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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'
    Example: <password_sha256_hex>65e84be33532fb784c48
    Restrictions of SHA256: impossibility to connect t

    If you want to specify double SHA1, place it in 'p
    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 other
<config>
  <openssl>
    <client> <!-- Used for connection to server's secure tcp
      <loadDefaultCAFile>true</loadDefaultCAFile>
      <cacheSessions>true</cacheSessions>
      <disableProtocols>ssl2,ssl3</disableProtocols>
      <preferServerCiphers>true</preferServerCiphers>
      <!-- Use for self-signed: <verificationMode>none</verificationMode>
      <invalidCertificateHandler>
        <!-- Use for self-signed: <name>AcceptCertificateHandler</name>
        <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_colors_and_formatting/
  See also: https://wiki.hackzine.org/development/misc/readme
  ==>
  <prompt_by_server_display_name>
    <default>{display_name} :) </default>
    <test>{display_name} \x01\e[1;32m\x02:) \x01\e[0m\x02 </test>
    <production>{display_name} \x01\e[1;31m\x02:) \x01\e[0m\x02 </production>
  </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

