

CS 580 Client-Server Programming  
Spring Semester, 2006  
Doc 20 Sending Email  
Apr 13, 2006

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# References

JavaMail API

Ruby API

VW Smalltalk API

Rohan SMTP Server

Sending Email

Java

Smalltalk

Ruby

# SMTP

Simple Mail Transport Protocol

Common Ports

25 Official

587 authentication

Rohan

25 - no authentication, from campus machines only

587 - authentication with username & password

send mail to rohan users only - no authentication needed

You need to change

address

host

port

in following examples

# Java

## Required API

### Java Mail

<http://java.sun.com/products/javamail/>

### JAF (JavaBeans Activation Framework)

<http://java.sun.com/products/javabeans/glasgow/jaf.html>

## Docs

<http://java.sun.com/products/javamail/javadocs/index.html>

Included in JavaMail download

### JavaMail Quick Start, Tony Loton

<http://www.javaworld.com/javaworld/jw-10-2001/jw-1026-javamail.html>

```
import java.util.*;
import javax.mail.*;
import javax.mail.internet.*;
```

## Java Example - no password

```
public class SampleEmail {
    public static void main(String[] args) {
        String to = "whitney@rohan.sdsu.edu";
        String from = "whitney@cs.sdsu.edu";
        String host = "cs.sdsu.edu";
        Properties mailSettings = new Properties();
        mailSettings.put("mail.smtp.host", host);
        mailSettings.put("mail.smtp.port", "8025");
        Session session = Session.getDefaultInstance(mailSettings);
        try {
            MimeMessage msg = new MimeMessage(session);
            msg.setFrom(new InternetAddress(from));
            InternetAddress[] address = {new InternetAddress(to)};
            msg.setRecipients(Message.RecipientType.TO, address);
            msg.setSubject("Mail Example");
            msg.setSentDate(new Date());
            msg.setText("Hello world");
            Transport.send(msg);
        }
        catch (Exception mailError){
            mailError.printStackTrace();
        }
    }
}
```

Don't forget to change  
to  
from  
host  
port

```
import java.util.*;
import javax.mail.*;
import javax.mail.internet.*;
```

# Java with password

```
public class SampleEmail {
    public static void main(String[] args) {
        String to = "whitney@rohan.sdsu.edu";
        String from = "whitney@rohan.sdsu.edu";
        String host = "rohan.sdsu.edu";
        Properties mailSettings = new Properties();
        Session session = Session.getDefaultInstance(mailSettings);
        try {
            MimeMessage msg = new MimeMessage(session);
            msg.setFrom(new InternetAddress(from));
            InternetAddress[] address = {new InternetAddress(to)};
            msg.setRecipients(Message.RecipientType.TO, address);
            msg.setSubject("Mail Example");
            msg.setSentDate(new Date());
            msg.setText("Hello world");
            Transport withPassword = session.getTransport("smtp");
            withPassword.connect(host, 587, "whitney", "password");
            msg.saveChanges();
            withPassword.sendMessage(msg, msg.getAllRecipients());
            withPassword.close();
        }
        catch (Exception mailError){ mailError.printStackTrace(); } }
}
```

Don't forget to change  
to  
from  
user name  
password



# Java - Debugging

```
Session session = Session.getDefaultInstance(mailSettings);  
session.setDebug(true);
```

prints out server conversation

# Sample Session

```
client EHLO Al.local
250-rohan.sdsu.edu Hello ip68-7-92-191.sd.sd.cox.net [68.7.92.191], pleased to meet you
250-ENHANCEDSTATUSCODES
250-PIPELINING
250-AUTH LOGIN PLAIN
250-DELIVERBY
250 HELP
client MAIL FROM:<whitney@rohan.sdsu.edu>
250 2.1.0 <whitney@rohan.sdsu.edu>... Sender ok
client RCPT TO:<whitney@rohan.sdsu.edu>
250 2.1.5 <whitney@rohan.sdsu.edu>... Recipient ok
client DATA
354 Enter mail, end with "." on a line by itself
client Message-ID: <849515.01144947917509.JavaMail.whitney@Al.local>
| Date: Thu, 13 Apr 2006 10:05:16 -0700 (PDT)
| From: whitney@rohan.sdsu.edu
| To: whitney@rohan.sdsu.edu
| Subject: Mail Example
| MIME-Version: 1.0
| Content-Type: text/plain; charset=us-ascii
| Content-Transfer-Encoding: 7bit
|
| Hello world
client .
250 2.0.0 k3DH4MUP027301 Message accepted for delivery
client QUIT
```

# Ruby - No password, standard

just  
text

```
require 'net/smtp'
msgstr = <<END_OF_MESSAGE
From: Roger Whitney <whitney@cs.sdsu.edu>
To: A Friend <whitney@rohan.sdsu.edu>
Subject: Sample Message
Date: Wed, 12 Apr 2006 16:26:43 +0900
```

```
This is a test message.
END_OF_MESSAGE
```

```
Net::SMTP.start('rohan.sdsu.edu', 587) do |smtp|
  smtp.send_message msgstr, 'whitney@rohan.sdsu.edu', 'whitney@rohan.sdsu.edu'
end
puts "done"
```

Change  
smtp.send  
from  
to

from

to

# Ruby - with Password

```
require 'net/smtp'
msgstr = <<END_OF_MESSAGE
From: Roger Whitney <whitney@cs.sdsu.edu>
To: Roger Whitney <whitney@rohan.sdsu.edu>
Subject: About my death
Date: Sat, 16 Jul 2005 16:26:43 +0900
```

Change those  
settings!

Don't believe everything you read.

END\_OF\_MESSAGE

smtp            port            Sending  
                                 machine            account

```
Net::SMTP.start('rohan.sdsu.edu', 587, 'cs.sdsu.edu', 'whitney', 'password', :login) do |smtp|
  smtp.send_message msgstr, 'whitney@rohan.sdsu.edu', 'whitney@cs.sdsu.edu'
end
puts "done"            Message            from            to
```

# VW Smalltalk - Load SMTP Parcel

Change those  
settings!

```
| message smtpClient |  
message := MailMessage newTextPlain.  
message  
  from: 'whitney@rohan.sdsu.edu';  
  to: 'whitney@rohan.sdsu.edu';  
  subject: 'Sample Mail from ST';  
  text: 'This is a test'.  
smtpClient := SimpleSMTPClient host: 'rohan.sdsu.edu' port: 587.  
smtpClient sendMessage: message
```