

# Single Node Installs: Storage and Backup Guidelines

## General storage recommendations for single-node instances

- `/data` is where the standalone deployment installs PostgreSQL data and Element Deployment data. It should be a distinct mount point.
  - Ideally this would have an independent lifecycle from the server itself
  - Ideally this would be easily snapshot-able, either at a filesystem level or with the backing storage

## Adminbot storage:

- Files stored with uid=10006/gid=10006, default config uses `/data/element-deployment/adminbot` for single-node instances
- Storage space required is proportional to the number of user devices on the server. 1GB is sufficient for most servers

## Auditbot storage:

- Files stored with uid=10006/gid=10006, default config uses `/data/element-deployment/auditbot` for single-node instances
- Storage space required is proportional to the number of events tracked.

## Synapse storage:

- Media:
  - File stored with uid=10991/gid=10991, default config uses `/data/element-deployment/synapse` for single-node instances
  - Storage space required grows with the number and size of uploaded media. For more information, see ESS Sizing

## Postgres (in-cluster) storage:

- Files stored with uid=999/gid=999, default config uses `/data/postgres` for single-node instances

## Backup Guidance:

- **Adminbot:**
  - Backups should be made by taking a snapshot of the PV (ideally) or rsyncing the backing directory to backup storage

- **Auditbot:**
    - Backups should be made by taking a snapshot of the PV (ideally) or rsyncing the backing directory to backup storage
  - **Synapse Media:**
    - Backups should be made by taking a snapshot of the PV (ideally) or rsyncing the backing directory to backup storage
  - **Postgres (in-cluster):**
    - Backups should be made by `kubectl -n element-onprem exec -it postgres-synapse-0 -- sh -c 'pg_dump -U $POSTGRES_USER $POSTGRES_DB' > synapse_postgres_backup_$(date +%Y%m%d-%H%M%S).sql`
  - **Postgres (external):**
    - Backup procedures as per your DBA
  - **Configuration:**
    - Please ensure that your entire configuration directory (that contains at least `parameters.yml` & `secrets.yml` but may also include other sub-directories & configuration files) is regularly backed up
      - The suggested configuration path in Element's documentation is `~/element-onpremise-config` but could be anything. It is whatever directory you used with the installer.
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