Setup of redis

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System

- I use Debian, version 8.7 (why?)

- Vi is used as a text editor in the following

Why Redis?

- I need a data store of the kind: key → multiple values. Millions of keys, with hundreds or thousands of values for each key.

- If in RAM, these queries on key-values than scanning tables in a db - I think.

- Redis offers join / intersection / ... operations on sets of keys, which are useful in my use case.

Installing Redis

```
sudo apt-get update && sudo apt-get upgrade
sudo apt-get install software-properties-common
```

DO (source: https://www.linode.com/docs/databases/redis/deploy-redis-on-ubuntu-or-debian)

```
sudo vi /etc/apt/sources.list.d/dotdeb.list
```

```
in this file, write:
deb http://packages.dotdeb.org stable all
deb-src http://packages.dotdeb.org stable all
```

Then: wget https://www.dotdeb.org/dotdeb.gpg sudo apt-key add dotdeb.gpg sudo apt-get update sudo apt-get install redis-server

Stop / start / restart redis:

sudo service redis-server restart

OR sudo wget http://download.redis.io/redis-stable.tar.gz sudo tar xvzf redis-stable.tar.gz cd redis-stable make sudo cp src/redis-server /usr/local/bin/ sudo cp src/redis-cli /usr/local/bin/

```
sudo mkdir /etc/redis
sudo mkdir /var/redis
```

```
sudo cp utils/redis_init_script /etc/init.d/redis_6379
```

```
sudo vi /etc/init.d/redis_6379
```

Replace the beginning by:

(source: https://github.com/antirez/redis/issues/804#issuecomment-234132188)

#!/bin/sh # BEGIN INIT INFO # Provides: redis # Required-Start: $all # Required-Stop: $all # Default-Start: 2 3 4 5 # Default-Stop: 0 1 6 # Short-Description: starts the redis server # Description: starts redis using… # END INIT INFO

sudo cp redis.conf /etc/redis/6379.conf sudo mkdir /var/redis/6379

sudo vi /etc/redis/6379.conf

- Edit the configuration file, making sure to perform the following changes:
- Set daemonize to yes (by default it is set to no).
- Set the pidfile to /var/run/redis_6379.pid (modify the port if needed).
- Change the port accordingly. In our example it is not needed as the default port is already 6379.
- Set your preferred loglevel.
- Set the logfile to /var/log/redis_6379.log
- Set the dir to /var/redis/6379 (very important step!)

sudo update-rc.d redis_6379 defaults

Starting reddis:

sudo /etc/init.d/redis_6379 start

moving redis from one server to another

Do scp as described in the tutorial on ssh

Make sure sure redis is stopped and appendonly mode is OFF in the config file.

Move dump.rdb to /var/lib/redis Change ownership and permission: chown redis:redis dump.rdb chmod 644 dump.rdb Start redis.

Change back appendonly to yes when redis has launched.

The end

Tutorial by Clement Levallois.

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