# SPAMJADOO INSTALLATION GUIDE

## Prepared By

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## Introduction

SpamJadoo is the only technology that is engineered to solve the root cause of spam. Rejected spam is stopped before it is even sent to receiver. The resulting benefit is that spammers discard emails as they are protected by SpamJadoo as a result of it, bandwidth is liberated because no spam is transmitted at any point over the network. For the ISP, whose networks no longer carry spam, and customers are rewarded for loyalty because the longer they stay with the same ISP, the fewer spammer databases they will be listed on.

Only 'SpamJadoo' actually prohibits spammers from sending spam. We feel it is the one technology that can actually eliminate the spam problem, permanently.

The technology used by the 'SpamJadoo' is, that its server runs on a Linux platform and operates as a "Primary Mail Exchanger (MX)" mail relay, which means that when others try to send email, it is first contacted with the server, as it works as first server and then comes in inbox.

'SpamJadoo' can be seen as a regular email server, that accepts email and also sends email. It also keeps track of email addresses that it can accept email for. However, it works with email servers and does not replace their other functions.

Although the SpamJadoo becomes your domain's "Primary MX", i.e it is the first server that accepts all outside email, it does NOT force itself upon all the email addresses for their domain. SpamJadoo can protect as few as 1 or as many as all the email addresses for a given domain.

Both end-users and administrators control SpamJadoo via its Web-based "Dashboard" module that can be accessed via Internet Explorer version 5 or higher.

## Prerequisite and Initial Configuration

### ♣ Minimum Hardware Configuration

| Component | | |
|---|---|---|
| Processor | Pentium IV | |
| Hard Disk Space | 40 GB | |
| Memory | 512 MB RAM | 1 GB or More (for better performance) |
| Display | SVGA monitor (1024 by 768) | |
| CD-ROM Drive | 52x or faster | |

### ♣ Minimum Server Software Configuration

| Component | |
|---|---|
| Operating System | Linux (Recommended Mandrake 9.2 Kernel 2.85) |
| Technology | Java 1.4.0_01 and Above |
| Database | Postgresql 7.4 and Above |
| Web | Orion 2.0.2 |

Software Installation

⬥Deployment Process

Informally, the term software deployment refers to all the activities that make a software system available to its users.

The software deployment process will start after successful installation of Mandrake Linux 9.2 Kernel 2.85 (FULL INSTALL) and is as follows. :

The configuration of Spamjadoo requires following while installation:

1. Orion 2.0.2(Web Server)

   Orion Server should be installed in /home directory i.e. /home/orion

   Download Stable Orion Server from http://www.orionserver.com/

2. Java 1.4.0_01 and above for Linux (use rpm (j2sdk-1_4_2_03-linux-i586.rpm) based installation). Install rpm by rpm –ivh <filename> command

   Download JDK for Linux from

   http://java.sun.com/j2se/1.4.2/download.html

   JDK Path should be set.

   PATH = /usr/java/j2sdk1.4.2_03/bin

   JAVA_HOME = /usr/java/j2sdk1.4.2_03

3. Postgresql 7.4  Database (use rpm (postgresql-7.4.1-1PGDG.i386.rpm) based installation). Install rpm by rpm –ivh <filename> command

   Download Postgres 7.4 rpm from http://rpmfind.net

   Postgresql should be running.

   Type this command of sequence on prompt

   ps –ef | grep postmaster

   It will give you a postmaster entry.

```
root@egor:~                                                                    _ □ ×
[root@egor root]# ps -ef | grep postmaster
postgres  5221     1  0 May02 ?        00:00:00 /usr/local/pgsql/bin/postmaster -i -D /usr/local/pgsql/data
root     27026 26712  0 09:40 pts/3    00:00:00 grep postmaster
[root@egor root]#
```

STEPS TO FOLLOW

✦Installation Process

First you should login as a root (which should have all the rights of the system administrator) in your machine then, follow the following steps:

INSTALLATION THROUGH TAR

1. Make a directory in your machine like spamjadooSetup.
2. Copy the spamjadoo_setup.tar file to your above created directory.
3. Untar (tar –xvf spamjadoo_setup.tar *) the spamjadoo_setup.tar file in your current directory.
4. Execute the shell script sh spamjadoosetup.sh to install the Spamjadoo.
5. It will check for the Utility for Querying DNS Name Servers, Hard Disk Space and Memory and put into the install.log file.
6. It will check for the Orion web server path and the JDK path.
7. It will ask you about Orion web server path, if Orion is not in /home directory, then provide the Orion web server path of your system.
8. Then it will ask for JDK path, if not found, provide the JDK path also.
9. After this it will ask for the postgresql database, if it is already exist in your system, it will inform you and ask to overwrite, clicking on yes will create the new database otherwise it will use existing one.
10. It will also ask you about Domain settings , in which you have to enter the following details:

    (Replace datainfosys.net with your desired domain)

    Domain Name (e.g. datainfosys.net)

    SMTP IP address (e.g.  202.157.79.1)

    POP3 IP address (e.g.  202.157.79.101)

    Spamjadoo will deliver valid email to the POP server, if you want to pass the emails through Antivirus Server, please give IP of that server. The AntiVirus server must support Post Office Protocol and SMTP.

    Domain Transformation (e.g. othervalidpopdomain.net), if no entry for domain transformation then enter above domain (datainfosys.net).

Authentication IP By default enter same POP3 server IP.

Authentication Scheme Enter 0 for [UserName@DomainName] and 1 for [UserName] Only.

In Admin settings, you have to enter the details like:

Admin First name

Admin Last name

Admin ID (it is the username of that email id which you are having at the domain specified above. e.g. [abc@datainfosys.net](abc@datainfosys.net) , so just write abc)

11. If you have installed all the software correctly, it will give you the message of successful installation.

12. After installation, one installation log file will be created in the same directory named as install.log

## Un-Installation Process

1. If you wish to uninstall the software execute the sh uninstallspamjadoo.sh

2. This command will remove all the files (including the database) related to the Spamjadoo from your system.

## File and Folder Description

TAR file contains the following files and folders:

1. Dashboard folder

   It contains all the necessary folders and JSP files to run dashboard module.

2. Server folder

   Folder contains all the necessary folders, .class files and server configuration file to run SpamJadoo server.

3. spamjadoosetup.sh (file)

   Main setup file which will call other configuration files.

4. setlocal.sh (file)

   This is a shell script that configure orion web server for spamjadoo and creates Linux user.

5. crtdbusr.sh (file)

   Shell script that creates database user (i.e. spamjadoo) and database (i.e. spamjadoodb).

6.  crtdbobj.sh (file)

    Shell script that creates database objects for Spamjadoo.

    (Note: please set the path of psql bin in PGBIN= and psql path in

    psql= variable for the above two files.)

7.  spamjadoo-web-site.xml (file)

    This is a file which is copied to the required destination (/orion/config/)

    when you run the spamjadoosetup.sh.

8.  uninstallspamjadoo.sh (file)

    Shell script that uninstall the Spamjadoo Software.

9.  dropuserdb.sh (file)

    Shell script that drops the database user and database objects.

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## Command Line Process to Check and Maintain the Server

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**You must be logged in as <u>root</u> on the Server.**

<u>POSTGRES START/STOP PROCESS</u>

How to check Postgres is running or not

Type this command of sequence on prompt

ps **–**ef | grep postmaster

It will give you a postmaster entry. See below

```
root@egor:~                                                                    _|□|×|
[root@egor root]# ps -ef | grep postmaster
postgres  5221    1  0 May02 ?        00:00:00 /usr/local/pgsql/bin/postmaster -i -D /usr/local/pgsql/data
root     27026 26712  0 09:40 pts/3   00:00:00 grep postmaster
[root@egor root]#
```

How to Start Postgres Database

Type this command of sequence on prompt

su postgres -c '/usr/local/pgsql/bin/pg_ctl  start -D /usr/local/pgsql/data'

How to Stop Postgres Database

Type this command of sequence on prompt

su postgres -c  '/usr/local/pgsql/bin/pg_ctl  stop **–**m fast  -D
/usr/local/pgsql/data'

IF POSTGRES IS INSTALLED THROUGH RPM THEN USE THESE COMMAND
FOR POSTGRES START AND STOP

For Start,
/etc/rc.d/init.d/postgresql start
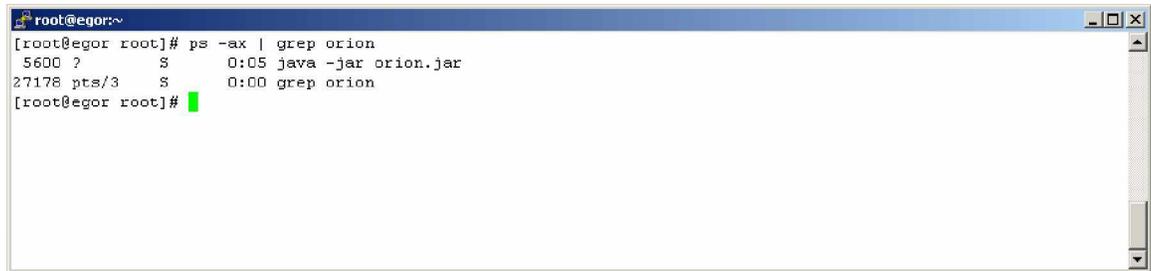
For Stop,
/etc/rc.d/init.d/postgresql stop

ORION START/STOP PROCESS

How to check Orion is running or not

Type this command of sequence on prompt

ps –ax | grep orion

If it is Orion Web Server is running then it will give you a java –jar orion.jar entry. See below

```
root@egor:~                                                                    _|□|×|
[root@egor root]# ps -ax | grep orion
 5600 ?        S       0:05 java -jar orion.jar
27178 pts/3    S       0:00 grep orion
[root@egor root]#
```
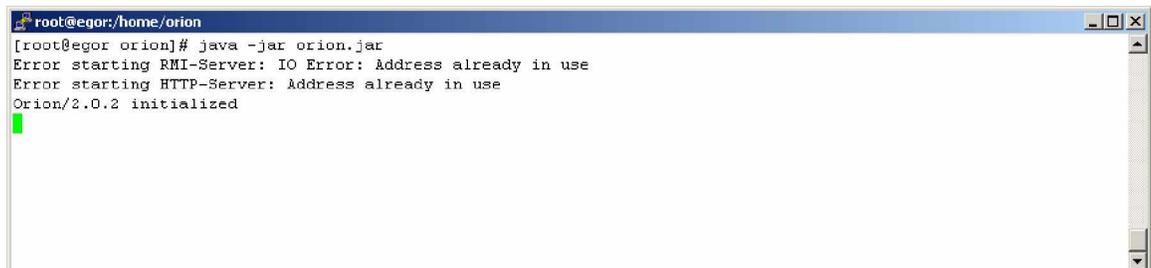
If it is Orion Web Server is not running then you will not be able to the home page of Dashboard.

How to Start Orion Web Server

Type this command of sequence on prompt (first go to the orion home directory).

cd /home/orion
java –jar orion.jar

When it will start it gives you Orion/2.0.2 initialized message on prompt

```
root@egor:/home/orion                                                          _|□|×|
[root@egor orion]# java -jar orion.jar
Error starting RMI-Server: IO Error: Address already in use
Error starting HTTP-Server: Address already in use
Orion/2.0.2 initialized
```

How to Stop Orion Web Server

Press CTRL + c to stop Orion Web Server on the above screen.
                OR
Killed by Process Id

Final Check
The Screen on the console should look like below.

Login as: root
Sent username "root"
root@66.128.32.66's password:
Last login: Tue May 4 11:08:44 2004 from 202.157.65.10
[root@egor root]# ps -ax |grep java
31226 ?        S      0:00 java z
31227 ?        S      0:00 java y
31228 ?        S      0:00 java -jar orion.jar
31229 ?        S      0:24 java xv
31230 ?        D      0:03 java xy
1714 pts/2    S      0:00 grep java

Log Details

Your can see the logs of incoming, forward, retry and bounce threads in the following directory with the name of  antispam.log, forward.log, retry.log and bounce.log.

/home/spamjadoo/server

[root@egor root]# ps -ax |grep postg
 5224 ?        S      0:00 postgres: stats buffer process
 5225 ?        S      0:00 postgres: stats collector process
 5583 ?        S      1:25 postgres: spamjadoo spamjadoodb 66.128.32.66 id
 1722 pts/2   S      0:00 grep postg
[root@egor root]#

SPAMJADOO SERVER START/STOP PROCESS

> First you reached to the default directory of Spamjadoo Server i.e. /home/spamjadoo/server then,
>
> Execute the start shell script by following command
> sh start or ./start <name of the administrator>
>
> It will kill the existing Spamjadoo Server if server is running and restart Spamjadoo Server on Port 25.

FILE STRUCTURE/STORAGE

The default installation is /home/spamjadoo. You will get two directories out here:

1. SERVER

   Server directory includes following things:

   Sub Directories –

   1. InBox: It will store incoming mails in the form of file.
   2. Undelivered: It will store those mails which will be bounced to the sender's.
   3. org: Postgres Database Driver

   CLASS files and .TXT Files.

   Read all .txt files in details to understand the functionality of .txt files.

   ServerConfig.txt

   [Spamjadoo Configuration File]
   # -----------------------------------------------------------------------
   # Spamjadoo Server Configuration File
   # -----------------------------------------------------------------------
   #
   # This file consists of lines of the form:
   #
   #   name=value
   #
   # (The '=' is optional.) Comments are introduced
   # with '#' anywhere on a line. The complete list of option names and
   # allowed values can be found in the Spamjadoo Server Configuration
   Documentation.
   # The commented-out settings shown in this file represent the default values.
   #
   # This file is read by Spamjadoo Server on startup. Do not change the name
   # in this file.
   # -----------------------------------------------------------------------


   # Configuration file for Spamjadoo Server.This files contains
   # necessary parameters to start Spamjadoo Server.
   # Defualt Spamjadoo SMTP Server Port, make sure it is not used
   # by any other process like sendmail or postfix etc.
   Smtp-Port=25

   # No of concurrent connection Spamjadoo will be allowed to open.
   Max-Threads=50

   # No of RCPT TO in a particular email allowed, more than that
   # will be treated as SPAM

Max-Recipients=10

# Postgres Database Connection Parameters
# DB-ConnString=DriverType:DriverForPostgres://hostname/DatabaseName
DB-ConnString=jdbc:postgresql://localhost/spamjadoodb

# Database UserName
DB-Username=spamjadoo

# Database Password
DB-Password=c3BhbWphZG9v

# It Contains the Black Listed Domains Entry File (BlackListDomain.txt)
BlackDomainFile=BlackListDomain.txt

*For Example:*

*<domain>*
*#freeadvbanners.com  - to block particular domain*
*#anotherexample.com$ - to block all the emails from that domain and*
*subdomains*
*#attbi.com$*
*</domain>*

# It Contains the Black Listed IP Entry File (BlackListIp.txt )
BlackIpFile=BlackListIp.txt

*For Example*

*<IpRange>*
*#202.157.79.6-202.157.79.7*
*</IpRange>*

# It Contains the White Listed Domain Entry File (WhiteListDomain.txt )
WhiteDomainFile=WhiteListDomain.txt

*<domain>*
*#dil.in  - allow domain*
*#datainfosys.net$ - to allow all the emails from that domain and*
*subdomains*
*</domain>*

# It Contains the White Listed IP Entry File (WhiteListIp.txt)
WhiteIpFile=WhiteListIp.txt

*For Example*

*<IpRange>*
*#202.157.79.10-202.157.79.12*
*</IpRange>*

# It Contains the Black Listed Banner Entry File (BlackListBanner.txt)
BlackBannerFile=BlackListBanner.txt

*For Example*

*<banner>*
*# mta-v25.level3.mail.yahoo.com*
*</banner>*

# It Contains the White Listed Banner Entry File (WhiteListBanner.txt)
WhiteBannerFile=WhiteListBanner.txt

*For Example*

*<banner>*
*# SpamJadoo Antispam SMTP Service by http://datainfosys.net*
*</banner>*

# It Contains the list of External SMTP Servers Allow to Relay for Internal
Configured Domains. (HostAllowed.txt )
HostFile=HostAllowed.txt

*For Example:*

*<IpRange>*
*202.157.64.0-202.157.95.254*
*10.11.12.0-10.11.12.254*
*202.131.136.56-202.131.136.62*
*203.197.196.128-203.197.196.158*
*66.139.78.94-66.139.78.94*
*202.131.133.128-202.131.133.134*
*10.11.0.0-10.11.31.254*
*10.11.96.0-10.11.127.254*
*</IpRange>*

WhiteListEmail.txt

# Any email received from the following email id or email id pattern will be
treated as FRIEND.
# Example: antispam@dil.in
# Example: shiv*@dil.in
# WhiteListEmail Entry will override the BlackListEmail Rule
# Please do not change the syntax <email> </email>, it will not work as
desired.

*<email>*
*# *shiv*@datainfosys.net*
*# antispam*@dil.in*
*# *deepak*@dil.in*
*</email>*

BlackListEmail.txt

# Any email received from the following email id or email id pattern will be treated as SPAM and 554 response [Connection Terminated – id found in BlackListEmail.txt] will be sent to the MAIL FROM id.
# If the BlackListedEmail Entry is also found in WhiteListEmail file, it will be treated as FRIEND.
# Example: antispam@dil.in
# In the above mentioned setting the email id will be BLOCKED.

# Example: *deepak@datainfosys.net
# According to the above example any email id which start by any name (use * as Wild Card) but ending with deepak@datainfosys.net will be BLOCKED. * Wild Card can be used before @ symbol or Domain Name.
# please do not change the syntax <email> </email>, it will not work as desired.

   *<email>*
       *# *deepak@datainfosys.net*
       *# *shiv*@datainfosys.net*
       *# antispam*@dil.in*
   *</email>*

# If in specified seconds, the SMTP or POP server does not give response to any commnad, connection will be closed
# SocketTimeOut = milliseconds
SocketTimeOut=20000

# Delay in between retries, if Server is not able to communicate with SMTP Server or POP server
# Timeinmin_Retry= milliseconds
Timeinmin_Retry=10000

# Retry = No of retries to connect to SMTP / POP server
Retry=10

# If AllowInternetRelay=ON - Spamjadoo will accept email from external domains but from internal IP
AllowInternalRelay=off

# Directory Harvest Attatk - No of continuous attacks from a particular IP to identify as DHA
# NumNSU = No_of_continious_attacks
NumNSU=20

# IF an IP gets blacklisted because of DHA than for how many days IP will be treated as BlackListed
# ShelfLifeDHA = Numer_of_days
ShelfLifeDHA=1

# Value in Bytes i.e MB = 1048576 bytes
MaxDataSize=2007152

# Syslog Server to store error logs
SysAddress=202.157.72.250

# Default Public Smtp for Internal Relay
DefaultSmtp=202.157.81.38

# Forward Thread Listing Port
QueueThreadServerPort=8009

# Forward Thread Running on IP
QueueThreadServerIp=127.0.0.1

# Retry Thread will pick emails (which is not sent by forward thread) after each ThreadIneterval Time
ThreadInterval=300000

# Retry Thread Execution Interval Time
RetryInterval=2000000


# Default Banner for Spamjadoo Server
Banner= Spamjadoo SMTP Service by http://datainfosys.net

# Maximum Time Retry Thread will try to send mail
MaxRetry=7200000

# Default Retry Thread Count
NoOfRetryThread=1

# It contains the DNSBL Zones for reverse DNS lookup (zone.txt)
ZoneFile=zone.txt

  *For Example*

  *<dnsbl>*
  *dnsbl.sorbs.net*
  *</dnsbl>*

# Set the true/false for reverse DNS Lookup to stop spam registered sites
isreversecheck=false

# Set the true/false for antivirus mail facility
clamscan=false

# ON/OFF Setting for Insertion of Logs into Spamjadoo Dashboard
# (IncomingLog, OutgoingLog, KeyMailLog, AliasLog and SessionLog).
# (By default is OFF, If you want to turn ON then ensure that you should
# has Additional 256MB with Extra Hard Drive Space)

Incoming=OFF
SpamSession=OFF
OutBound=OFF

KeyMail=OFF
Alias=OFF

# Batch Processing (Log Intertion) Interval Time in Milisecond.
BatchTime=1000

# Set the path for the InBox And Undelivered Folder [Default is Current Path(.)]
path=.

# Number of Times Retry to Connect POP Server. If POP Not Responding to
# Spamjadoo Server.
Max_Retry=20

# Set the Time Limit, where POP Server should response.
Max_Retry_Time=10000

# Set the flag (0-Non Active, 1-Active) to receive un-validate sender list on
# email address for pre-approve.
SendUnknown = 0

NOTE: *Order of .txt file processing is IP, Banner, Domain, Email and HostAllowed. WhiteList will be process first then BlackList.*

2.  DASHBOARD

    Dashboard directory includes all the CLASS, Tag Library and JSP files for Spamjadoo Dashboard.

    After the complete installation of Spamjadoo you can see Spamjadoo Dashboard on the following URL:

    http://localhost or http://machineIP

    The following Screen will come after submitting above URL



    Now you can test your Spamjadoo Dashboard by entering UserId (along with domain) and POP3 Password. If you will get next screen then it means your dashboard is working fine, otherwise there is some problem like UserId or Password Wrong.

UserId should be same which you have entered at the time of Spamjadoo Installation.

*Note: For proper working of Spamjadoo you should have Orion, Postgres Database and Spamjadoo Service (preceded by java) in running process.*