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Graduate and Extended Studies

FA19: CMPE-297 Sec 01 - Special Topics

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Learning Objective: create an in-memory redis cache database.

Please download Redis Cache and develop a simple interface on redis cache console CLI application to add following key value pairs:

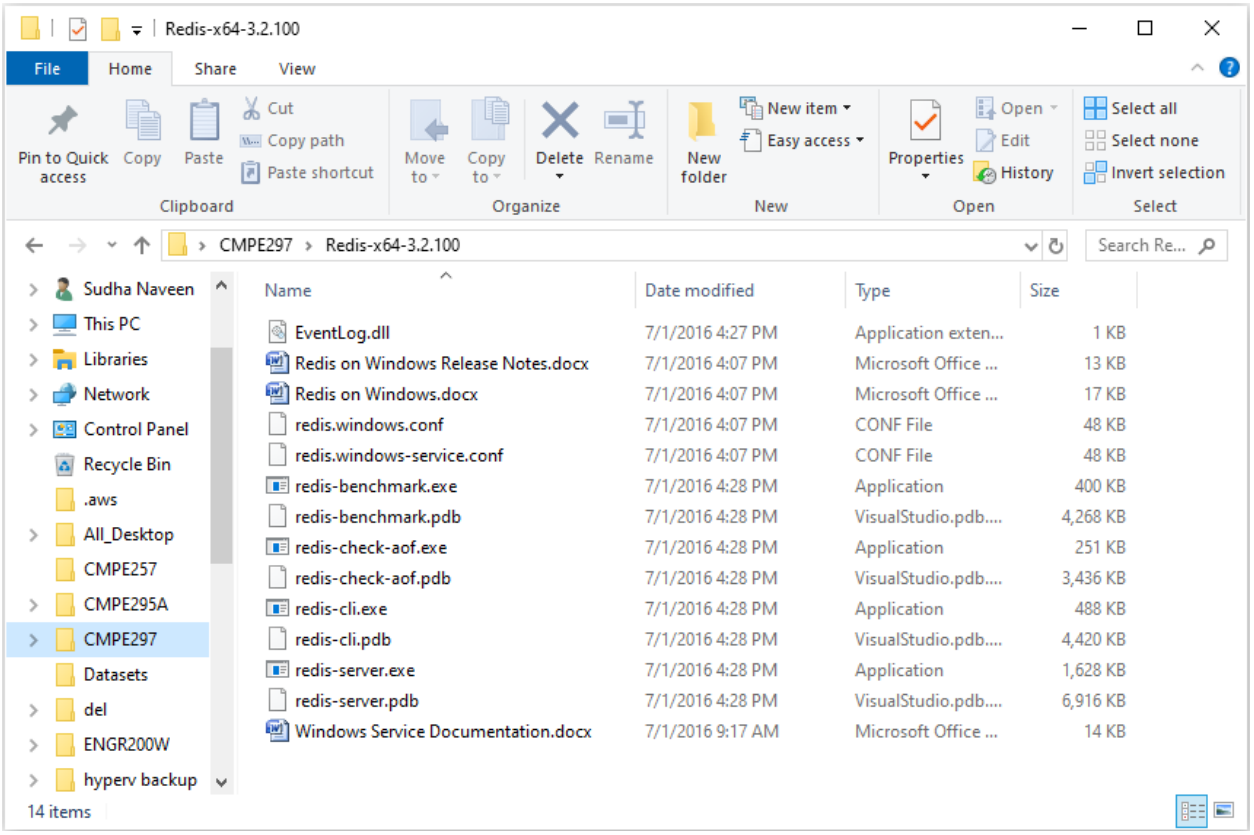
- Key: "Database"
- Value: "In-Memory"

- Key: "User"
- Value: "In-Memory User"

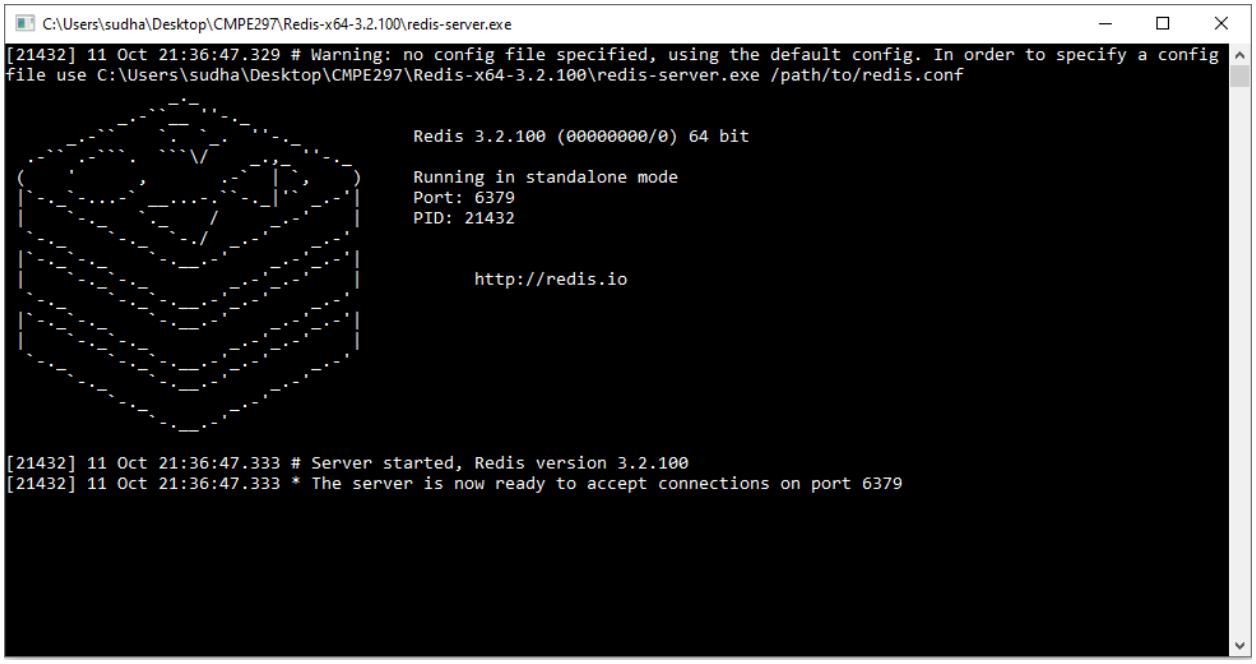
- Key: "Password"
- Value: "none"

Screenshots:

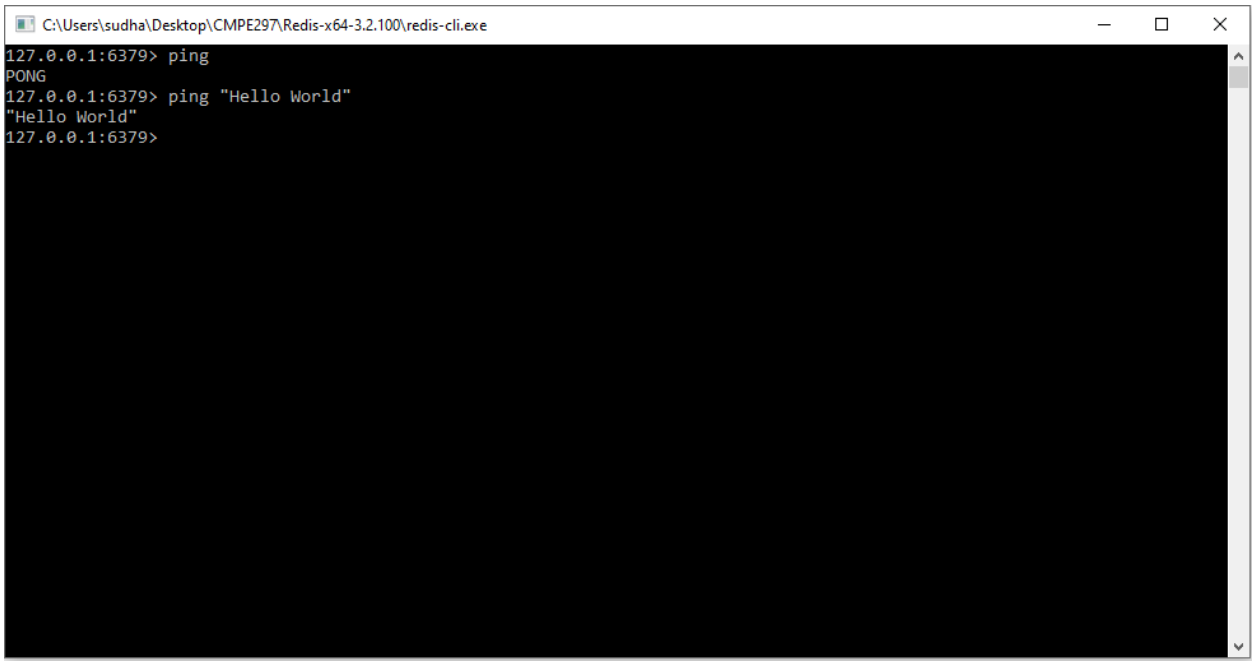
- **Download the latest version of Redis for Windows:** https://github.com/microsoftarchive/redis/releases
- **Unzip the file by extracting it in a specified folder.**



- **Run the redis-server.exe file to start Redis Server. The Redis Server starts on port 6379.**



- **Check the connection by pinging the redis server. Server responds to the ping message.**



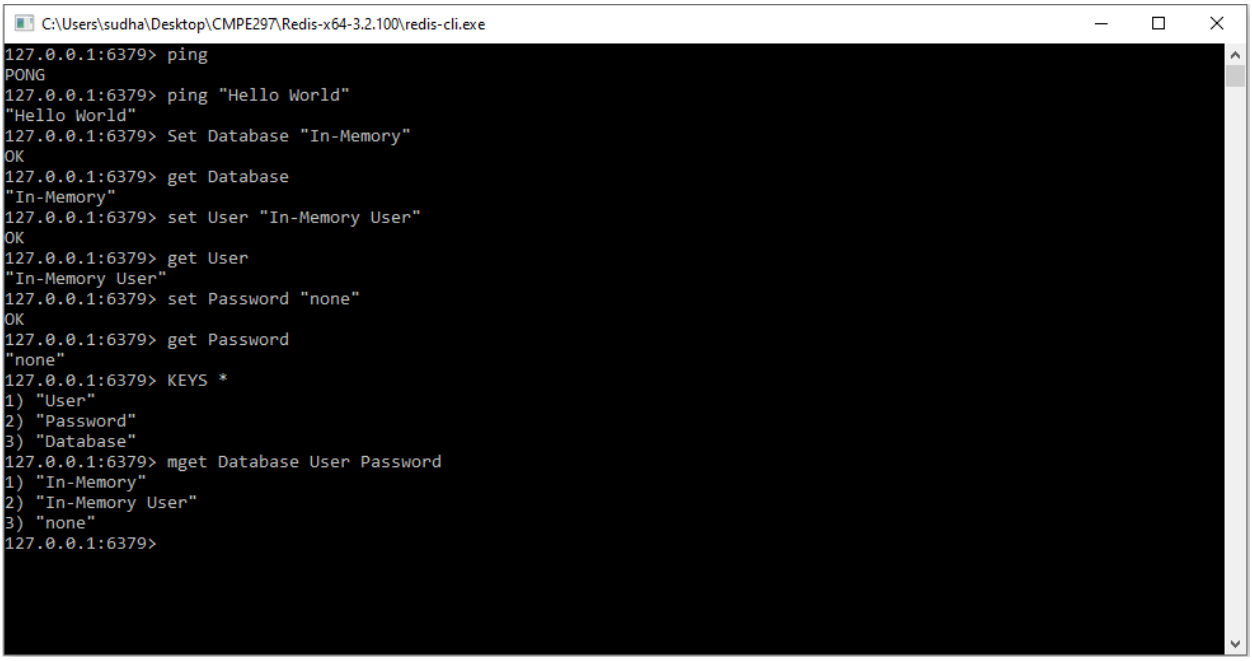
- **Store the key-value pairs by inputting 'set key value'. Retrieve the value for corresponding key by 'get key'. The key-value pairs given here are:**

  - Key: "Database"
  - Value: "In-Memory"

  - Key: "User"
  - Value: "In-Memory User"

  - Key: "Password"
  - Value: "none"

- **List all the stored keys by KEYS *. This command retrieves all the keys stored in redis cache. We can also retrieve their corresponding values by 'mget [key….]'.**



- **List of commands executed in redis-cli and the outputs showing given stored keys and their values.**

127.0.0.1:6379> ping
PONG
127.0.0.1:6379> ping "Hello World"
"Hello World"
127.0.0.1:6379> Set Database "In-Memory"
OK
127.0.0.1:6379> get Database
"In-Memory"
127.0.0.1:6379> set User "In-Memory User"
OK
127.0.0.1:6379> get User
"In-Memory User"
127.0.0.1:6379> set Password "none"
OK
127.0.0.1:6379> get Password
"none"
127.0.0.1:6379> KEYS *
1) "User"

2) "Password"
3) "Database"
127.0.0.1:6379> mget Database User Password
1) "In-Memory"
2) "In-Memory User"
3) "none"
127.0.0.1:6379>

- **Using Redis Hashes to get field-value pairs stored in a hash key named Key:Value. HMSET sets multiple fields of the hash, HGETALL retrieves all the stored field-value pairs.**