  
  
      config:  
  
        delegatedAuth:  
  
          oidc:  
  
            clientAuthMethod: client_secret_basic # If no `clientAuthMethod` defined,  
will default to `client_secret_basic`  
  
            # clientAuthMethod: client_secret_post  
  
            # clientAuthMethod: none
```

## Client ID

Client ID \*

The client identifier assigned by the IDP.

## Config Example

```
spec:  
  
  components:  
  
    synapse:  
  
      config:  
  
        delegatedAuth:  
  
          oidc:  
  
            clientId: example_client_id
```

## Client Secret

Secrets

/

Synapse

/

OIDC Client Secret



Client Secret



The client secret assigned by the IDP.

## Config Example

- deployment.yml

```
spec:
```

```
components:
```

```
  synapse:
```

```
    config:
```

```
      delegatedAuth:
```

```
        oidc:
```

```
          clientSecretSecretKey: oidcClientSecret
```

- secrets.yml

```
apiVersion: v1
```

```
kind: Secret
```

```
metadata:
```

```
  name: synapse
```

```
  namespace: element-onprem
```

```
data:
```

```
  oidcClientSecret: U2VjdXJlT01EQ0NsaWVudFNlY3JldA==
```

## Allow Existing Users

Allow Existing Users

Whether to allow existing users or not. This option does nothing if Matrix Authentication Service is deployed.







## Config Example

```
spec:  
  
  components:  
  
    synapse:  
  
      config:  
  
        delegatedAuth:  
  
          oidc:
```

## Scopes

### Scopes

A list of scopes requested during the authorization process.

-  Standard scopes include openid, profile, email. 
-  Standard scopes include openid, profile, email. 
-  Standard scopes include openid, profile, email. 

[Add more Scopes](#)

## Config Example

```
spec:  
  
  components:  
  
    synapse:  
  
      config:  
  
        delegatedAuth:  
  
          oidc:  
  
            scopes:  
  
              - openid  
  
              - profile  
  
              - email
```

## User Mapping Provider

### Config Example

```
spec:  
  
  components:  
  
    synapse:
```

config:

delegatedAuth:

oidc:

userMappingProvider:

## Subject Template

### Subject Template



The claim used to identify the subject of the ID token.

Subject Template \*

|



The claim used to identify the subject of the ID token.

### Config Example

spec:

components:

synapse:

config:

delegatedAuth:

oidc:

```
userMappingProvider:
```

```
  subjectTemplate: '{{ user.subject }}'
```

## Localpart Template

### Localpart Template



The template used to generate the local part of the user's Matrix ID.

Localpart Template \*

```
{{ user.preferred_username }}
```

Edited

The template used to generate the local part of the user's Matrix ID.

### Config Example

```
spec:
```

```
  components:
```

```
    synapse:
```

```
      config:
```

```
        delegatedAuth:
```

```
          oidc:
```

```
            userMappingProvider:
```

```
              localpartTemplate: '{{ user.preferred_username }}'
```

If using legacy auth, you should use jinja python to format your template; if using MAS, you should use jinja rust formatting instead. For example, to get the a valid localpart from an email, you would use `{{ user.preferred_username.split('@')[0] }}` if using Legacy Auth, or `{{ (user.preferred_username | split('@'))[0] }}` if using MAS.

## Display Name Template

### Display Name Template

The template used to generate the user's display name in Matrix.

Display Name Template \*

`{{ user.name }}`

Edited

The template used to generate the user's display name in Matrix.

### Config Example

```
spec:
  components:
    synapse:
      config:
        delegatedAuth:
          oidc:
            userMappingProvider:
              displayNameTemplate: '{{ user.name }}'
```

## Email Template

### Email Template



The template used to generate the user's email address in Matrix.

Email Template \*

{{ user.email }}

Edited

The template used to generate the user's email address in Matrix.

### Config Example

```
spec:  
  
  components:  
  
    synapse:  
  
      config:  
  
        delegatedAuth:  
  
          oidc:  
  
            userMappingProvider:  
  
              emailTemplate: '{{ user.email }}'
```

## Endpoints Discovery

## Auto Discovery

## Endpoints Discovery

Use OpenID Connect Discovery to discover the server configuration. The endpoint `<openid issuer>/.well-known/openid-configuration` needs to be reachable for automatic discovery to work.

Manual  Auto

Skip Verification

Set to 'true' to skip metadata verification. Use this if you are connecting to a provider that is not OpenID Connect compliant. Defaults to false. Avoid this in production.

Default

### Config Example

```
spec:
  components:
    synapse:
      config:
        delegatedAuth:
          oidc:
            - clientId: synapsekieranml
              clientSecretSecretKey: oidcClientSecret
          endpointsDiscovery:
```

```
    skipVerification: false

    idpId: 01JDS2WKNYTQS21GFAKM9AKD9R

    idpName: Keycloak

    issuer: https://keycloak.ems-support.element.dev/realms/matrix

    scopes:

      - openid

      - profile

      - email

    userMappingProvider:

      displayNameTemplate: '{{ user.name }}'

      emailTemplate: '{{ user.email }}'
```

## Skip Verification

### Config Example

```
spec:

  components:

    synapse:

      config:
```

```
delegatedAuth:

  oidc:

    - clientId: synapsekieranml

      clientSecretSecretKey: oidcClientSecret

      endpointsDiscovery:

        skipVerification: false

      idpId: 01JDS2WKNYTQS21GFAKM9AKD9R

      idpName: Keycloak

      issuer: https://keycloak.ems-support.element.dev/realms/matrix

      scopes:

        - openid

        - profile

        - email

      userMappingProvider:

        displayNameTemplate: '{{ user.name }}'

        emailTemplate: '{{ user.email }}'
```

## Backchannel Logout Enabled

The Matrix Authentication Service does not support configuring Backchannel Logout. You can only configure Backchannel logout if you have enabled [Legacy Auth](#) from the [Host Section](#).

## Backchannel Logout Enabled

An optional flag to enable/disable backchannel logout support.

### Config Example

```
spec:
  components:
    synapse:
      config:
        delegatedAuth:
          oidc:
            - clientId: synapsekieranml
              clientSecretSecretKey: oidcClientSecret
              endpointsDiscovery:
                skipVerification: false
              idpId: 01JDS2WKNYTQS21GFAKM9AKD9R
              idpName: Keycloak
              issuer: https://keycloak.ems-support.element.dev/realms/matrix
              scopes:
                - openid
```

```
- profile

- email

userMappingProvider:

  displayNameTemplate: '{{ user.name }}'

  emailTemplate: '{{ user.email }}'
```

## SAML

The Matrix Authentication Service does not support SAML and it is recommended to switch to OIDC. You can only enable SAML authentication if you have enabled [Legacy Auth](#) from the [Host Section](#).

## LDAP

## Local Accounts

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Revision #4  
Created 2025-06-04 09:18:09 UTC by Kieran Mitchell Lane  
Updated 2025-06-04 09:53:06 UTC by Kieran Mitchell Lane