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

bin/neo4j-admin

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

bin/neo4j-admin

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 ?