

DataStax Enterprise (DSE) backups

Configure Backup Store in dse.yaml file:

```
backup_service:
  enabled: true
  stores:
    local_fs_store:
      type: local
      location: /mnt/backups/dse
      max_backup_age: 7d
      max_backup_count: 10
      # Optional: Compression settings
      compression:
        chunk_length_kb: 64
        sstable_algorithm: LZ4Compressor
```

Create Backup Directory

```
sudo mkdir -p /mnt/backups/dse
sudo chown -R cassandra:cassandra /mnt/backups/dse
sudo chmod 750 /mnt/backups/dse
```

Taking Backups

Full Snapshot Backup

```
# Using nodetool
nodetool snapshot --tag full_backup_$(date +%Y%m%d) --backup-store local_fs_store

# Or using dsetool (DSE-specific)
dsetool backup --backup-store local_fs_store --tag weekly_full
```

Incremental Backup (if enabled)

Enable incremental backups

```
ALTER KEYSPACE keyspace_name WITH incremental_backups = true;
```

```
dsetool backup --backup-store local_fs_store --tag increment_1
```

Restoring from Backup

Full Backup Restore:

```
# Stop the node first
```

```
sudo systemctl stop dse
```

```
# Restore from backup store
```

```
dsetool restore --backup-store local_fs_store --tag daily_20240101_020000 --restore-dir /var/lib/cassandra/data
```

```
# Restart the node
```

```
sudo systemctl start dse
```

```
# Run repair
```

```
nodetool repair
```

Partial Restore (specific keyspace/table

```
dsetool restore --backup-store local_fs_store \  
    --tag daily_20240101_020000 \  
    --keyspace my_keyspace \  
    --table my_table
```