

# Backup/Restore



# What are we going to do?



- Backup a database
- Mess up the data in the database
- Restore from the backup
- Tamper with the store files
- Check consistency of the store files



A collection of tools for executing administrative tasks against the database.



Run the following command from your Neo4j home directory:

`./bin/neo4j-admin`

```
neo4j-admin restore --from=<backup-directory> --database=<database-name> [--force]
```

Restore a backed up database.

```
neo4j-admin users <subcommand> [<username>] [<password>] [--requires-password-change]
```

Runs several possible sub-commands for managing the native users repository

```
neo4j-admin roles <subcommand> [<roleName>] [<username>]
```

Runs several possible sub-commands for managing the native roles repository

```
neo4j-admin backup [--from=<address>] --to=<backup-path> [--check-consistency] [--additional-config=<config-file-path>] [--timeout=<timeout>]
```

Perform a backup, over the network, from a running Neo4j server into a local copy of the database store (the backup).

```
neo4j-admin check-consistency --database=<database> [--additional-config=<file>] [--verbose]
```

Check the consistency of a database.

```
neo4j-admin import --mode={database|csv} --database=<database-name>
```

Import a collection of CSV files with `--mode=csv`, or a database from a pre-3.0 installation with `--mode=database`.

## bin/neo4j-admin backup



Perform an online backup of the database.



## bin/neo4j-admin backup



Run the following command from your Neo4j home directory:

```
./bin/neo4j-admin backup \  
--from localhost:6362 \  
--to /tmp/backup-graph-connect
```

FROM 3.3.4 onwards:

```
./bin/neo4j-admin backup \  
--backup-dir=/tmp/backup-graph-connect/ --name=backupgc
```

## Mess up the database

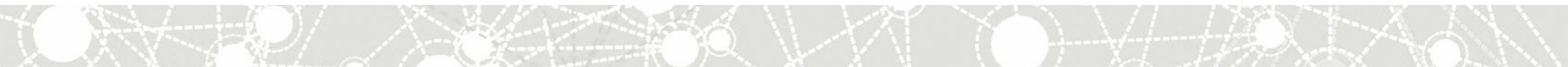


Let's mess up some of the nodes in the database.

Execute the following query:

```
MATCH (p:Person)
```

```
SET p.name = "Emil"
```



## Restoring a backup



We'd better restore the database. First we'll need to stop the database:

```
./bin/neo4j stop
```



## bin/neo4j-admin restore



Restore a backed up database.



## bin/neo4j-admin restore



Run the following command from your Neo4j home directory:

```
./bin/neo4j-admin restore \  
--from /tmp/backup-graph-connect/graph.db \  
--force
```

From 3.3.4 onwards:

```
./bin/neo4j-admin restore \  
--from /tmp/backup-graph-connect/backupgc \  
--force
```

## Restoring a backup



Now start the database up...

```
./bin/neo4j start
```

...and run the following query to check the data has been restored:

```
MATCH (p:Person)
```

```
RETURN p
```



## Tamper with the store files



Restore the backup to another database name:

```
./bin/neo4j-admin restore \  
--from /tmp/backup-graph-connect \  
--database tamper.db \  
--force
```

Tamper with one of the files in data/databases/tamper.db

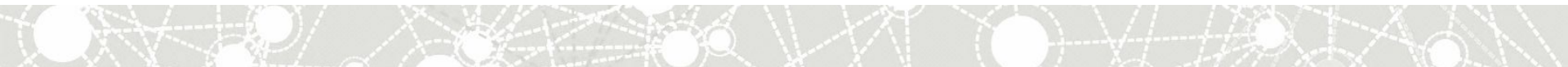
e.g. type some random characters into neostore.nodestore.db

## Check consistency of the database



```
./bin/neo4j-admin check-consistency
```

```
neo4j-admin check-consistency --database=<database>  
[--additional-config=<file>] [--verbose]
```



## Check consistency of the database



```
./bin/neo4j-admin check-consistency --database tamper.db
```



## Check consistency of the database



- Automatically runs as part of the backup process
- Consistency check is an expensive process that will compete for resources with the database; therefore
  - You can disable consistency check in the backup process
  - You can move the backup to a different server and run consistency check there

# End of Module Backup/Restore

Questions ?

