

Maintenance

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Upgrading

In order to upgrade your deployment, you should:

1. Read the release notes of the new version and check if there are any breaking changes. The changelog is available on [element matrix-stack chart page](#) on the right panel.
2. Adjust your values if necessary.
3. Re-run the install command. It will upgrade your installation to the latest version of the chart.

Backup & restore

Backup

You need to backup a couple of things to be able to restore your deployment:

1. Stop Synapse and Matrix Authentication Service workloads:

```
kubectl scale sts -l "app.kubernetes.io/component=matrix-server" -n ess --replicas=0
kubectl scale deploy -l "app.kubernetes.io/component=matrix-authentication" -n ess --replicas=0
```

2. The database. You need to backup your database and restore it on a new deployment.
3. If you are using the provided Postgres database, build a dump using the command `kubect exec --namespace ess -it sts/ess-postgres -- pg_dumpall -U postgres > dump.sql`. Adjust to your own kubernetes namespace and release name if required.
4. If you are using your own Postgres database, please build your backup according to your database documentation.
5. Your values files used to deploy the chart
6. The chart will generate some secrets if you do not provide them. To copy them to a local file, you can run the following command: `kubect exec -l "app.kubernetes.io/managed-by=matrix-tools-init-secrets" -n ess -o yaml > secrets.yaml`. Adjust to your own kubernetes namespace if required.
7. The media files: Synapse stores media in a persistent volume that should be backed up. On a default K3s setup, you can find where synapse media is stored on your node using the command `kubect exec pv -n ess -o yaml | grep synapse-media`.
8. Run the `helm upgrade --install...` command again to restore your workload's pods.

Restore

1. Recreate the namespace and the backed-up secret in step 3:

```
kubect exec ns ess
kubect exec apply -f secrets.yaml
```

2. Redeploy the chart using the values backed-up in step 2.
3. Stop Synapse and Matrix Authentication Service workloads:

```
kubect exec scale sts -l "app.kubernetes.io/component=matrix-server" -n ess --replicas=0
kubect exec scale deploy -l "app.kubernetes.io/component=matrix-authentication" -n ess --replicas=0
```

4. Restore the postgres dump. If you are using the provided Postgres database, this can be achieved using the following commands:

```
# Drop newly created databases and roles
kubect exec -n ess sts/ess-postgres -- psql -U postgres -c 'DROP DATABASE matrixauthenticationservice'
kubect exec -n ess sts/ess-postgres -- psql -U postgres -c 'DROP DATABASE synapse'
kubect exec -n ess sts/ess-postgres -- psql -U postgres -c 'DROP ROLE synapse_user'
kubect exec -n ess sts/ess-postgres -- psql -U postgres -c 'DROP ROLE matrixauthenticationservice_user'
kubect exec cp dump.sql ess-postgres-0:/tmp -n ess
kubect exec -n ess sts/ess-postgres -- bash -c "psql -U postgres -d postgres < /tmp/dump.sql"
```

Adjust to your own kubernetes namespace and release name if required.

4. Restore the synapse media files using `kubect exec cp` to copy them in Synapse pod. If you are using K3s, you can find where the new persistent volume has been mounted with `kubect exec pv -n ess -o yaml | grep synapse-media` and copy your files in the destination path.
5. Run the `helm upgrade --install...` command again to restore your workload's pods.

