**#20783** - <https://redmine.vnc.biz/issues/20783>

1. **Description**:

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| the current MaM implementation uses text files to store the MaM messages.  Find how to modify the prosody config to store the MaM messages into the installed MySQL DB.   1. upgrade prosody-0.10 to the latest development (they changed recently the sql DB schema 2. create a prosody DB user with the needed rights to insert and select the MaM messages. 3. modify the prosody config storage section, so the plugins use the DB to store the user stuff 4. modify the mam prosody config to use the DB to store the history messages 5. test |

1. **Analytic**
   1. **Solutions**:

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| Current we already used prosody-0.10  I created new database "prosody"  Create new user and grant access to "prosody" database  Change config of prosody to use sql  default\_storage = "sql"  storage = { archive2 = "sql2" } sql = { driver = "MySQL", database = "prosody", username = "prosody\_vnc", password = "weroiudbaksdawevasdffaslanadfgad", host = "localhost" } sql\_manage\_tables = true  I need to create table "prosodyarchive" for saving message.  When chat 1-1 between 2 users, message will storage to table "prosodyarchive" but when get history messages I got error about mod\_storage\_sql2.lua  I must use "sql2" because mod\_mam required using "storage = { archive2 = "sql2" }" to storage backend  <https://code.google.com/p/prosody-modules/wiki/mod_mam>  I think we must modify module "mod\_storage\_sql2.lua" to use MySQL. Some query function of "mod\_storage\_sql2.lua" is incompatible with current MySQL version.  Follow this plan:  - Modify "mod\_storage\_sql2.lua" and put it into prosody\_modules\_vnctalk folder  - Change prosody config template "prosody.cfg.lua.template"  - Add to shell script install:  + install driver lua sql: apt-get install lua-dbi-mysql  + Create new database "prosody"  + Define new config in script install: MYSQL\_PROSODY\_DBUSER, MYSQL\_PROSODY\_DBUSER\_PASSWD to config prosody  + Grant access for MYSQL\_PROSODY\_DBUSER  - Test module mam after reinstall by script install |

1. **Implementation**
   1. **Code:**

Change code in "vnctalkInstaller.sh"

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| ... export PKG\_LIBRARIES="${PROSODY\_DEPS} ${JITSIVIDEOBRIDGE\_DEPS} ${JICOFO\_DEPS} lua-dbi-sqlite3 lua-dbi-mysql liblua5.1-bitop-dev liblua5.1-bitop0 python-ldap libldap-dev liblua5.1-0-dev lua-lpty"  ...  read -p "MySQL Prosody Database user [${TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER}]: " MYSQ\_PROSODY\_DBUSER export TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER="${MYSQ\_PROSODY\_DBUSER:-$TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER}"  read -p "MySQL Prosody user secret [${TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER\_PASSWD}]: " MYSQL\_PROSODY\_USER\_PASSWD export TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER\_PASSWD="${MYSQL\_PROSODY\_USER\_PASSWD:-$TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER\_PASSWD}"  ...  export TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER=$(getOption "MySQLDB" "MYSQL\_PROSODY\_DBUSER" "prosody") export TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER\_PASSWD=$(getOption "MySQLDB" "MYSQL\_PROSODY\_DBUSER\_PASSWD" "$(getRandomPassword)") ...  setNoEmptyOption "MySQLDB" "MYSQL\_PROSODY\_DBUSER" "${TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER}"  setNoEmptyOption "MySQLDB" "MYSQL\_PROSODY\_DBUSER\_PASSWD" "${TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER\_PASSWD}"  ... |

Change prosody config template "prosody.cfg.lua.template"

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| ... --set default storage sql default\_storage = "sql"  storage = { archive2 = "sql2" }  -- For the "sql" backend, you can uncomment \*one\* of the below to configure: --sql = { driver = "SQLite3", database = "prosody.sqlite" } -- Default. 'database' is the filename. sql = { driver = "MySQL", database = "prosody", username = "${TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER}", password = "${TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER\_PASSWD}", host = "localhost" } --sql = { driver = "PostgreSQL", database = "prosody", username = "prosody", password = "secret", host = "localhost" } --sql = { -- driver = "SQLite3", -- database = "prosody.sqlite"  -- }  --allow auto create table sql\_manage\_tables = true ... |

Change script install prosody "install\_prosody.sh"

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| ... #config database print\_title "Config MySQL database"  mysql -uroot -p"${TEMPLATE\_VNCTALK\_MYSQL\_ROOT\_PASSWD}" -e "CREATE DATABASE IF NOT EXISTS prosody;"  mysql -uroot -p"${TEMPLATE\_VNCTALK\_MYSQL\_ROOT\_PASSWD}" -e "CREATE TABLE IF NOT EXISTS prosody.prosody(host VARCHAR(1023) NOT NULL,user VARCHAR(1023) NOT NULL,store VARCHAR(1023) NOT NULL,\`key\` VARCHAR(1023) NOT NULL,type VARCHAR(1023) NOT NULL,value MEDIUMTEXT NOT NULL);"  mysql -uroot -p"${TEMPLATE\_VNCTALK\_MYSQL\_ROOT\_PASSWD}" -e "CREATE INDEX prosody\_index ON prosody.prosody (host, user, store, \`key\`);"  mysql -uroot -p"${TEMPLATE\_VNCTALK\_MYSQL\_ROOT\_PASSWD}" -e "CREATE TABLE IF NOT EXISTS prosody.prosodyarchive(sort\_id INTEGER PRIMARY KEY AUTO\_INCREMENT,host VARCHAR(1023) NOT NULL,user VARCHAR(1023) NOT NULL,store VARCHAR(1023) NOT NULL,\`key\` VARCHAR(1023) NOT NULL,\`when\` INTEGER(11) NOT NULL,\`with\` VARCHAR(2047) NOT NULL,type VARCHAR(1023) NOT NULL,value MEDIUMTEXT NOT NULL);"  mysql -uroot -p"${TEMPLATE\_VNCTALK\_MYSQL\_ROOT\_PASSWD}" -e "CREATE INDEX prosodyarchive\_index ON prosody.prosodyarchive (host, user, store, \`key\`);"  mysql -uroot -p"${TEMPLATE\_VNCTALK\_MYSQL\_ROOT\_PASSWD}" -e "grant CREATE,ALTER,SELECT,INSERT,UPDATE,DELETE on prosody.\* to '${TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER}'@'localhost' identified by '${TEMPLATE\_VNCTALK\_MYSQL\_PROSODY\_DBUSER\_PASSWD}';"  ... |

Change prosody module “storage\_sql2”

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| function archive\_store:find(username, query)  ...  sql\_query="select \* from (" .. string.sub(sql\_query,1,string.len(sql\_query)-1) .. ") AS vnc\_tmp ORDER BY `sort\_id` ASC";  ...  end |