



[Spamjadoo Installation Guide](#)

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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.

Software Installation

Installation Prerequisites

Followings are the Installation prerequisites

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 it from 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

JDK Path should be set.

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

JAVA_HOME = /usr/java/j2sdk1.4.2_03

Download it from <http://java.sun.com> or take help of search engine.

3. Postgresql 7.4 or 8.1 Database (use rpm (postgresql-7.4.1-1PGDG.i386.rpm) based installation). Install rpm by rpm -ivh <filename> command

Postgresql should be running.

Type this command of sequence on prompt

```
ps -ef | grep postmaster
```

If it is postgres is running then it will give you a postmaster entry. Download it from <http://www.postgresql.org>

4. Install SpamJadoo

The Deployment CD or setuplink consists of a file named **spamjadoo.tar.gz** First copy the file in the /home/ directory then untar (open the tar file) the **spamjadoo.tar.gz** file (tar -zxvf **spamjadoo.tar.gz** *) **spamjadoo.tar.gz** consist of following directories / files

1. spamjadoo folder (default : /home/spamjadoo)

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

2. spamjadoosetup.sh (file)

It is the main setup file which calls other configuration files.

3. setlocal.sh (file)

This configures orion web server for SpamJadoo and creates a local Linux user.

4. crtdbusr.sh (file)

This creates database user (i.e. db__user) and database (i.e. anti_db_spam).

5. crtdbobj.sh (file)

This creates database objects for SpamJadoo

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

Configuration file for Orion web server.

7. uninstallspamjadoo.sh (file)

This will uninstall the SpamJadoo Server .

8. dropuserdb.sh (file)

This drops the database user and database objects.

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:

1. Make a **directory** in your machine like deployment.
2. Copy the **spamjadoo.tar.gz** file from the CD or weblink to your directory.
3. Un-tar the **spamjadoo.tar.gz** file in your current directory.
4. Execute the sh **spamjadooosetup.sh** to install.
5. It will check for the Hard Disk Space and Memory. If both are sufficient then it will go forward otherwise exit from installation.
6. It will check for the **Orion web server path** and the **JDK path**.
7. It will ask 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. 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. 202.157.83.58) – smtp forwarding ip

POP3 IP address (e.g. 202.157.83.58) – pop account verification ip

SMTP_AUTH IP address (e.g. 202.157.83.53) – smtp verification ip

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.

Command Line Process to Check and Maintain the Server **You must be logged in as root on the Server.**

POSTGRES START/STOP PROCESS

How to check Postgres is running or not

Type this command of sequence on prompt

ps -ef | grep postmaster

How to Start Postgres Database

Type this command of sequence on prompt

su postgres -c '<pg_home>/pg_ctl start -D <pg_data>' pg_home = postgresql home directory (/usr/bin OR /usr/local/pgsql/bin) pg_data= postgresql data directory (/var/lib/pgsql/data OR /usr/local/pgsql/data)

How to Stop Postgres Database

Type this command of sequence on prompt

su postgres -c '<pg_home>/pg_ctl stop -D <pg_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

If it is Orion Web Server is not running then you will not be able to get the home page of Spamjadoo

How to Start Orion Web Server

Type this command of sequence on prompt

```
cd /home/orion
java -jar orion.jar
```

How to Stop Orion Web Server

Press CTRL + c to stop Orion Web Server on the above screen.

Final Check

The Screen on the console should look like below.

```
login as: root
```

```
root@202.157.83.58's password:
```

```
Last login: Mon Nov 26 14:56:01 2007 from 202.157.72.250
```

```
[root@aspmx1 server]# ps ax | grep java
5196 ?    SI   0:00 Forward
5197 ?    SI   0:04 TKJStartSMTP
5198 ?    SI   0:00 java -Xmx512M Bounce
5199 ?    SI   0:19 java -Xmx512M Retry
3157 ?    SI   0:00 java -Xmx500M -jar orion.jar
```

```
[root@ aspmx1 server]# kill 3157
```

SpamJadoo SERVER START/STOP PROCESS

Go to default directory of SPAMJADOO Server i.e

```
/home/spamjadoo/server then,
```

Execute the following command

```
#kill -9 java
```

It will stop spamjadoo service

```
#sh start
```

It will start the Spamjadoo Server

The default installation is in /home/spamjadoo/server
See ServerConfig.txt for details of parameters.

CLASSPATH TO BE INCLUDED

```
CLASSPATH=$CLASSPATH:./spf.jar  
CLASSPATH=$CLASSPATH:./  
CLASSPATH=$CLASSPATH:./mailapi.jar  
CLASSPATH=$CLASSPATH:./activation.jar
```

```
export CLASSPATH
```

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 Server Configuration File  
# -----  
#  
# This file consists of parameters configurable by Spamjadoo Server  
# Administrator. The format to define each parameter is as below:  
#  
# ParameterName=value  
#  
# Comments are introduced with '#' at the start of each line. The complete list of  
#option names and allowed values can be found in the SpamJadoo Server  
#Configuration Documentation.  
# This file is read by SpamJadoo Server on startup. Do not change the name of this  
file.  
# You are allowed to change values written after "=" sign only.  
# Note : In case any Parameter Name is edited/deleted , Spamjadoo will not start  
# properly.  
# -----  
  
# Default SpamJadoo SMTP Server Port, make sure it is not used  
# By any other process like sendmail or postfix etc.  
# Default value = 25  
Smtp-Port=25  
  
# Define IP address on which SpamJadoo will bind the port and listen to  
#request.If not defined, it will bind to all Ethernets available and listen to all IP  
addresses.  
Smtp-IP=202.157.83.57  
  
# No of concurrent connection SpamJadoo will be allowed to open .  
Max-Threads=90  
  
# No of RCPT TO in a particular email allowed , more than that  
# will be treated as SPAM.  
Max-Recipients=20  
  
# Postgres Database Connection Parameters  
# DB-ConnString=DriverType:DriverForPostgres://hostname/DatabaseName  
DB-ConnString=jdbc:postgresql://202.157.81.81/YW50aXNwYW0=  
  
# Database UserName  
DB-Username=YW50aXNwYW0=  
  
# Database Password
```

DB-Password=c3BhbV9hbnQx

Whitelist and Blacklist configuration files.

Whitelist configurations have preference over blacklist configurations.

It Contains the Black Listed Domains Entry File

BlackDomainFile=BlackListDomain.txt

It Contains the Black Listed IP Entry File

BlackIpFile=BlackListIp.txt

It Contains the White Listed Domain Entry File

WhiteDomainFile=WhiteListDomain.txt

It Contains the White Listed IP Entry File

WhiteIpFile=WhiteListIp.txt

It Contains the Black Listed Banner Entry File

BlackBannerFile=BlackListBanner.txt

It Contains the White Listed Banner Entry File

WhiteBannerFile=WhiteListBanner.txt

It Contains the list of External SMTP Servers Allow to Relay for Internal Configured Domains.

HostFile=HostAllowed.txt

It Contains the Black Listed Email Entry File

BlackEmailFile=BlackListEmail.txt

It Contains the White Listed Email Entry File

WhiteEmailFile=WhiteListEmail.txt

At the time of receiving the emails, if there is unexpected delay in

receiving response from the senders server, spamjadoo will wait only for the specified time below.

SocketTimeOut = milliseconds

SocketTimeOut=30000

If total connections open are less than 50% of Max-Threads parameter value than

Spamjadoo will wait for the below time. Its normally longer duration than

SocketTimeOut value.

ExtraTimeOut=60000

No of retries attempt to connect with recipient SMTP server for sending Challenge Response.

Retry=10

Delay in between retries to send Challenge Response mail.

Timeinmin_Retry= milliseconds

Timeinmin_Retry=60000

If AllowInternetRelay=ON - SpamJadoo will accept email from external domains but from internal IP.

No authentication takes place if From id is of external domain.

WARNING : If set to ON , It will be uncontrolled open relay.

AllowInternalRelay=off

Directory Harvest Attack - No of continuous invalid emails from a particular IP to identify as DHA.

Spamjadoo will sence invalid emails and count them automatically.

NumNSU = No_of_continous_attacks

NumNSU=60

IF an ip gets blacklisted because of DHA than for how many days IP will be treated as BlackListed

ShelfLifeDHA = Number_of_days

ShelfLifeDHA=1

Maximum email size allowed from Extenal domains.

Value in Bytes i.e MB = 1048576 bytes (For External domain)

ExMaxDataSize=25145728

Maximum email size allowed from Internal domains.

Value in Bytes i.e MB = 1048576 bytes (For Internal domain)

InMaxDataSize=12145728

#Default Banner for SpamJadoo Antispam Server

Banner=SpamJadoo Antispam SMTP Service by <http://datainfosys.net>

Set the YES/NO for DNSBL to stop spam registered sites

dnsbl=YES

It contains the DNSBL Zones

ZoneFile=zone.txt

Set the true/false for antivirus mail facility

ClamScan=true

ClamPath=/usr/local/bin/clamscan

ON/OFF Setting for Insertion of Logs into Spamjadoo Dashboard (Incoming Log,

OutgoingLog, KeyMailLog, AliasLog and SessionLog).

(By default is OFF)

Note : Switching all the logs ON reduces the performance.

Not recommended in ISP / Hosting companies scenarios or very high

traffic.

Incoming=ON

SpamSession=OFF

OutBound=OFF
KeyMail=OFF
Alias=OFF
Batch Processing (Log Intertion) Interval Time in Milisecond.
BatchTime=10000
ON/OFF setting for creating domain wise report
Note : Switching ON reduces the performance.
Not recommended in ISP / Hosting companies scenarios or very high
traffic.
DomainStats=ON
ON/OFF setting for content filtering
Note : Switching ON reduces the performance.
Not recommended in ISP / Hosting companies scenarios or very high
#
Bayesian=ON
ON/OFF setting for Intent Filtering - (phrase filtering)
Note : Switching ON reduces the performance.
Not recommended in ISP / Hosting companies scenarios or very high
Internet Action = ADD or DROP
If ADD than value of spamtext will be added into the subject line.
If DROP than mail will be dropped and will not be delivered to Inbox.
IntentAnalysis=ON
IntentAction=ADD
spamtext=junk

#=====
ONLY TO BE CHANGED BY SPAMJADOO OR DATA INFOCOM TEAM...
#=====
Forward Thread Listening Port
QueueThreadServerPort=8084
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=300000
Maximum Time Retry Thread will try to send mail
MaxRetry=72000000
Default Retry Thread Count
NoOfRetryThread=1
Storage path for Queue and Temperory processing.
Spamjadoo will create required directories at the following path.
path=.
Max attempt to verify the recipient on SMTP{authentication} server in case of
authentication server is not responding ,after MAX_Retry time spamjadoo will give

421 over the next 10 min. to all the senders for the same domain users ; without verifying on SMTP SERVER.

Max_Retry=20
#Max Time For pop Authentication in milliseconds.
Max_Retry_Time=60000
Notify Users about unknown senders everyday.
No action - set value to 0
Delete unknown senders as per the settings done in domain settings
(dashboard)- set value to 1
Delete unknown senders as per the settings done in domain settings
(dashboard)
and Notify users about unknown senders , Set Value to 2
Do not delete unknown senders - just Notify to users about unknown senders -
Set value to 3
SendUnknown=0
#ble SMTP AUTH to allowing emails to be sent only after username and password verification.
To enable set value to 1 or set 0 for disable.
SmtAuth=1
#To Enable (SMTP AUTH) over SSL (port 995), set SSLAUTH=YES
SSLAUTH=NO
#To enable Relaying , using this feature a external domain can send mail to external domain after authentication with internal
#id and password, id must include full domain name
Relaying=YES
#Set Y/N for , Relaying SMTP is SSL or not
RelaySSL=N
#Maximum time to connect InBound server and OutBound server (in MilliSecond)
ScoketConnectionTimeout=10000
#Maximum time between two successive requests from any SMTP server (in MilliSecond)
ReadTimeout=60000
#Time(in Hour) between to Successive mails for quarantine mail . Set 0 , if you do not want this mail
QuarantineInterval=0
DNS based MX Cheking of sending domain
set 1 if you want to check MX or 0 if you do not want to check MX of senders
domain.
Warning : It adds loads to your DNS server.
MXCHECK = 1
Maximum number of simultaneous sessions allowed from each unique IP and
senders email id.
Example: MAXSESSION=1 . It will NOT allow concurrent connections from
#same
IP for the same senders email id.
MAXSESSION = 1
Email transfer rate limit on the basis of Sender server IP address.
Control the email traffic from each server IP.

**# Example : LimitOnIP = 50 will restrict number of emails to be received from
each unique IP to only fifty..
Example : Duration=2 (minutes) means that Spamjadoo will count number of
emails received from each unique IP in two minutes.
Example : SleepTime=2 (minutes) means if LimitOnIP count reaches in the set
Duration will force Spamjadoo to give 421 message for next two minutes.
Note : If you want to bypass RateLimit for few IP addresses please put them
in control.txt
LimitOnIP = 20
Duration = 1
SleepTime = 3
#you can define dns server to be used by spamjadoo
#bydefault spamjadoo will use OS level configured dns
#DNSIP=202.157.83.3
#Define Action for Virus mail – Do you want to delete the virus mail completely or
#want to send it after deleting attached virus file
#set "0" for delete and forward
#set 1 for drop
VirusAction=1**