

# Scripts SQL

## Créer une fonction SHA512 dans Mysql/MariaDB compatible avec Lemonldap-ng

```
delimiter //

CREATE FUNCTION SHA512 (password VARCHAR(40)) RETURNS VARCHAR(128)
DETERMINISTIC
BEGIN
    RETURN SHA2(UNHEX(pass), 512);
END
//
```

## Créer une fonction SSHA512 (salted) dans Mysql/MariaDB

```
CREATE FUNCTION SSHA512 (password VARCHAR(40)) RETURNS VARCHAR(200)
BEGIN
    DECLARE salt VARCHAR(16);
    DECLARE i INT;

    # Generate 16 digits hex salt
    SET salt = '';
    SET i = 0;
    REPEAT
        SET i = i + 1;
        SET salt = CONCAT(salt, SUBSTRING('0123456789ABCDEF',
FLOOR(RAND()*16+1), 1));
    UNTIL i = 16 END REPEAT;

    RETURN
        CONCAT('{SSHA512}',
            TO_BASE64(UNHEX(CONCAT(
                SHA512(CONCAT(HEX(pass), salt)),
                salt
            )))
        );
END
```

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Last update: **2018/12/05 21:45**

