

# Media Section

Configuration options relating to how Media uploaded to your homeserver is handled by ESS.

Config: ☐

The Media section allows you to customise where media uploaded to your homeserver should be stored and the maximum upload size. By default this is to a Persistent Volume Claim (PVC) however you can also configure options for using S3.

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`

```
metadata:
  annotations:
    ui.element.io/layer: |
      components:
        synapse:
          config:
            media:
spec:
  components:
    synapse:
      config:
        media:
```

- `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

```
spec:
  components:
    synapse:
      config:
        media:
          maxUploadSize: 100M
          volume:
            size: 50Gi
```

## Config

### Media

- ☒ Persistent Volume Claim for Storage
- ☐ S3 for Long Term Storage and Ephemeral Storage for the Short Term
- ☐ S3 for Long Term Storage and Persistent Volume Claim for the Short Term

#### Config Example

```
```yaml spec: components: synapse: config: media: volume: # Present if you select either Persistent Volume Claim option size: 50Gi ```
```

Selecting either Persistent Volume Claim configuration option will default to using a 50Gi volume for media.

### S3

Bucket \*

example\_bucket\_name

Edited

The bucket name



Prefix \*

example\_prefix

Edited

Prefix within the bucket to use for storing/fetching media

Storage Class \*

STANDARD

Default

The object storage class used when uploading files to the bucket.

### Config Example

```
spec:
  components:
    synapse:
      config:
        media:
          s3:
            bucket: example_bucket_name
            prefix: example_prefix
            storageClass: STANDARD # Not present if left as default
```

Provide your bucket name and a prefix within the bucket to use. You can also adjust the storage class however it is recommended to leave it as `STANDARD` unless you have a specific requirement to change.

## Authentication

Secrets

/

Synapse

/

Media S3 Storage Access Key ID ▾

Access Key Id

.....



Secrets

/

Synapse

/

Media S3 Storage Secret Key ▾

Secret Access Key

.....



## Config Example

- secrets.yml

```
apiVersion: v1
kind: Secret
metadata:
  name: synapse
  namespace: element-onprem
data:
  mediaS3StorageAccessKeyId: ZXhhbXBsZWJY2Vzc2tleWlk
  mediaS3StorageSecretKey: ZXhhbXBsZXNIY3JldGFjY2Vzc2tleQ==
```

Provide any credentials ( `Access Key ID` and `Secret Access Key` ) required to authenticate access to the specified S3 bucket.

## Region

## Region



The S3 bucket region

Region \*

eu-central-1

Edited

The S3 bucket region

### Config Example

```
spec:
  components:
    synapse:
      config:
        media:
          s3:
            region: eu-central-1 # Not present if disabled
```

Toggle on this section to be able to specify the S3 bucket region you wish to use.

## Endpoint URL



Target a non AWS-S3 Endpoint URL

Endpoint URL \*

https://example-endpoint.url

Target a non AWS-S3 Endpoint URL

### Config Example

```
spec:
  components:
    synapse:
      config:
        media:
          s3:
            endpointUrl: https://example-endpoint.url # Not present if disabled
```

Toggle on this section to be able to specify a non-AWS S3 endpoint URL.

## Local Cleanup

### Local Cleanup



Control cleanup of the local storage and offloading to S3

Frequency

1h

Default

How often the local media cleanup to S3 should run. Supports s, m, h or d suffixes

Threshold

1d

Default

How long since last access should it be before locally cached media is removed and if needed offloaded to S3. Supports s, h, d suffixes

### Config Example

```
spec:
  components:
    synapse:
      config:
        media:
          s3:
            # Not present if disabled
            # localCleanup: {} # If defaults left as-is
          localCleanup:
            frequency: 2h # Only present if changed from default
```

threshold: 2d # Only present if changed from default

Toggle on this section to control the frequency of local storage cleanup and the threshold since media was last accessed before it should be offloaded to S3.

## Max Upload Size

Max Upload Size

100M

Default

The cap on the size of uploaded media. Size in bytes ending in M or K

### Config Example

```
spec:
  components:
    synapse:
      config:
        media:
          maxUploadSize: 100M
```

By default the Max Upload size is `100M`, here you can adjust this value to allow for larger or smaller uploads on your homeserver. The desired file size should be specified in bytes ending with `M` or `K`.

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