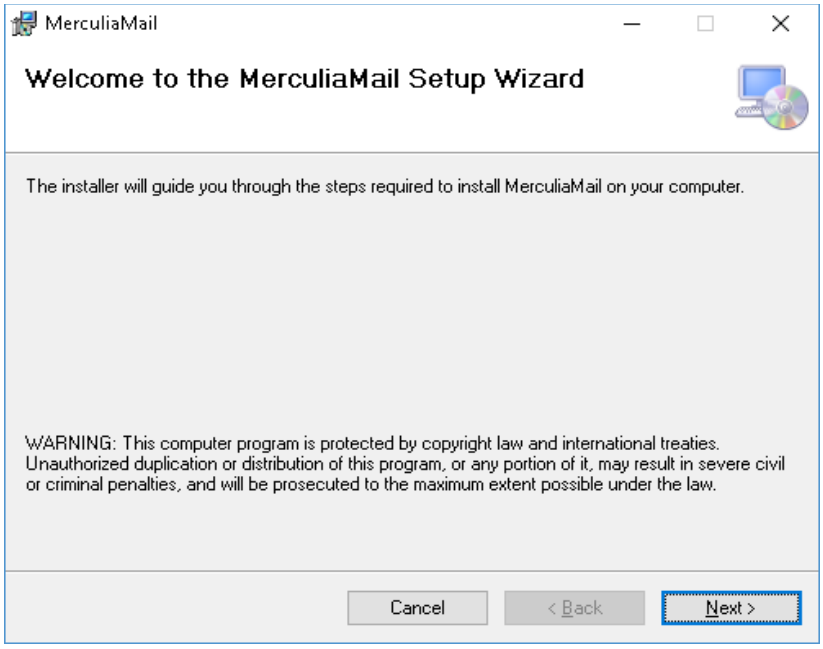
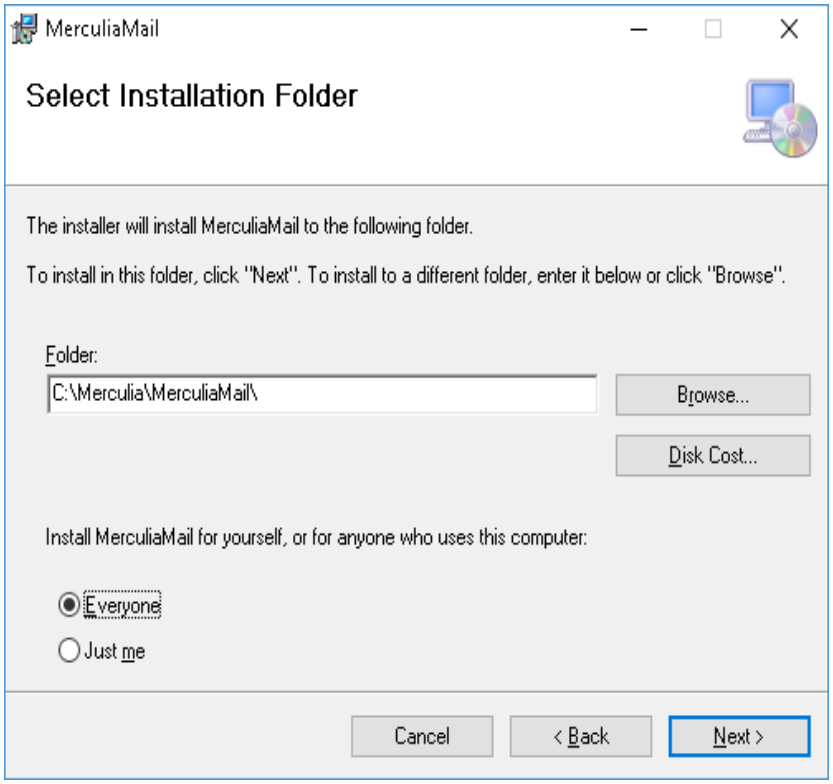
Installing and configuring the server

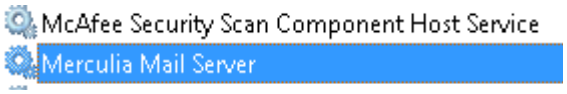
Setup file

1. The setup files can be found in https://github.com/norbertonava/emailserver/tree/master/Setup
The first step is to download both files and then run the setup.exe file.

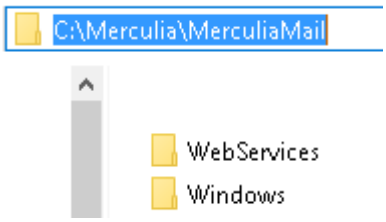




2. After the installation is completed, you might want to check that the Merculia Mail Server Windows Service is running.



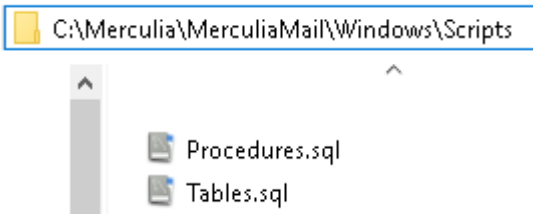
3. And that the selected installation path contains these folders:



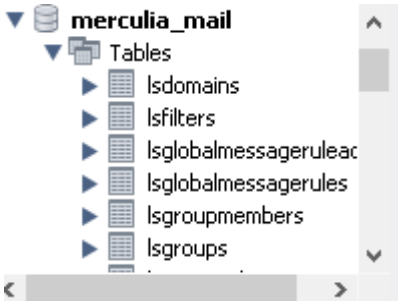
4. And that a shortcut was created on the desktop

Database

1. The first step is to configure the database. Inside the installation folder, you'll find two scripts.

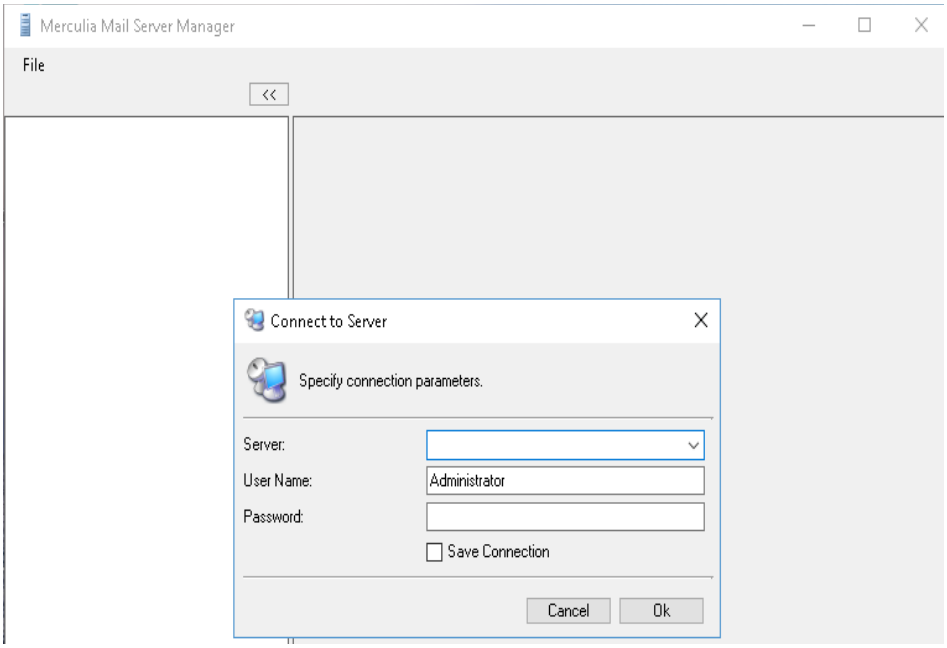


2. Create a new schema on your MySQL server and then run the Tables.sql script. Run the Procedures.sql script next. The suggested schema name is merculia_mail

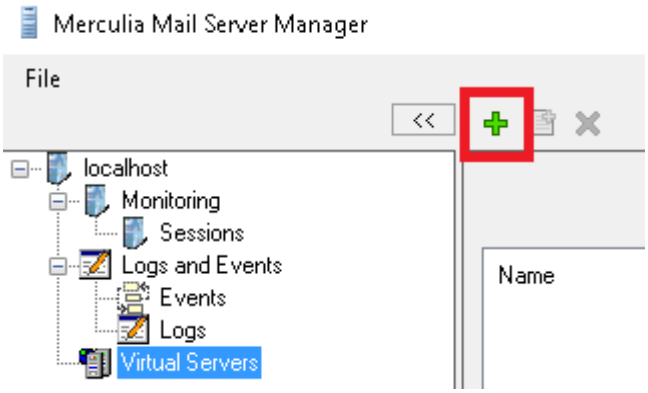


Windows Server

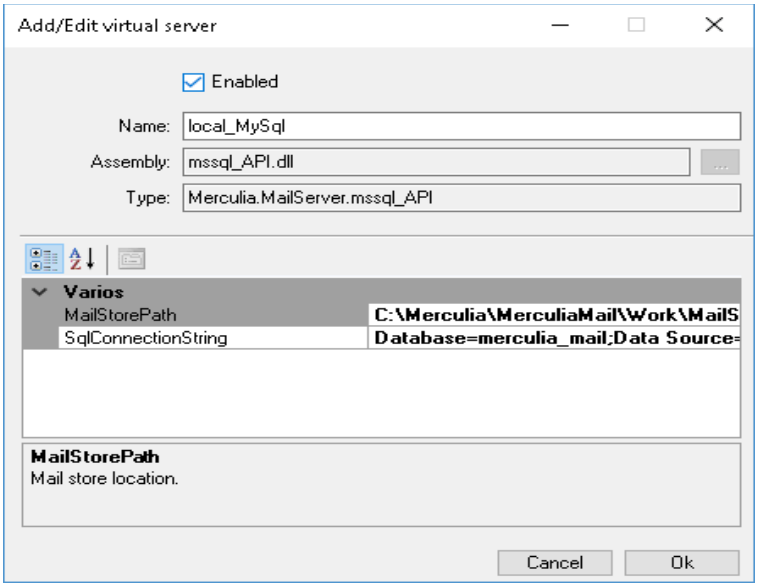
1. Using the shortcut on the desktop, launch the server. Just click the button “Ok” on this dialog.



2. Go to the Virtual Servers node and delete the “local_XML” virtual server, then click on the plus icon on the right



3. You'll need to provide the following information:

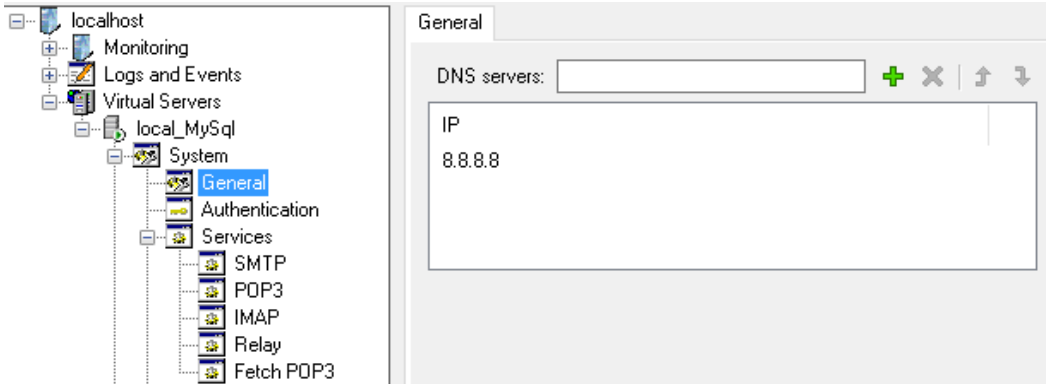


Notice that a work directory is required, you may wan to create a new folder named Work located in the installation path and then a subfolder named MailStore like this

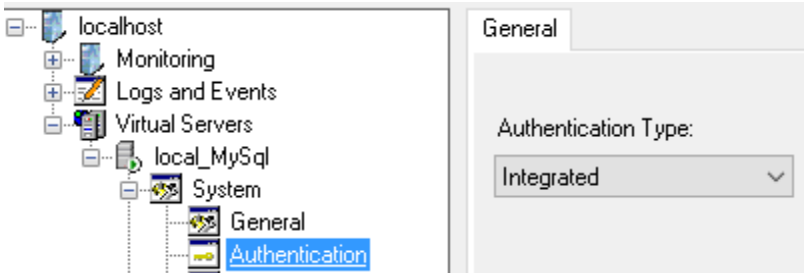
The connection string should be in this format (pointing to the MySQL schema you just created, of course):

```
Database=merculia_mail;Data Source=localhost;User Id=myuser;Password=mypassword
```

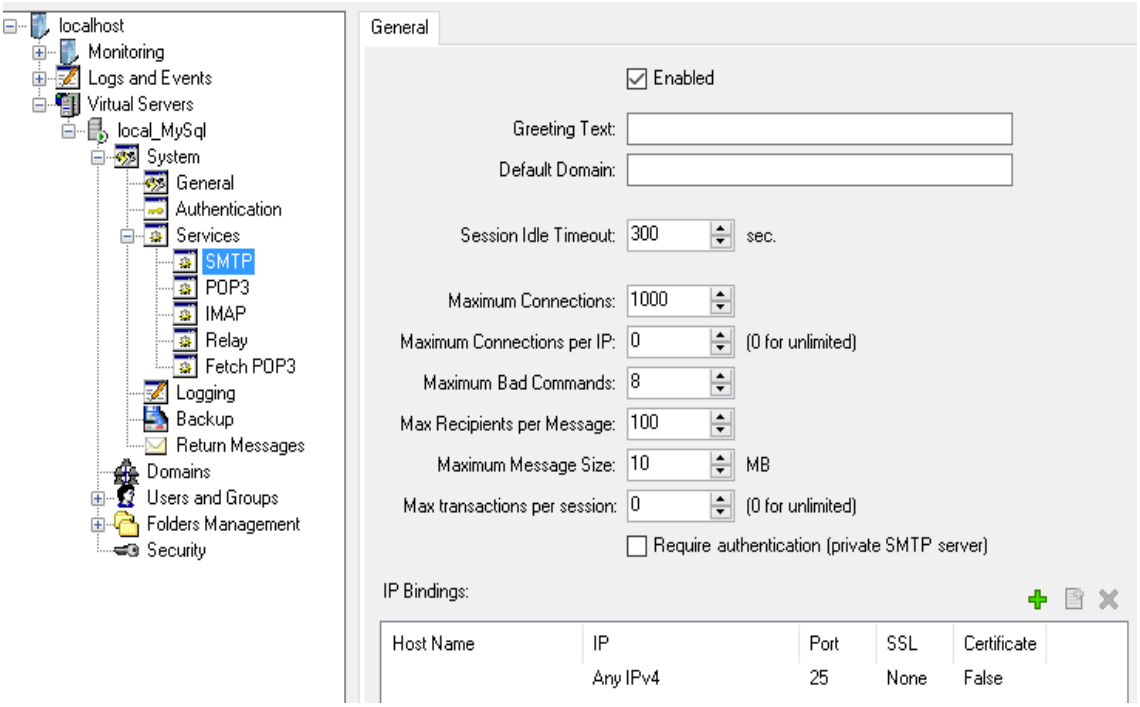
4. General configuration node. Make the proper changes to make it look like this and then click on Apply.



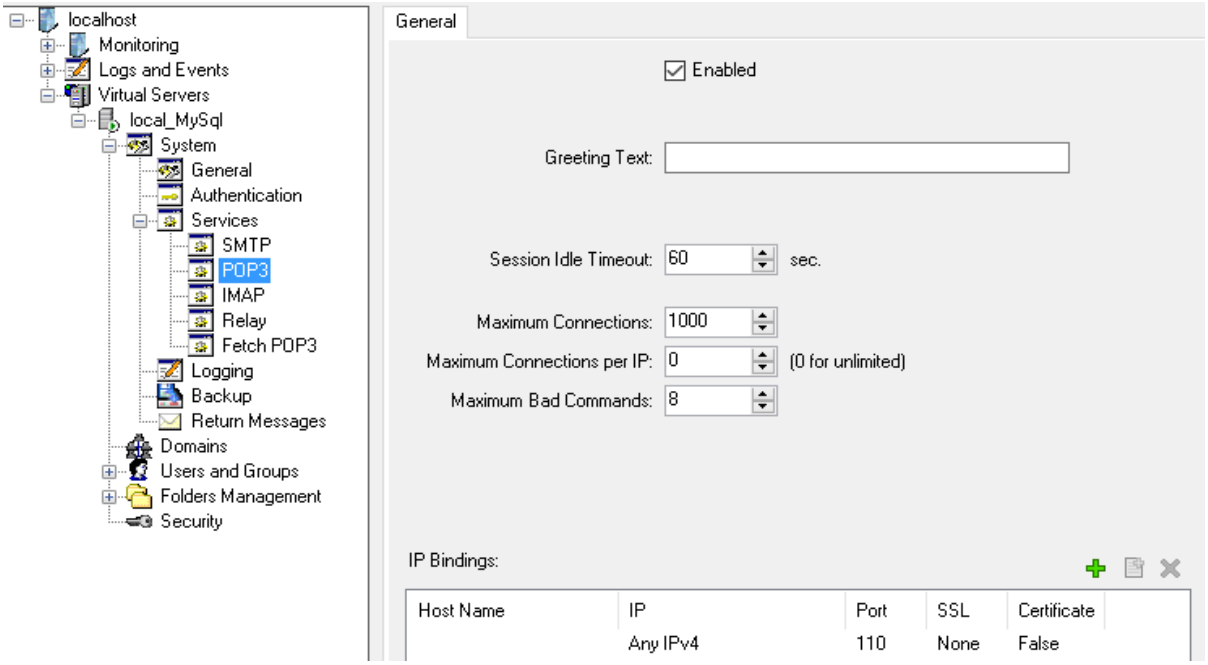
5. Authentication. Make the proper changes to make it look like this and then click on Apply.



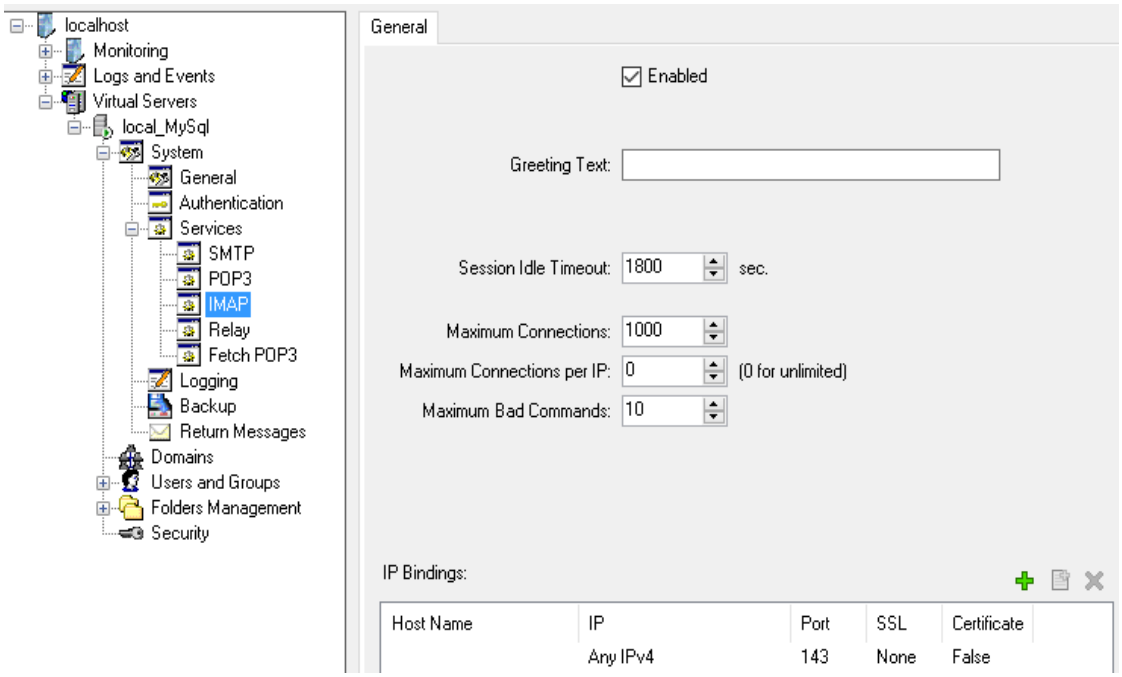
6. SMTP. Make the proper changes to make it look like this and then click on Apply.



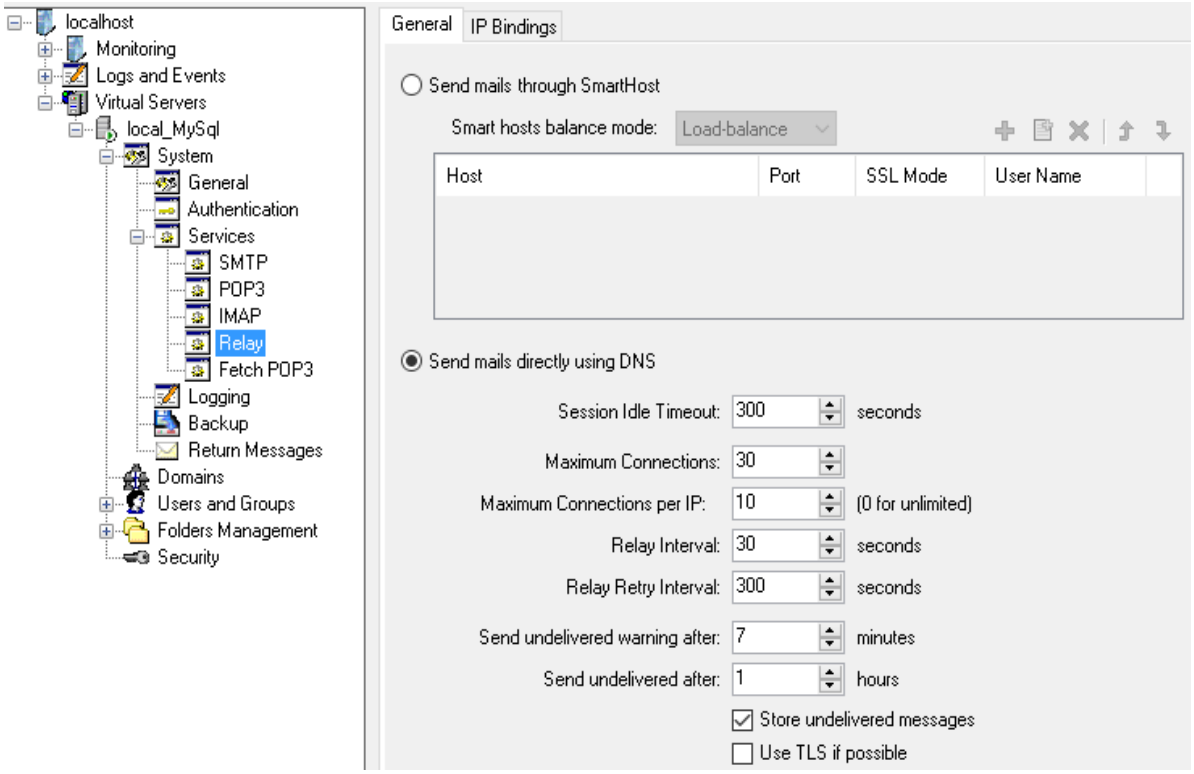
7. POP3. Make the proper changes to make it look like this and then click on Apply.



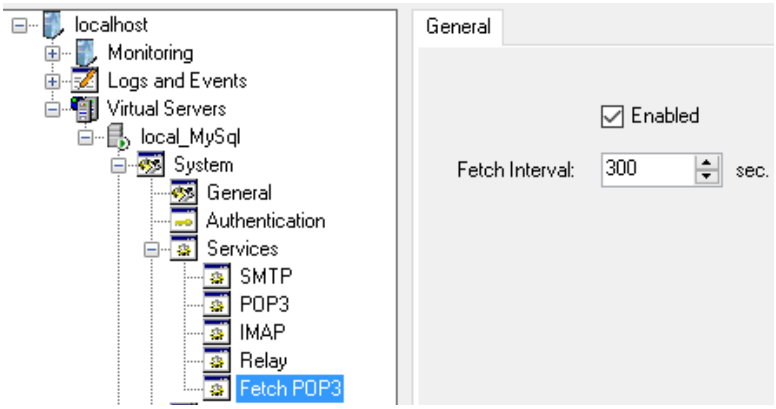
8. IMAP. Make the proper changes to make it look like this and then click on Apply.



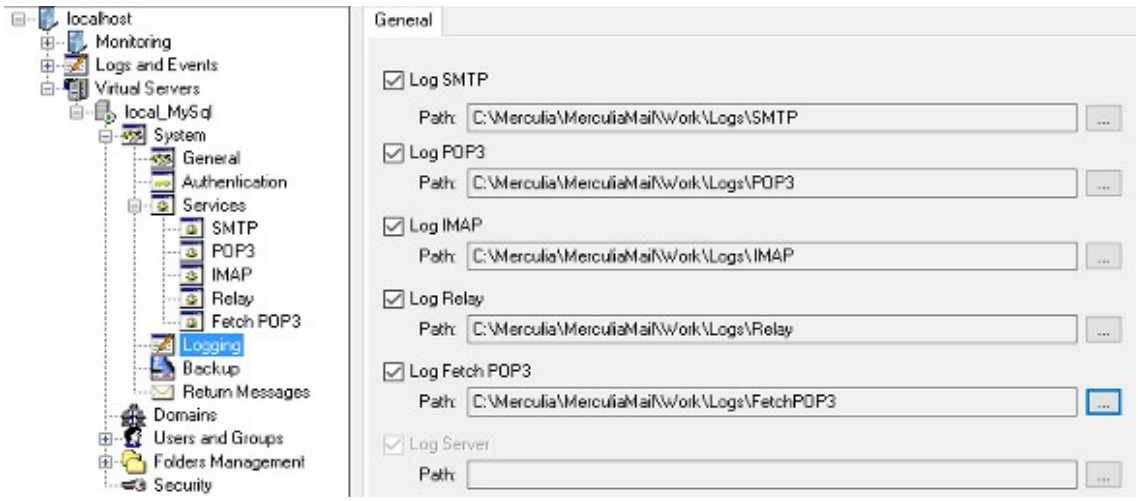
9. Relay. Make the proper changes to make it look like this and then click on Apply.



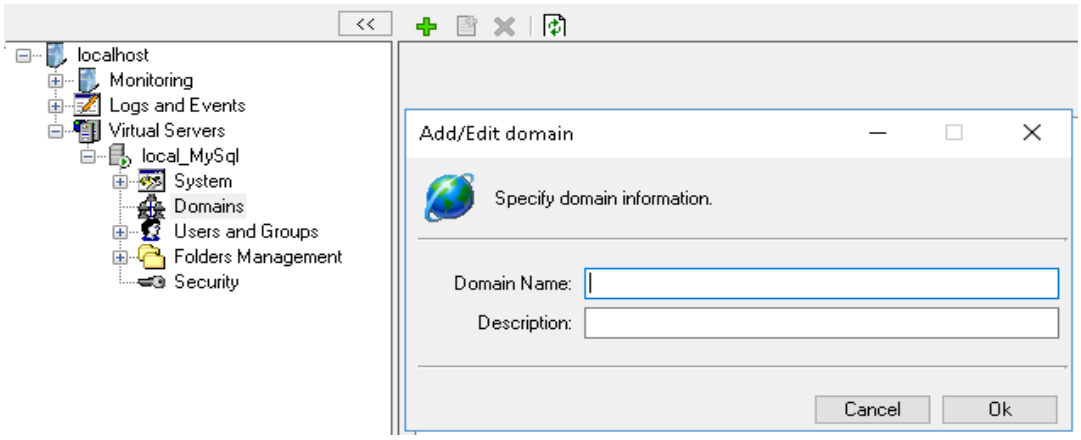
10. Fetch POP3. Make the proper changes to make it look like this and then click on Apply.



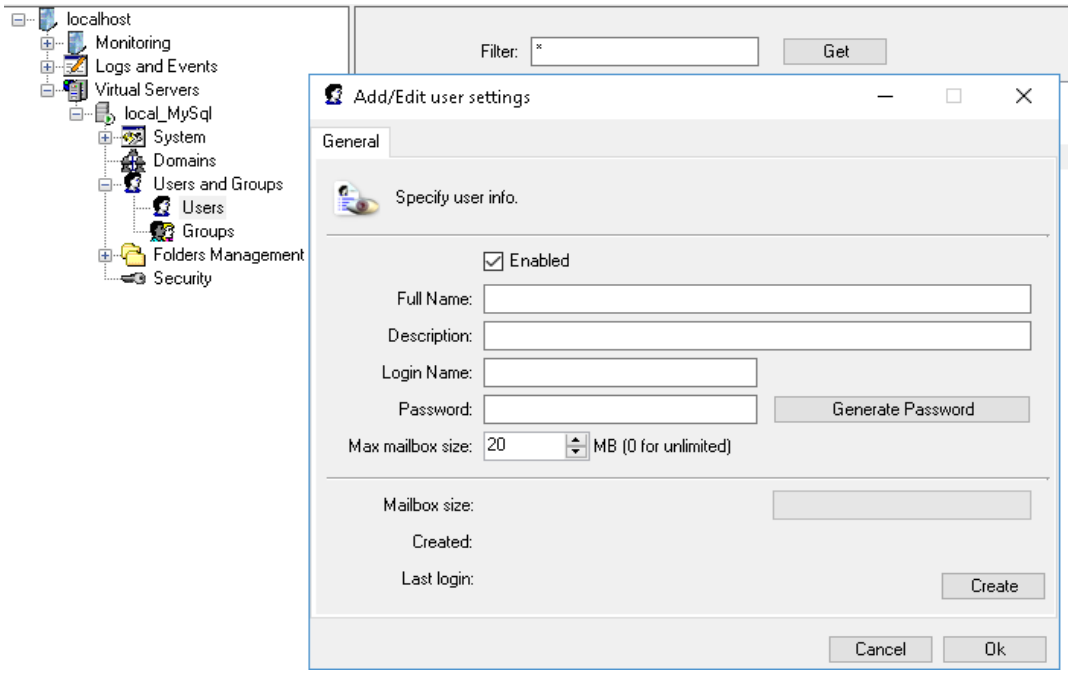
11. Logging. Make the proper changes to make it look like this and then click on Apply.



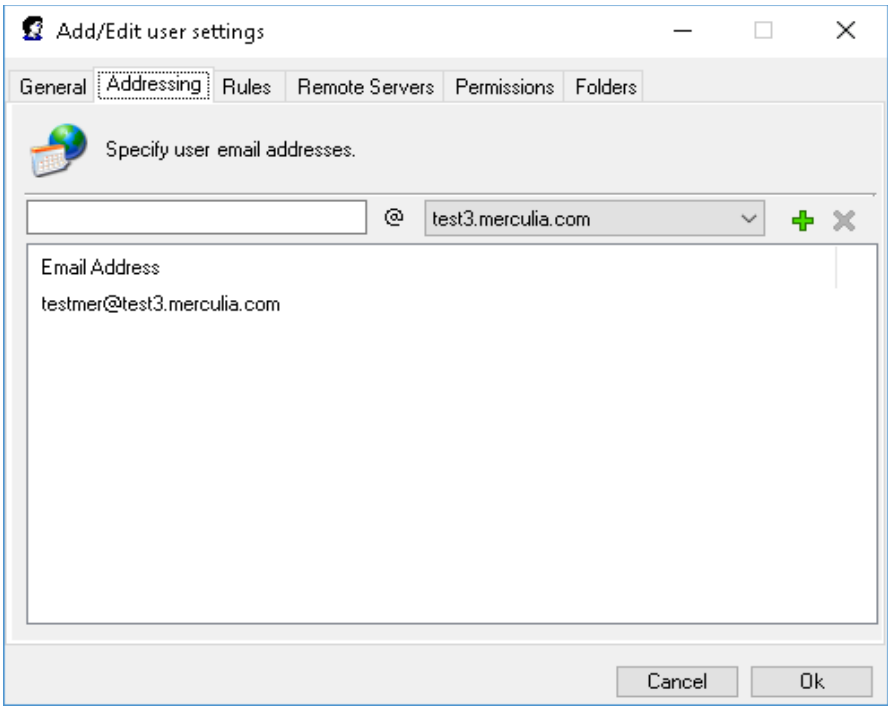
12. To create a new domain, go to the Domains node and then click on the plus icon on the right.



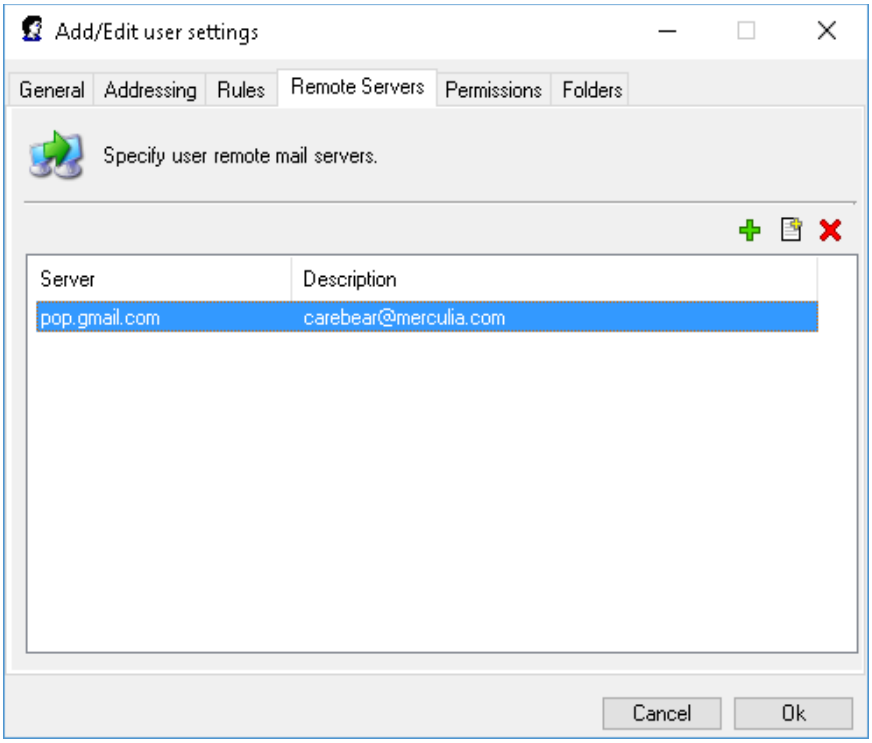
13. To create a new user, go to the Users and Groups node and then click on the plus icon on the right. Then provide the information and click on Create.

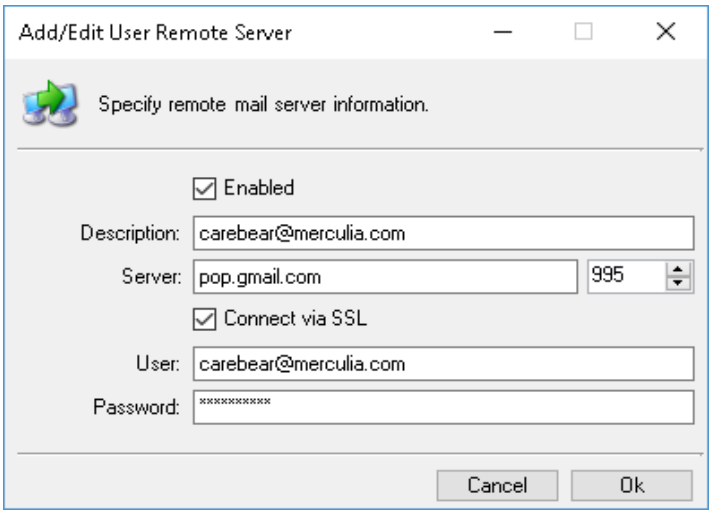


Here you can configure a local e-mail address on the domain you have just created.



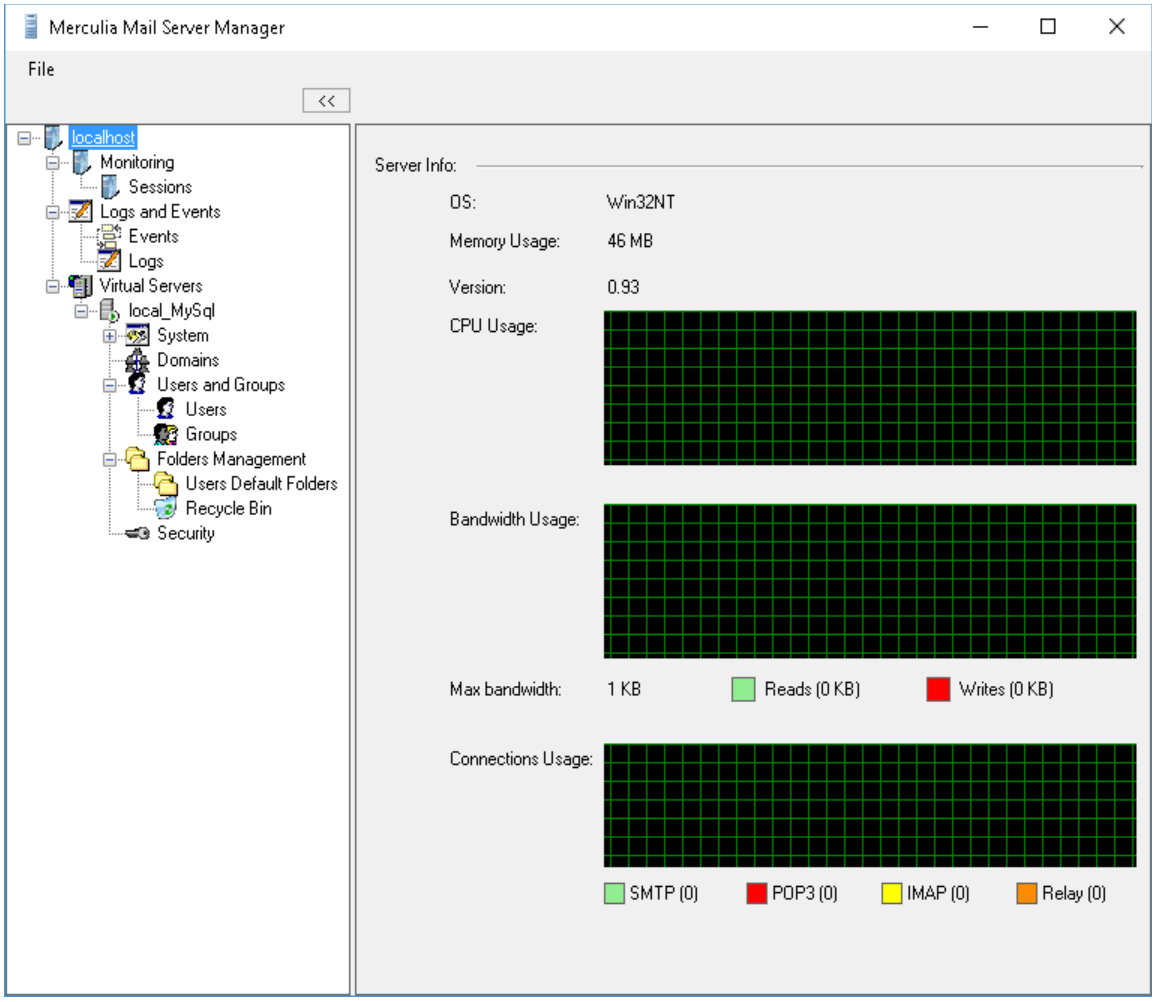
And also specify a POP3 e-mail address. Here's where you configure the GMail address.



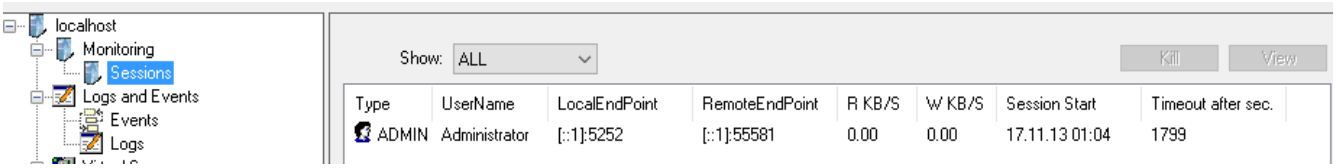


Notice that you may have to log into your e-mail address on a web browser to allow access to Gmail from this app.

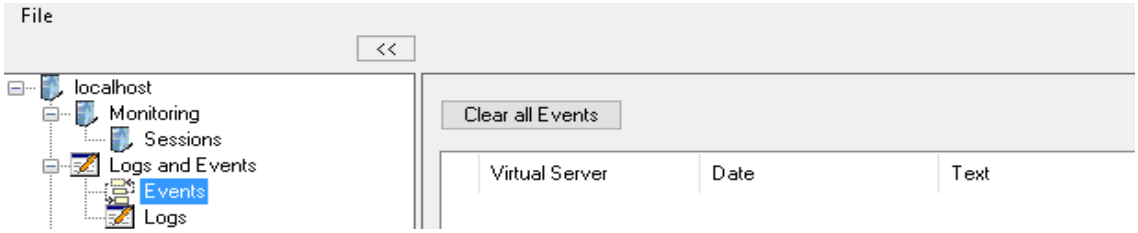
14. Performance. On this node, you can monitor the system performance.



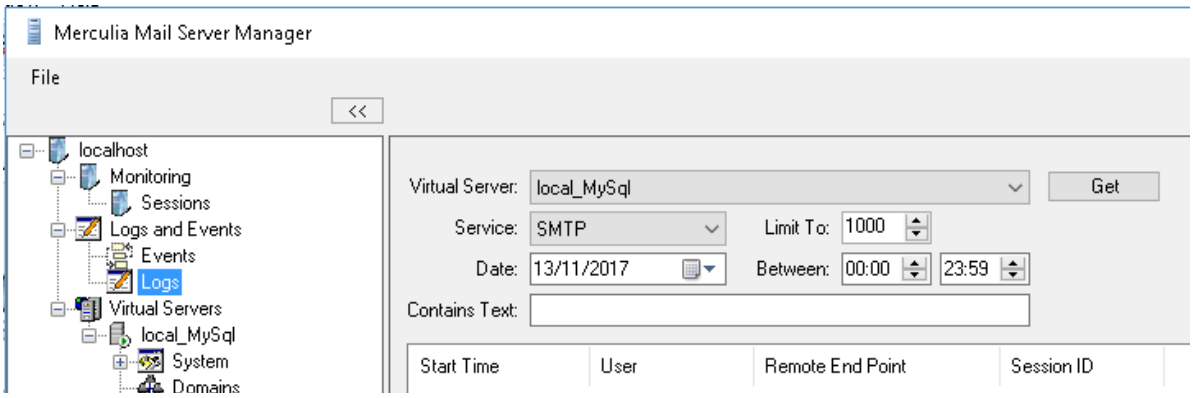
15. Sessions. Here you will find information on the active sessions.



16. Events. This is a log for errors.

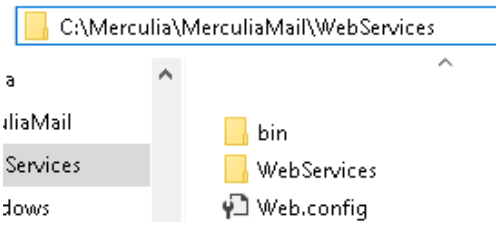


17. Logs. Here you can monitor the logs you configured on step 11.



Web services

1. Go to the installation folder and notice a subfolder named WebServices

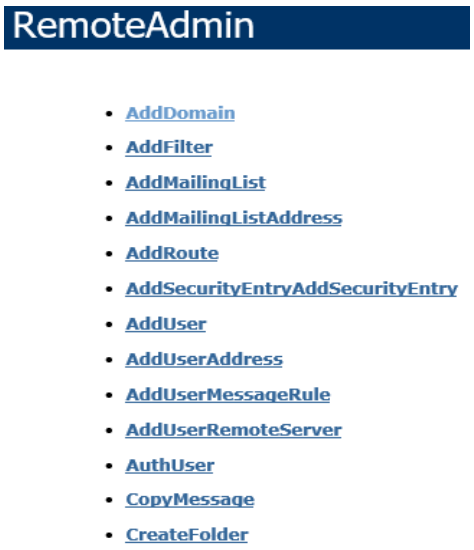


2. Create a new website on your IIS pointing to this folder or copy this folder as desired.

3. Modify the web.config file to specify your own connection string.

```
<configuration>
  <system.web>
    <compilation debug="true" targetFramework="4.6.1"/>
    <httpRuntime targetFramework="4.6.1"/>
  </system.web>
  <connectionStrings>
    <add name="DB" connectionString="Database=merculia_mail;Data Source=localhost;User Id=myuser;Password=mypassword"/>
  </connectionStrings>
</configuration>
```

4. Browse your website on a web browser. If it was configured correctly, you will be able to see the definition of the WebServices/RemoteAdmin.asmx webservice.



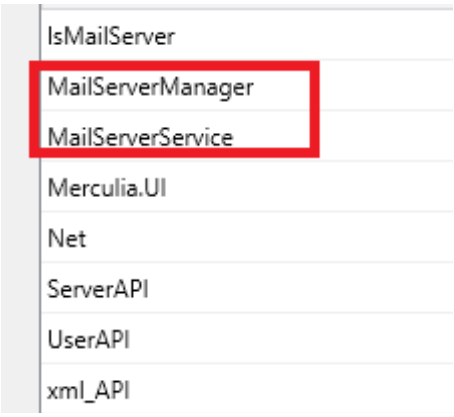
These web methods can be consumed via a SOAP client.

Running the code

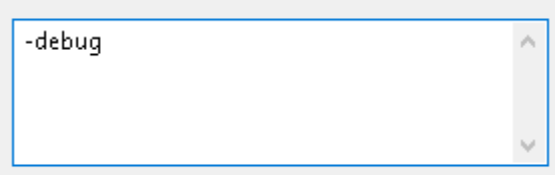
Visual Studio 2017 Community Edition is suggested for running/ modifying/ debugging.

1. Download the source code from https://github.com/norbertonava/emailserver/tree/master/Code

2. From Visual Studio, set the following two start up projects:



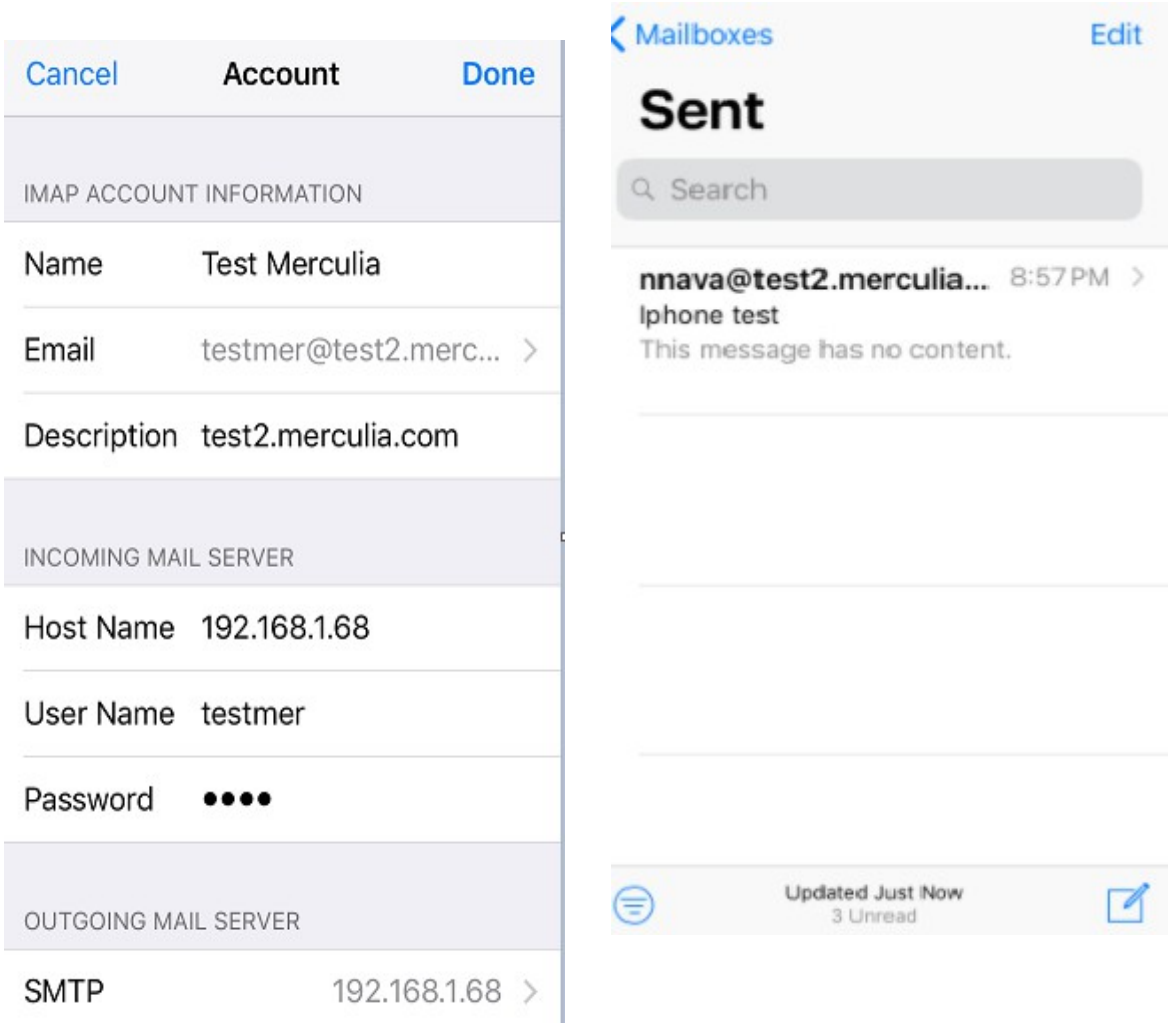
3. Right click on the MailServerService project and on the Debug tab, specify the following command line argument

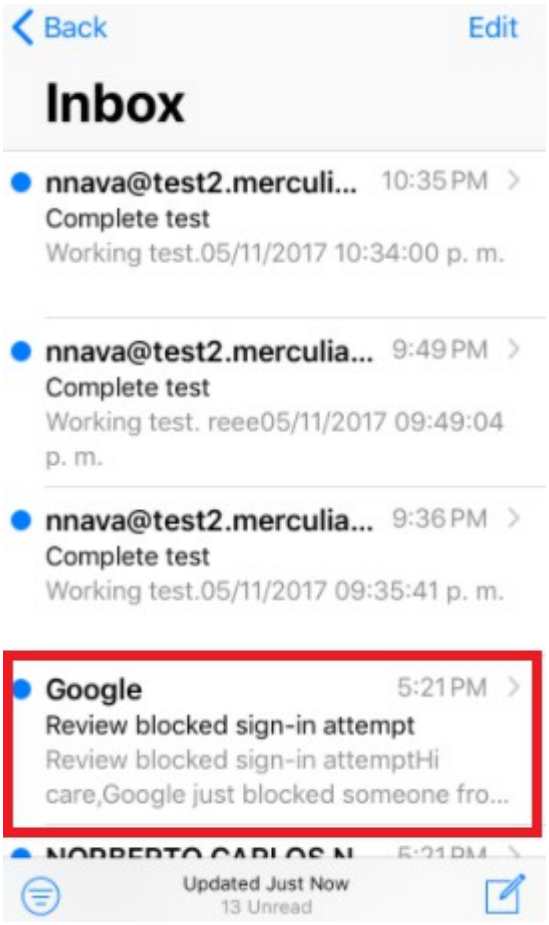


5. Start debugging.

Configuring a client

An iPhone can be configured to test the server for incoming and outgoing email messages. Just provide the information of the created accounts. Port for IMAP is 143. Port for SMTP is 25. No SSL authentication is required.





Notice that the message with subject “Review blocked...” was downloaded from the POP3 linked e-mail account.