client-kill

- CLIENT KILL and Valkey Sentinel
- Notes

The `CLIENT KILL` command closes a given client connection. This command support two formats, the old format:

```
CLIENT KILL addr:port
```

The `ip:port` should match a line returned by the `CLIENT LIST` command (`addr` field).

The new format:

```
CLIENT KILL <filter> <value> ... ... <filter> <value>
```

With the new form it is possible to kill clients by different attributes instead of killing just by address. The following filters are available:

- `CLIENT KILL ADDR ip:port`. This is exactly the same as the old three-arguments behavior.
- `CLIENT KILL LADDR ip:port`. Kill all clients connected to specified local (bind) address.
- `CLIENT KILL ID client-id [client-id ...]`. Allows to kill a client by its unique `ID` field. Client `ID`'s can be retrieved using the `CLIENT LIST` command. The filter supports one or more `client-id` arguments.
- `CLIENT KILL TYPE type`, where *type* is one of `normal`, `master`, `replica` and `pubsub`. This closes the connections of **all the clients** in the specified class. Note that clients blocked into the `MONITOR` command are considered to belong to the `normal` class.
- `CLIENT KILL USER username`. Closes all the connections that are authenticated with the specified ACL username, however it returns an error if the username does not map to an existing ACL user.
- `CLIENT KILL SKIPME yes/no`. By default this option is set to `yes`, that is, the client calling the command will not get killed, however setting this option to `no` will have the effect of also killing the client calling the command.
- `CLIENT KILL MAXAGE maxage`. Closes all the connections that are older than the specified age, in seconds.
- `CLIENT KILL FLAGS flags`. Kill only clients whose flag string includes the specified characters. Returns an error if valid flags are not used.
- `CLIENT KILL NAME name`. Kill clients with the specified name.

- `CLIENT KILL IDLE idle`. Kill only clients that have been idle for at least the specified time.
- `CLIENT KILL LIB-NAME lib-name`. Kill clients using the specified library name.
- `CLIENT KILL LIB-VER lib-version`. Kill clients running the specified library version.
- `CLIENT KILL DB db`. Kill clients operating on the specified database id.
- `CLIENT KILL IP ip`. Kill clients with the specified originating IP address.
- `CLIENT KILL CAPA capa`. Kill clients that have the specified capabilities.
- `CLIENT KILL NOT-ID client-id [client-id ...]`. Kill clients are not in the IDs set.
- `CLIENT KILL NOT-TYPE type`. Kill clients are not in the specified type.
- `CLIENT KILL NOT-ADDR ip:port`. Kill clients except the specified ip and port.
- `CLIENT KILL NOT-LADDR ip:port`. Kill all clients not connected to specified local (bind) address.
- `CLIENT KILL NOT-USER username`. Closes all the connections that are not authenticated with the specified ACL username.
- `CLIENT KILL NOT-FLAGS flags`. Kill clients not with the specified flag string.
- `CLIENT KILL NOT-NAME name`. Kill clients not with the specified name.
- `CLIENT KILL NOT-LIB-NAME lib-name`. Kill clients not using the specified library name.
- `CLIENT KILL NOT-LIB-VER lib-version`. Kill clients not with the specified library version.
- `CLIENT KILL NOT-DB db`. Kill clients not with the specified database ID.
- `CLIENT KILL NOT-CAPA capa`. Kill clients not with the specified capabilities.
- `CLIENT KILL NOT-IP ip`. Kill clients not with the specified IP address.

It is possible to provide multiple filters at the same time. The command will handle multiple filters via logical AND. For example:

```
CLIENT KILL addr 127.0.0.1:12345 type pubsub
```

is valid and will kill only a pubsub client with the specified address. This format containing multiple filters is rarely useful currently.

When the new form is used the command no longer returns `OK` or an error, but instead the number of killed clients, that may be zero.

CLIENT KILL and Valkey Sentinel

Valkey Sentinel uses CLIENT KILL to terminate client connections when an instance is reconfigured. This mechanism ensures that clients re-establish a connection with a Sentinel, refreshing their configurations.

Notes

Due to the single-threaded nature of Valkey, it is not possible to kill a client connection while it is executing a command. From the client point of view, the connection can never be closed in the

middle of the execution of a command. However, the client will notice the connection has been closed only when the next command is sent (and results in network error).

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