

➤ **BlackList using Macro and Mysql ODBC in Asterisk-** 🍌

Black List implementation by res__odbc and Macro in Asterisk .

❖ **DATABASE Script :**

- ❖ CREATE DATABASE saurabh;
- ❖ CREATE TABLE `BlackList` (`id` int(11) NOT NULL AUTO_INCREMENT, `calldate` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP, `callerid` varchar(40) NOT NULL DEFAULT '', PRIMARY KEY (`id`)) ENGINE=MyISAM AUTO_INCREMENT=6 DEFAULT CHARSET=latin1;
- ❖ CREATE USER 'saurabh'@'localhost' IDENTIFIED BY 'mypassword';
- ❖ GRANT ALL PRIVILEGES ON saurabh.* TO 'saurabh'@'localhost';
- ❖ FLUSH PRIVILEGES;

-----**Asterisk Configuration:**-----

(1.Edit ODBC configuration file

vim /etc/odbc.ini

Add the following:

```
[saurabh]
Description = MySQL connection to 'saurabh' database
Driver = MySQL
Database = saurabh
Server = localhost
User = saurabh
Password = mypassword
Port = 3306
Socket = /run/mysqld/mysqld.sock
```

2.Edit res_odbc configuration file:

vim /etc/asterisk/res_odbc.conf

Add the following:

[saurabh]

Description = MySQL connection to 'saurabh' database

Driver = MySQL

Database = saurabh

Server = localhost

User = saurabh

Password = mypassword

Port = 3306

Socket = /run/mysqld/mysqld.sock

3.Edit func_odbc configuration file:

vim /etc/asterisk/func_odbc.conf

Add the following:

[SAURABH]

dsn=saurabh

readsql=SELECT COUNT(*) FROM BlackList WHERE callerid='\${SQL_ESC(\${ARG1})}'

synopsis=Check if a caller is in BlackList

Asterisk Dial Plan:

exten => 12356,1,Answer()

same => n,Macro(BlackList,\${CALLERID(num)})

same => n(NotBlackList),NoOp()

same => n,Goto(IVR,s,1)

Asterisk Macro:

[macro-BlackList]

exten => s,1,Set(CALLERID=\${ARG1})

same => n,Set(CDR(accountcode)=BlackList)

same => n,GotoIf(\$[\${ODBC_saurabh(\${CALLERID})}]?busy)

same => n,GotoIf(\$[\${ODBC_saurabh(\${CALLERID:2})}]?busy)

same => n,GotoIf(\$[\${ODBC_saurabh(\${CALLERID:1})}]?busy)

same => n(dial),Goto(\${MACRO_CONTEXT},\${MACRO_EXTEN},NotBlackList)

same => n,Hangup()

```

same => n(busy),Playback(beep)
same => n,Playback(beep)
same => n,Playback(beep)
same => n,Hangup

```

Explanation:

- The provided script implements blacklisting functionality in Asterisk using a MySQL database.
- It sets up a database named `saaurabh` and a table named `BlackList` to store blacklisted caller IDs.
- Asterisk is configured to connect to the MySQL database using ODBC.
- The dialplan checks if the caller's number is blacklisted using a macro named `BlackList`.
- The macro checks if the caller ID is present in the `BlackList` table. If it is, the call is terminated with a "busy" signal; otherwise, it proceeds with the regular dial plan.
- Be sure to replace `mypassword` with your actual database password in the configuration files.

Googletts

<https://zaf.github.io/asterisk-googletts/>

`cd googletts/`

`tar -zxvf zaf-asterisk-googletts-v0.6-65-g0592005.tar.gz`

`cd zaf-asterisk-googletts-0592005/`

```

sudo apt-get install xsel libnotify-bin libttspic0 libttspic0-utils libttspic0-data libwww-perl
libwww-mechanize-perl libhtml-tree-perl sox libsox-fmt-mp3
sudo apt-get install mpg123

```