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# Database user configuration

By default, the ClickHouse database connection uses the user **default** with an empty password.

If necessary, you can set a username and password.

To do this, on the server where QoE Stor is installed, in the file `/etc/clickhouse-server/users.xml` under the `<users>` section:

1. Set a password for the **default** user

```
<!-- Users and ACL. -->
<users>
  <!-- If user name was not specified, 'default' user is used
  <default>
    <!-- Password could be specified in plaintext or in SHA
    If you want to specify password in plaintext (not
    Example: <password>qwerty</password>.
    Password could be empty.
    If you want to specify SHA256, place it in 'password_sha256_hex'
    Example: <password_sha256_hex>65e84be33532fb784c48
    Restrictions of SHA256: impossibility to connect t
    If you want to specify double SHA1, place it in 'password_double_sha1_hex'
    Example: <password_double_sha1_hex>e395796d6546b1b
    How to generate decent password:
    Execute: PASSWORD=$(base64 < /dev/urandom | head -
    In first line will be password and in second - cor
    How to generate double SHA1:
    Execute: PASSWORD=$(base64 < /dev/urandom | head -
    In first line will be password and in second - cor
  -->
  <password>vasexperts555</password>
  <!-- List of networks with open access.
```

2. Add a new user (for example, `<vasexpert>`) and set the parameters **networks**, **profile**, and **quota** the same as for the default user

```
76 | | All results of DNS requests are cached till server
77 | | -->
78 | | <networks incl="networks" replace="replace">
79 | | <ip>::/0</ip>
80 | | </networks>
81 | |
82 | | <!-- Settings profile for user. -->
83 | | <profile>default</profile>
84 | |
85 | | <!-- Quota for user. -->
86 | | <quota>default</quota>
87 | | </default>
88 | | <vasexpert>
89 | | <password>vase123</password>
90 | | <networks incl="networks" replace="replace">
91 | | <ip>::/0</ip>
92 | | </networks>
93 | | <profile>default</profile>
94 | | <quota>default</quota>
95 | | </vasexpert>
96 | </users>
97 |
```

In the file `/etc/clickhouse-client/config.xml` under the `<config>` section, add the parameters `<user>` and `<password>`

```
<!-- Config set into /etc/clickhouse-client/. It's used if no ot
<config>
  <openssl>
    <client> <!-- Used for connection to server's secure tcp
      <loadDefaultCAFile>true</loadDefaultCAFile>
      <cacheSessions>true</cacheSessions>
      <disableProtocols>sslv2,sslv3</disableProtocols>
      <preferServerCiphers>true</preferServerCiphers>
      <!-- Use for self-signed: <verificationMode>none</ver
      <invalidCertificateHandler>
        <!-- Use for self-signed: <name>AcceptCertificat
        <name>RejectCertificateHandler</name>
      </invalidCertificateHandler>
    </client>
  </openssl>
  <!--
  It's a custom prompt settings for the clickhouse-client
  Possible macros:
    {host}
    {port}
    {user}
    {database}
    {display_name}
  Terminal colors: https://misc.flogisoft.com/bash/tip_col
  See also: https://wiki.hackzine.org/development/misc/rea
  -->
  <prompt_by_server_display_name>
    <default>{display_name} :) </default>
    <test>{display_name} \x01\xe[1;32m\x02:)\x01\xe[0m\x02 </t
    <production>{display_name} \x01\xe[1;31m\x02:)\x01\xe[0m\x
  </prompt_by_server_display_name>

  <user>vasexpert</user>
  <password>vasel23</password>
</config>
```

In DPIUI2, in the configuration section, set the username and password for connecting to the ClickHouse database

