# Gmail Error :The SMTP server requires a secure connection or the client was not authenticated. The server response was: 5.5.1 Authentication Required

Ask Question

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I am using following code to send email. The Code works correctly in my local Machine. But on Production server i am getting the error message

```
var fromAddress = new MailAddress("mymailid@gmail.com");
var fromPassword = "xxxxxx";
var toAddress = new MailAddress("yourmailid@yourdoamain.com");

string subject = "subject";
string body = "body";

System.Net.Mail.SmtpClient smtp = new System.Net.Mail.SmtpClient
{
    Host = "smtp.gmail.com",
    Port = 587,
    EnableSsl = true,
    DeliveryMethod = System.Net.Mail.SmtpDeliveryMethod.Network,
    UseDefaultCredentials = false,
    Credentials = new NetworkCredential(fromAddress.Address, fromPassword)

};

using (var message = new MailMessage(fromAddress, toAddress)
{
    Subject = subject,
    Body = body
})

smtp.Send(message);
```

And on my Gmail A/c I have received the following email after i ran the code from production server

> Hi ,
>
> Someone recently used your password to try to sign in to your Google Account mymailid@gmail.com. This person was using an application such as

to access your account. Please review the details of the sign-in attempt:

Friday, 3 January 2014 13:56:08 o'clock UTC IP Address: xxx.xx.xx.xxx (abcd.net.) Location: Philadelphia PA, Philadelphia, PA, USA

If you do not recognise this sign-in attempt, someone else might be trying to access your account. You should sign in to your account and reset your password immediately.

Reset password

If this was you and you are having trouble accessing your account, complete the troubleshooting steps listed at http://support.google.com/mail?p=client_login

Yours sincerely, The Google Accounts team

c#    .net    smtp    gmail

edited Dec 28 '14 at 16:23

GEOCHET
**18.6k**   15   66   91

asked Jan 3 '14 at 14:40

vcs
**1,406**   3   11   15

do you have the access of production server – Arshad Jan 3 '14 at 14:54

I dont have access to the production server – vcs Jan 3 '14 at 14:56

Turn off 2-step verification.. – Mangesh Jan 18 '15 at 5:41

Please, look at stackoverflow.com/questions/3485148 4/… – user5515846 Jan 20 '16 at 8:27

Also, make sure the google "Captcha" is disabled - this may be necessary if you are running the script on a remote server (not necessary when running on local machine): accounts.google.com/DisplayUnlockC aptcha – Jens May 17 '16 at 16:17

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**162**

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This generally happens when you try login from different time zone or IP Address Computer. Your production server and the mail id you have used both are in different time zone. Choose any of the one solution:

1) Log in to production server via remote access, and sign in to gmail once with your credentials. They will ask for the confirmation, confirm it and log out.

Or 2) log in gmail to your local computer, Follow this Link and choose review this activity and take proper actions.

edited Aug 11 '16 at 13:50

HEGDE
**498**   4   15

answered Jan 3 '14 at 15:06

Arshad
**7,436**   4   25   56

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17    A little comment: go to security.google.com/settings/security/ activity and here you'l see blocked connection from your code. Allow them and it should help in this case. – Alex Zhukovskiy Oct 2 '14 at 12:45

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56    This will also help a lot: google.com/settings/security/lesssec ureapps – George Oct 12 '14 at 2:23

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      Yes, the reason is 2 steps verification switched On for gmail account. Select App/Device and click Generate button support.google.com/accounts/answer /185833 – smily Dec 25 '15 at 15:34

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      Look at stackoverflow.com/questions/348514 84/… – user5515846 Jan 20 '16 at 8:27

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6     Also, make sure the google "Captcha" is disabled - this may be necessary if you are running the script on a remote server (not necessary when running on local machine): accounts.google.com/DisplayUnlock Captcha – Jens May 17 '16 at 16:18

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**When you try to send mail from code and you find the error "The SMTP server requires a secure connection or the client was not authenticated. The server response was: 5.5.1 Authentication Required", than the error might occur due to following cases.**

**case 1:** when the password is wrong

**case 2:** when you try to login from some App

**case 3:** when you try to login from the domain other than your time zone/domain/computer *(This is the case in most of scenarios when sending mail from code)*

**There is a solution for each**

**solution for case 1:** Enter the correct password.

**solution 1 for case 2**: go to security settings at the followig link *https://www.google.com/settings/security/lesssecureapps* and enable less secure apps . So that you will be able to login from all apps.

**solution 2 for case 2**:(see https://stackoverflow.com/a/9572958/52277) enable two-factor authentication (aka two-step verification) , and then generate an application-specific password. Use that newly generated password to authenticate via SMTP.

**solution 1 for case 3:** (This might be helpful) you need to review the activity. but reviewing the activity will not be helpful due to latest security standards the link will not be useful. So try the below case.

**solution 2 for case 3**: If you have hosted your code somewhere on

By using our site, you acknowledge that you have read and understand our Cookie Policy, Privacy Policy, and our Terms of Service.

once from the browser of the production server. This will add excpetioon for login to google and you will be allowed to login from code.

***But what if you don't have access to the production server.*** try the solution 3

***solution 3 for case 3:*** You have to enable login from other timezone / ip for your google account.

to do this follow the link *https://g.co/allowaccess* and allow access by clicking the continue button.

And that's it. Here you go. Now you will be able to login from any of the computer and by any means of app to your google account.

edited May 23 '17 at 12:02

Community ♦
**1**    1

answered Nov 3 '14 at 7:39

Roshan Parmar
**2,467**    1    7    6

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8    Solution 2! You little beauty! –
George Harnwell Apr 22 '15 at 14:55

2    lesssecureapps link above helped :) –
Gautam Jain Oct 30 '15 at 12:27

1    Solution 2 worked perfect charm! –
Venkat Nov 15 '15 at 10:19

3    YOU ARE THE MAN!!!! Worked for
me: solution 3 for case 3 – Thomas
Dec 22 '15 at 15:37  ✎

3    site hosted on azure need to follow
solution 3 for case 3: final link which
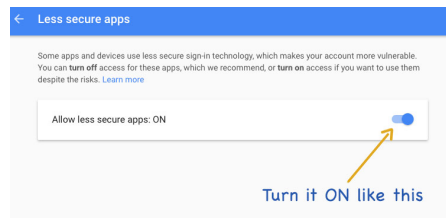help g.co/allowaccess – Ravi Anand
Jan 21 '16 at 14:14  ✎

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92

Its a security issue, Gmail by default prevents access for your e-mail account from custom applications. You can set it up to accept the login from your application.

This will take you to the following page

answered Jan 12 '15 at 10:36

Sayka
**5,758**   3   25   29

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2    Sayka is today's hero! Many thanks. –
     Bonus Kun Apr 4 '16 at 14:09 ✏

1    It works for me as well, Thanks
     @Sakya ! – Rahul Hendawe Sep 22
     '16 at 5:25

1    Also, if you have a custom domain,
     users first need to be enabled by
     domain administrator to allow access
     to less secure apps. If you are a
     domain admin, go to the following link
     to enable this
     admin.google.com/AdminHome#Servi
     ceSettings/… – user551113 Feb 20
     '17 at 11:51

2    This answer is great. It works like a
     charm. Thank you. – Thomas.Benz
     Mar 15 '17 at 19:48

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18

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After spending a couple of hours
today trying every solution here, I was
still unable to get past this exact error.
I have used gmail many times in this
way so I knew it was something
dumb, but nothing I did fixed the
problem. I finally stumbled across the
solution in my case so thought I
would share.

First, most of the answers above are
also required, but in my case, it was a
simple matter of ordering of the code
while creating the SmtpClient class.

In this first code snippet below, notice
where the "Credentials = creds" line

question even if you have everything else set up properly.

```
System.Net.Mail.SmtpClient client = ne
    {
        Host = Emailer.Host,
        Port = Emailer.Port,
        Credentials = creds,
        EnableSsl = Emailer.Requir
        UseDefaultCredentials = fa
        DeliveryMethod = System.Ne
    }
```

However, if you move the Credentials setter call to the bottom, the email will be sent without error. I made no changes to the surrounding code...ie...the username/password, etc. Clearly, either the EnableSSL, UseDefaultCredentials, or the DeliveryMethod is dependent on the Credentials being set first....I didn't test all to figure out which one it was though.

```
System.Net.Mail.SmtpClient client = ne
    {
        Host = Emailer.Host,
        Port = Emailer.Port,
        EnableSsl = Emailer.Requir
        UseDefaultCredentials = fa
        DeliveryMethod = System.Ne
        Credentials = creds
    }
```

Hope this helps save someone else some headaches in the future.

answered Dec 11 '15 at 20:54

user1011627
**1,278**   11   18

In my case, I had the same problem as yours, reorderring the code so that Credentials came last worked for me. – Dev Mar 24 '16 at 8:55

1   I can not believe it but it worked! I have enabled 2-step, because did not want to enable less secure flag, but till I put Credential last before Send it did not want to work. Incredible! – Čikić Nenad Feb 6 '17 at 14:47

This solves the problem. Thanks a lot! – hubert17 Sep 3 '17 at 7:36

4   The issue is that in `UseDefaultCredentials` setter there is this code: `this.transport.Credentials =`

looks like `SmtpClient` 's bug –
Tomasz Madeyski Nov 13 '17 at
14:21

@TomaszMadeyski this have to be an
answer instead of comment! that is my
problem... how the hell I can think that
if I set credentials on constructor and
then assign to a false value again
UseDefaultCredentials = false it
overrides the credentials... crazy!! but
that happens.... thanks youuuuu –
FabianSilva Feb 23 '18 at 10:16

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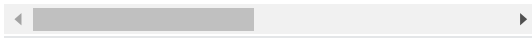
Hi I had the same issue,

what I've done to solve it. is to turn on
the less secure app. after connecting
to my gmail account. I entered this
link:
https://www.google.com/settings/secu
rity/lesssecureapps

Then I turn on the secure app and,
and the it worked. it has been said
also above

answered Mar 5 '15 at 13:18

Barak Rosenfeld
**204**    1    5    13

So what is the difference than your
answer for above answer ? Same
answer is given before you on Jan 12
'15 at 10:36. – Dush Oct 15 '18 at
11:21

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Just follow the step in the google
email and enable less secure apps.

edited Oct 29 '14 at 21:18
George Stocker ♦
**45.9k**    28    155    218

answered Oct 29 '14 at 18:00
Trung
**91**    1    1

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I have a previously-working code that
throws this error now. No issue on

1. Turn off 2-factor authentication
2. Set "Allow less secure apps" to ON
3. Login to your gmail account from production server
4. Go here as well to approve the login activity
5. Run your app in production server

Working code

```
public static void SendEmail(strin
{
    var client = new SmtpClient("s
    {
        Credentials = new NetworkC
        EnableSsl = true
    };

    client.Send("youremail@gmail.c
}
```
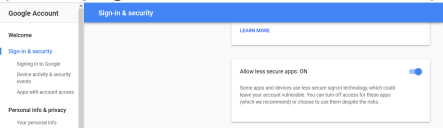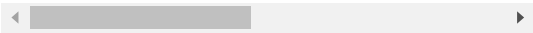
Turning off 2-factor authentication
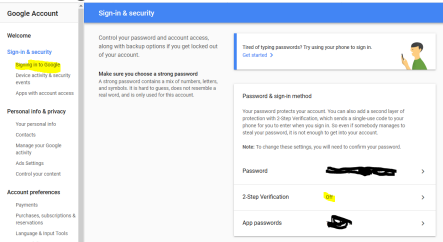


Set "Allow less secure apps" to ON
(same page, need to scroll to bottom)



edited Jun 9 '18 at 14:31

answered Jun 9 '18 at 14:08

Jeson Martajaya
**4,345**    6    36    44

I have faced the same problem. It happens when you turn on 2 Step Verification (MFA). Just Turn off 2 Step Verification and your problem should be solved.

6

**51.8k**   18   111   159

answered Jul 31 '14 at 16:02

Anik
**71**   1   1

I did not have two-step enabled for this account and had this issue. – Shiv Apr 24 '15 at 5:45

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**4**

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Below is my code.I also had the same error but the problem was that i gave my password wrong.The below code will work perfectly..try it

```csharp
MailMessage mail = new Mai
SmtpClient SmtpServer = ne
mail.From = new MailAddres
mail.To.Add("toaddress1@gm
mail.To.Add("toaddress2@gm
mail.Subject = "Password F
mail.Body += " <html>";
mail.Body += "<body>";
mail.Body += "<table>";
mail.Body += "<tr>";
mail.Body += "<td>User Nam
mail.Body += "</tr>";

mail.Body += "<tr>";
mail.Body += "<td>Password
mail.Body += "</tr>";
mail.Body += "</table>";
mail.Body += "</body>";
mail.Body += "</html>";
mail.IsBodyHtml = true;
SmtpServer.Port = 587;
SmtpServer.Credentials = r
System.Net.NetworkCredential("sendfrom
SmtpServer.EnableSsl = tru
SmtpServer.Send(mail);
```

You can refer it in my blog

edited May 13 '14 at 2:34

answered May 13 '14 at 2:12

Ganesh Pillai N
**61**   1   4

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i am using the same code which is working in my local machine but its not working on server. Getting error **The SMTP server requires a secure connection or the client was not authenticated. The server response was: 5.5.1 Authentication**

said : **We could see that you have configure third part SMTP (smtp.gmail.com) which will not support in our shared server environment. Due to excessive abuse of mail function or spamming problem, mail function is not supported. You can send email using PHPMailer, Which is very popular and often used.** but my site is build in mvc c#, so how can i use phpmailer ? – Akshay Chawla Jun 4 '17 at 15:15 ✏

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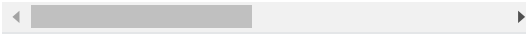
3

You need to turn on "Allow less secure apps" from here https://myaccount.google.com/lesssecureapps

answered Feb 3 at 6:47

Raj K
**45**  5

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2

I had the same problem for an application deployed to Microsoft Azure.

> SmtpException: The SMTP server requires a secure connection or the client was not authenticated. The server response was: 5.5.1 Authentication Required.

First I approved all unknown devices (some ip-addresses originating from Ireland) on the following page (signed in as the gmail user): https://security.google.com/settings/u/1/security/secureaccount
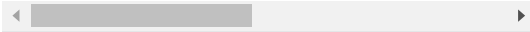
I used the following settings for the client:

```
var client = new SmtpClient("smtp.gmai
client.Port = 587;
client.EnableSsl = true;
client.UseDefaultCredentials = false;
client.Credentials = new NetworkCreden
```

It started working only after I set the following property on the smtp-client:

```
client.TargetName = "STARTTLS/smtp.gma
```

**133**   1   7

What worked for me was to activate the option for less secure apps (I am using VB.NET)

```
Public Shared Sub enviaDB(ByRef body
        Dim mail As New MailMessage()
        Dim SmtpServer As New SmtpClie
        mail.From = New MailAddress("f
        mail.[To].Add("to@gmail.com")
        mail.Subject = "subject"
        mail.Body = body
        Dim attachment As System.Net.M
        attachment = New System.Net.Ma
        mail.Attachments.Add(attachmer
        SmtpServer.Port = 587
        SmtpServer.Credentials = New S
        SmtpServer.EnableSsl = True
        SmtpServer.Send(mail)
    End Sub
```

So log in to your account and then go to google.com/settings/security/lesssecu reapps
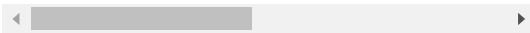
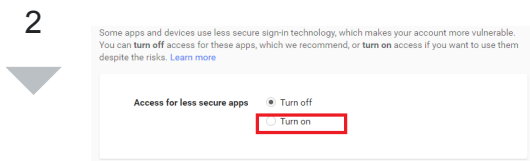answered Dec 2 '15 at 21:39

[Edgar]
**429**   2   11

1   The link is dead. – Zero3 Mar 18 '16 at 11:37

google.com/settings/security/lesssecu reapps – kipusoep Jan 15 '17 at 14:43

just turn on the setting of or gmail. see below given image:



edited Aug 3 '17 at 8:11

Alexandru Marculescu
**4,459**   6   24   39

answered Mar 12 '17 at 9:53

Rajesh Paliwal
**76**   4

**1**

I tried all of the suggestions found here, from enabling less secure apps, to trying port 587... nothing worked. Finally I just commented out the line `UseDefaultCredentials = false` . Everything worked if I didn't touch that boolean.

answered May 31 '17 at 18:06

**Kris Coleman**
**164**  1   9

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1    same here..i cant believe that single line took an hour from me! –
**Wahid Masud** Jun 7 '18 at 9:35

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**1**

A comment from Tomasz Madeyski is what fixed my problem... he tells that exists a bug on SetDefaultCredential, him says:

"The issue is that in UseDefaultCredentials setter there is this code: this.transport.Credentials = value ? (ICredentialsByHost) CredentialCache.DefaultNetworkCred entials : (ICredentialsByHost) null; which overrides credentials set by Credentials setter. For me it looks like SmtpClient's bug"

if you put
`smtpClient.UseDefaultCredentials = false`  after set credentials... this line set to null those credentials...

answered Feb 23 '18 at 10:21

**FabianSilva**
**153**  4   14

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**0**

I have really looked at a lot of ideas, the only solution was this way (works with different email Providers):

```
    try
  {
    ViewProgressbar("Try to cc
    string host = dsProvider.F
    int port = int.Parse(dsPro
    string[] email = von1.Spli
    string userName = (dsProvi
  "email[0]@email[1]")? email[0]+"@"+ema
```

```
5.5.1 Authentication Required."
        //System.Net.NetworkCreder
System.Net.NetworkCredential(userName,
        //System.Net.CredentialCac
        //cache.Add(host, port, "N
        ///cache.GetCredential(hos
        client.Credentials = new S
        client.Host = host;
        client.Port = port;
        client.EnableSsl = true;
        client.Send(message);
        ViewProgressbar();
    }
    catch (SmtpException ex)...
```
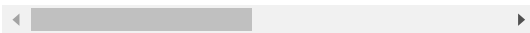
answered May 9 '14 at 11:21

[Walter](#)
**11**   2

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I'm a google apps for business subscriber and I spend the last couple hours just dealing with this, even after having all the correct settings (smtp, port, enableSSL, etc). Here's what worked for me and the web sites that were throwing the 5.5.1 error when trying to send an email:

1. Login to your admin.google.com

2. Click SECURITY <-- if this isn't visible, then click 'MORE CONTROLS', and add it from the list

3. Click Basic Settings

4. Scroll to the bottom of the Basic Settings box, click the link: 'Go to settings for less secure apps'

5. Select the option #3 : Enforce access to less secure apps for all users (Not Recommended)

6. Press SAVE at the bottom of the window

After doing this my email forms from the website were working again. Good luck!

[edited Nov 20 '15 at 17:30](#)

answered Nov 20 '15 at 17:08
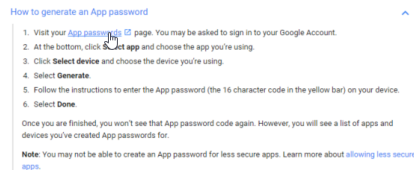RichieMN

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You might need to create/generate a specific APP password from gmail. you app or script will then use this new password instead of your regular password. Your regular password will still work fine for you.

That is what did it for me. I still used the same email account but had to generate a new app specific password.

https://support.google.com/accounts/answer/185833?hl=en

How to generate an App password                                        ⌃

1. Visit your App passwords ⤴ page. You may be asked to sign in to your Google Account.
2. At the bottom, click Select app and choose the app you're using.
3. Click Select device and choose the device you're using.
4. Select Generate.
5. Follow the instructions to enter the App password (the 16 character code in the yellow bar) on your device.
6. Select Done.

Once you are finished, you won't see that App password code again. However, you will see a list of apps and devices you've created App passwords for.

Note: You may not be able to create an App password for less secure apps. Learn more about allowing less secure apps.

Basically you can do it here: https://security.google.com/settings/security/apppasswords

edited Jan 20 '16 at 20:38

answered Jan 20 '16 at 20:33

samiup
126   1   4

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If your are using gmail.

- 1-logon to your account

  2- browse this link

  3- Allow less secure apps: ON

Enjoy....

answered Mar 12 '18 at 12:56

Muhammad Azeem
431   1   5   18

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You should **disallow less secure apps to access your google account**.

to do:

answered Apr 24 '18 at 7:17

MohammadSoori

**578**   5   7

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**NOVEMBER 2018,** have tried everything above with no success.

0

Below is the solution that worked finally. Unfortunately it's not using SSL, but it works!!!

```csharp
var fromAddress = new MailAddress(asd
var toAddress = new MailAddress("tosen

const string subject = "Subject";
const string body = "Body";

var smtp = new SmtpClient
{
    Host = "aspmx.l.google.com",
    Port = 25,
    EnableSsl = false
};
using (var message = new MailMessage(1
{
    Subject = subject,
    Body = body
})
{
    smtp.Send(message);
}
```
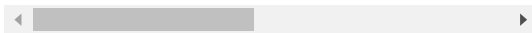
answered Nov 29 '18 at 16:52

InGeek

**664**   2   11   27

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◄ [                    ]              ►

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dont put break-point before await smtp.SendMailAsync(mail);

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:)

when it waits with a break point giving this error when i remove break point it has worked

answered Dec 6 '18 at 21:14

dewelloper

**147**   15

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I used all of the above mentioned solutions but it finally worked only after i enabled IMAP Access from

Of course, the points in the other
solutions were required too.

answered Sep 28 '15 at 13:07

AndroidMechanic - Viral
Patel

**18.2k**   15   53   87

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This didn't help me. Enabling IMAP
just enables you to read Gmail email
messages from other mail clients like
Outlook, Thunderbird. – kimbaudi Oct
11 '16 at 22:20

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**-5**

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try changing the host, this is the new
one, I got this configuring mozilla
thunderbird

```
Host = "smtp.googlemail.com"
```

that work for me

edited Dec 8 '15 at 9:10

Vivek S.
**10.8k**   5   35   68

answered Dec 15 '14 at 16:40

patogalarzar
**9**

◄    ▬▬▬▬▬▬    ►

**protected** by Community ♦ Feb 26
'15 at 9:45

Thank you for your interest in this
question. Because it has attracted low-
quality or spam answers that had to be
removed, posting an answer now
requires 10 reputation on this site (the
association bonus does not count).

Would you like to answer one of these
unanswered questions instead?