



***Exim4U  
Email Server Solution  
For Unix And Linux Systems***

***General Overview, Feature Comparison and Screen Shots***

**Exim4U  
Email Server Solution For Unix And Linux Systems  
Version 2.x.x  
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## What is Exim4U?

Exim4U is a web based interface and software configuration for the Exim Mail Transfer Agent which includes a robust software suite fully integrated with the following components:

- Exim4U Web Interface
- Exim Mail Transfer Agent
- SpamAssassin Spam Filter
- ClamAV AntiVirus Scanner
- phpMyAdmin
- Simple Mailing List Manager
- Munin Monitor
- Dovecot IMAP Server
- Exim4U Admin and User Menu System
- Webmin Control Panel
- URL Spam Blocking (SURBL/URIBL)
- Webmail
- MySQL Database
- Mailman Mailing List Manager
- Eximstats Script
- SpamBox/SpamBox Report

Exim4U provides advanced anti-virus and anti-spam features which eliminate most all forms of malware and spam. Anyone who manages a mail server and that needs effective spam and virus filtering should consider Exim4U. The Exim4U software suite provides an excellent alternative to the popular control panels such as cPanel and Plesk.

The Exim4U web interface for the Exim MTA is written in PHP using the MySQL database engine and is a derivative work of the open source Virtual Exim (Vexim) project. Numerous enhancements and improvements are implemented in Exim4U resulting in an advanced state-of-the-art email solution for Unix and Linux mail servers. Virtual Exim (Vexim) users should consider upgrading to Exim4U for its enhanced functionality.

## Exim4U Software Suite

The Exim4U software suite provides all of the components necessary for managing a email server using a standard web browser. The Exim4U menu suite consists of an Admin Interface and a User Interface. The Admin Interface integrates Exim4U with Webmail, Eximstats, phpMyAdmin, Webmin and Munin. The User Interface provides a single menu system for end user email administration and webmail access. Exim4U's Webmail product, Webmail Groupware, is a customized implementation of Horde's Webmail Groupware branded by Exim4u.org.

## Exim4U Feature Comparison Chart

<u>Feature</u>	<u>Exim4U</u>	<u>Vexim</u>	<u>cPanel</u>
Web Based Interface	YES	YES	YES
Anti-Virus/Anti-Spam	YES	YES	YES
Virus/Spam Rejections Performed During SMTP Session	YES	NO	YES
Rate Limit Incoming Mail (Dictionary Attacks, NotQuits, RBLs, etc.)	YES	NO	YES
Rate Limit Outgoing Mail	YES	NO	NO
Relay Host (Backup MX) Configuration	YES	YES	YES
Spam Scanning Coordinated With Relay Hosts	YES	NO	NO
Greylisting	YES	NO	NO
URIBL/SURBL Spam Blocking Within Exim ACLs	YES	NO	NO
User Level Control Of Spam Score Criteria	YES	YES	NO
Multiple IPs And Multiple SSL Certificates (Each hosted mail domain may have its own IP address, SSL Certificate and "A" record which can then masquerade as the mail server's host name and IP address.)	YES	NO	NO
Spam Boxes	YES	NO	YES
Spam Box User Reports	YES	NO	NO
Advanced SpamAssassin (Pyzor, Open Protect, DCC, Razor, etc.)	YES	NO	NO
SPF Address Verification	YES	YES	NO
DomainKeys Signing and Verification (Implemented in Exim4U Version 1.1.0 for exim 4.68/4.69)	YES	NO	NO
DKIM (DomainKeys Identified Mail) Signing and Verification (Implemented in Exim4U Version 1.2.0 for exim 4.7x)	YES	NO	NO
Webmail Included	YES	NO	YES
Control Panel Integration Included (Menu System, phpMyAdmin, Munin And Other Applications.)	YES	NO	YES
Simple Mailing List Manager Included	YES	NO	NO
Mailman Integration Support Included	YES	NO	YES
Mail Archiving	TBA	NO	NO

## Exim4U Web Interface For The Exim MTA

The Exim4U web interface for the Exim MTA provides three levels of e-mail domain management:

1. Site Administration
  - Quickly add and/or remove local and relay domains.
  - Create "aliased" domains whose accounts redirect to mirror accounts on another domain.
  - Enable and tune quotas for each domain.
  - Choose to use one system UID/GID per site, or a different UID/GID for each domain.
  - Apply limits to the number of accounts allowed for each domain.
  - Enable/disable ClamAV to run during the SMTP connection.
  - Enable/disable SpamAssassin to run during the SMTP connection and set the SpamAssassin Rejection Score.
  - Coordinate spam scanning with the relay host(s). The relay or destination host may be configured for spam scanning.
  - Setup multiple IPs and SSL certificates so any number of domains can masquerade as the host mail server.
  - Setup spam filtering for relay domains since relay domains are directed to their host via their IP address in Exim4U instead of their MX DNS record.
2. Domain Administration
  - Create new POP/IMAP accounts, or aliases.
  - Enable or disable any accounts or aliases on the fly.
  - Choose to enable a "catchall" account to receive mail for unknown domain accounts.
  - Create :fail: entries to forcibly reject mail to individual addresses.
  - Optionally set quotas on mailboxes.
  - Setup and manage Simple Mailing Lists and/or Mailman Mailing Lists.
  - Add new admins to assist in domain management.
  - Set quotas on user account to any amount less than maximum given by the site admin.
  - The domain admin can toggle Anti-Virus and SpamAssassin options for each user.
3. User Administration
  - Modify password.
  - Set SpamAssassin tag score and rejection score.
  - Check account quota thresholds.
  - Set maximum message size limits for inbound mail.
  - Opt to have mail that has been tagged as spam delivered to a server spam folder or "spam box".
  - POP users may opt to have a Spam Box Report sent daily to summarize mail in their spam box.
  - Blacklist email addresses and other header criteria.
  - Set vacation message. Inbound messages are delivered normally and the sender receives the custom vacation message.
  - Forward inbound mail to any other email address.

## Overview of Exim4U's Spam Filtering Within The Exim Configuration

### Filtering Performed During The SMTP Session Within The Exim ACLs

The following is a summary of the spam filtering performed by the Exim ACL configuration included with Exim4U.

- ACL For Start Of SMTP Connection (acl\_smtp\_connect)
  - Ratelimit incoming IP addresses based on various criteria being detected in prior SMTP sessions such as dictionary attacks and RBL detection.
- ACL For Non-QUIT Terminations (acl\_smtp\_notquit)
  - Increment ratelimit of IP addresses based on SMTP session terminations without QUIT.
- ACL For HELO Or EHLO Commands (acl\_smtp\_helo )
  - Drops messages with invalid HELO arguments.
- ACL For MAIL Command (acl\_smtp\_mail)
  - Require HELO to start SMTP session.
  - Greylist for lack of reverse DNS.
- ACL For RCPT Command (acl\_smtp\_rcpt)
  - Ratelimit Outgoing Mail based on sender volume.
  - Deny if mail address's local part is invalid.
  - Deny if the sender's domain does not have an MX DNS record.
  - Greylist if host fails CSA check.
  - Increments ratelimit for dictionary attacks.
  - Deny if recipient's mail address does not exist.
  - Drop if IP address is in RBLs and increment ratelimit.
  - SPF check of sender address.
- ACL For DKIM (acl\_smtp\_dkim)
  - Options to greylist or deny if DKIM signature does not meet certain criteria.
  - Add DKIM status header.
- ACL For Content Scanning MIME Parts (acl\_smtp\_mime)
  - Deny if file attachment extensions are blacklisted.
  - Deny if URL in MIMI parts is in SURBL, URIBL or Spamhaus DBL..
- ACL After DATA Command Is Complete (acl\_smtp\_data)
  - Deny malware with ClamAV.
  - Deny for non-MIME mail if URL is in SURBL/URIBL.
  - Greylist if there is no message-id header.
  - Deny if SpamAssassin spamscore exceeds global rejection score (if SpamAssassin is enabled globally).
  - Greylist if spamscore exceeds 0.

## Overview of Exim4U's Spam Filtering Within The Exim Configuration (Continued)

### Filtering Performed Within The Exim Routers

The following is a summary of the spam filtering performed by the Exim router configuration included with Exim4U.

- Routing To Relay Hosts
  - Discard mail with spamscore exceeding the domain's discard score.  
(if SpamAssassin is enabled for the domain)
  - Tag mail as spam if the spamscore exceeds the domain's tag score.  
(if SpamAssassin is enabled for the domain)
  - Route to relay host's IP address as specified in the Exim4U web interface.
- Routing To Local Host Accounts
  - Discard mail with spamscore exceeding the user's discard score.  
(if SpamAssassin is enabled for the user)
  - Tag mail as spam if the spamscore exceeds the user's tag score.  
(if SpamAssassin is enabled for the user)
  - Route to relay host's IP address as specified in the Exim4U web interface

### Filtering Performed Within the Exim Transports

- Deliver mail that is not tagged as spam to the user.
- Deliver mail that is tagged as spam either to the user's inbox or spam box as specified in the Exim4U web interface.

## Overview of Exim4U's Multi-IP Transport Configuration

Exim4U's Multi-IP Transport configuration allows any number of local domains to masquerade as the host mail server with or without TLS encryption. That is, all outgoing mail for each domain will be delivered in behalf of that domain's name and IP address instead of the mail host's domain name and IP address. Likewise, all incoming mail for each domain will also be received using that domain's name and IP address instead of the mail host's name and IP address.

## Coordination Of Spam Processing Between The Local Host And Relay Hosts

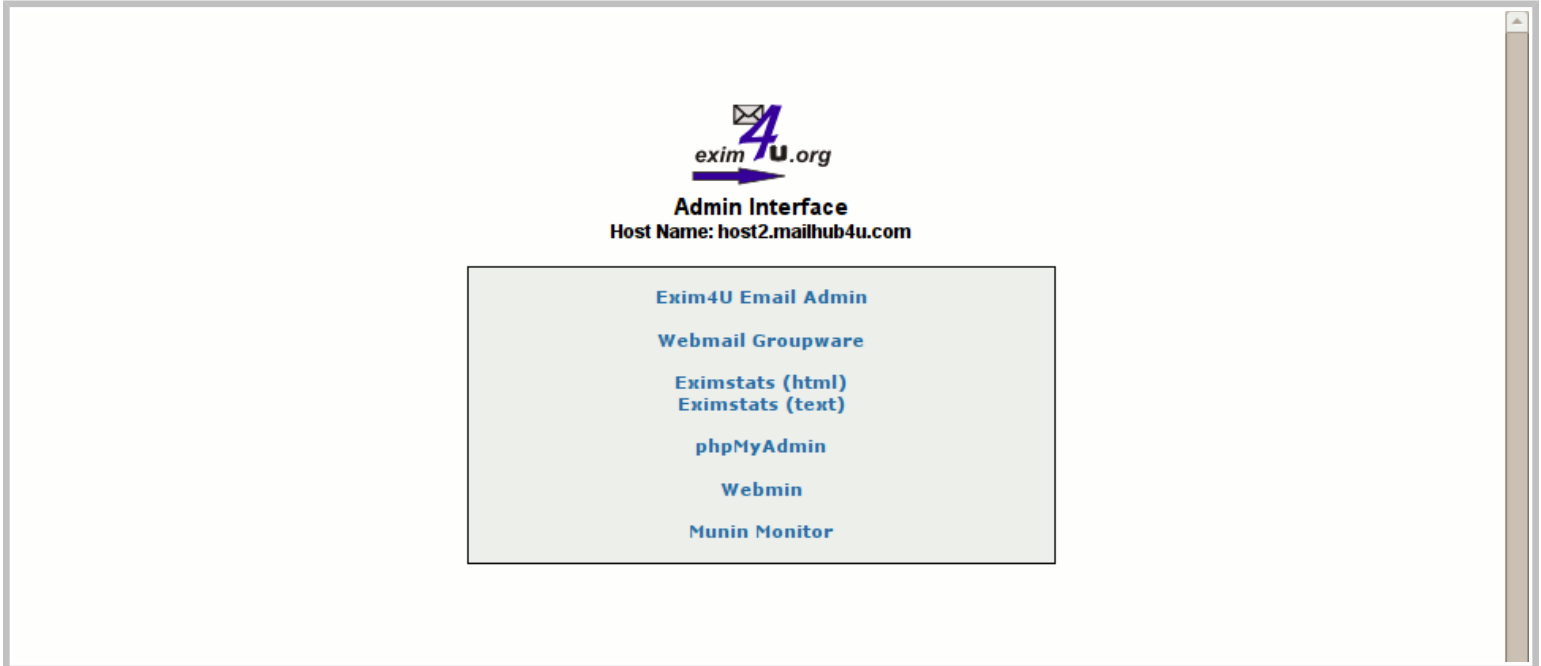
Exim4U has a unique way of managing Spamassassin execution by coordinating the spam filtering between the local host and the relay host(s). With this coordinated approach, the system administrator specifies which host processes incoming mail with Spamassassin, which host performs spam tagging and which host rewrites the spam headers.

Another interesting feature is that Exim4U does not rely on DNS MX records for relaying mail from a relay host to its destination host. Instead, the destination host is specified in the Exim4U web interface in the Relay Server Address field in Domain Administration. Therefore, multiple relay hosts may be deployed along with the destination host and the MX records can all be set to the same value or any set of values for that matter but all mail will ultimately be delivered to the destination host. Exim4U is then used to specify whether spam processing, tagging and/or spam header rewriting is done by the relay host(s) or the destination host. These features provide the capability for Exim4U installations to be used as spam filters for any other mail host.

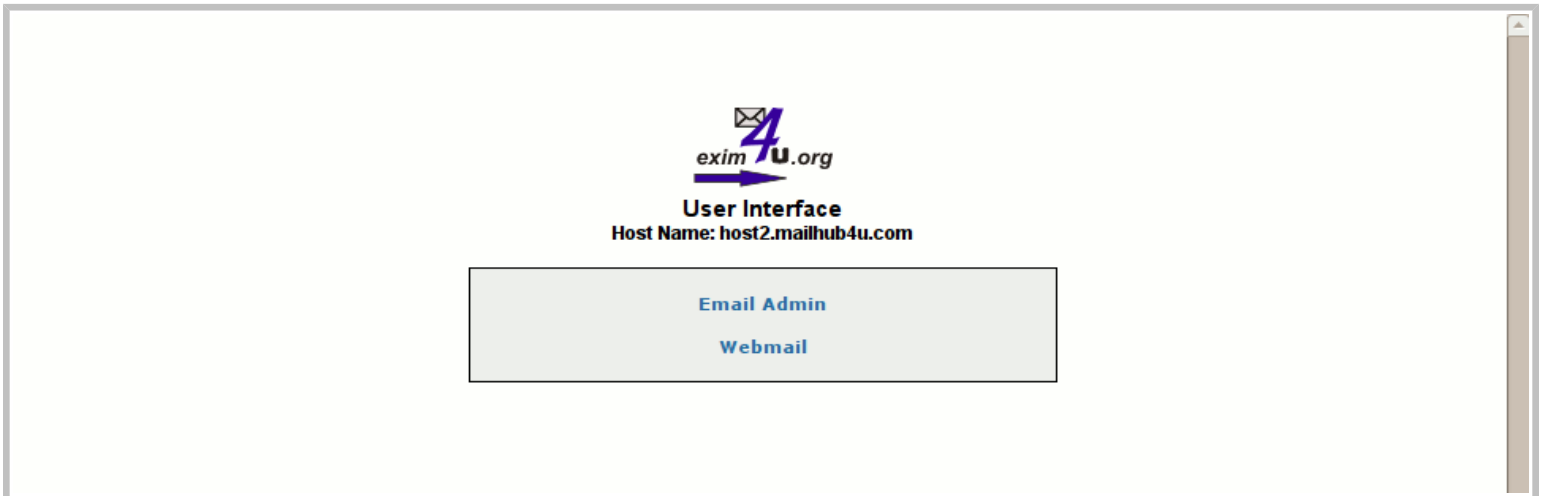


## Exim4U Screen Shots – Admin and User Interfaces

### Admin Interface

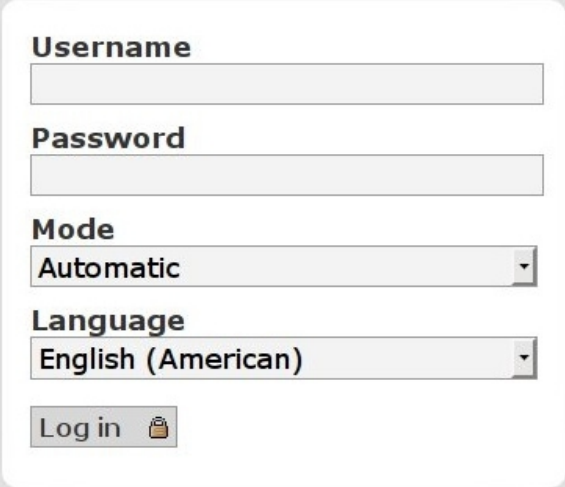


### User Interface



## Exim4U Screen Shots - Webmail

### Webmail Login



The image shows a webmail login interface. It features a central white box with a light gray border containing the following elements:

- Username**: A text input field.
- Password**: A text input field.
- Mode**: A dropdown menu currently set to "Automatic".
- Language**: A dropdown menu currently set to "English (American)".
- Log in**: A button with a lock icon.

Below the login form, centered on the page, is the logo for Exim4U. The logo consists of a blue envelope icon with a white '4' inside, followed by the text "exim 4U.org" and "Webmail Groupware" below it.

### Exim4U Screen Shots - Webmail (Continued)

#### Webmail Inbox

The screenshot shows a webmail interface with a sidebar on the left and a main content area. The sidebar contains navigation links: New Message, Get Mail, Alerts Log, Apply Filters, Portal, Preferences, Log Out, and a list of folders including Mail, Filters, Calendar, Notes, Tasks, Address Book, Folder Options, and Virtual Folders. The main area is titled 'Inbox' and shows a single message from 'gordon@discoduck.org' with the subject 'Welcome Donald Duck!'. The message details include the date '07:42:39 PM' and size '1 KB'. Below the message list, the email content is displayed, starting with 'Welcome, Donald Duck !' and providing account setup information for 'donald@discoduck.org'.

	From	Subject [Thread]	Date	Size
<input checked="" type="checkbox"/>	gordon@discoduck.org	Welcome Donald Duck!	07:42:39 PM	1 KB

**Welcome Donald Duck!** from [gordon@discoduck.org](mailto:gordon@discoduck.org) 07:42:39 PM

Text part 1 KB

Welcome, Donald Duck !

Your new E-mail account is all ready for you.

Here are some settings you might find useful:

Username: donald@discoduck.org  
Incoming POP3 or IMAP server: mail.discoduck.org  
Outgoing SMTP server: mail.discoduck.org


## Exim4U Screen Shots – Email Admin

### Email Admin - Login Page

Exim4U Email Admin

Username:  @  (Domain)

Password:



The logo features a stylized '4' with an envelope icon above it, and the text 'exim 4u.org' below. A blue arrow points to the right from the bottom of the '4'.

### Email Admin - Postmaster Page

Exim4U Email Admin -- dickens.com

[POP/IMAP Accounts](#)

[Aliases, Forwards And Catchalls](#)

[Addresses To Fail](#)

[Groups](#)

[Simple Mailing Lists](#)

[Mailman Mailing Lists](#)

[Logout](#)

## Exim4U Screen Shots – Exim4u Email Admin (Continued)

### Email Admin - Domain Administration Page

Exim4U Email Admin -- Domain Administration

[Add alias domain](#)  
[Add local domain](#)  
[Add relay domain](#)  
[Site Password](#)

[Logout](#)

ALL [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Search:

Local domains	Admin account	Total admins
<a href="#">dickens.com</a>	Multiple admins	3
<a href="#">dickens.nu</a>	Multiple admins	3
<a href="#">georgiajets.org</a>	Multiple admins	2
<a href="#">host2.mailhub4u.com</a>	<a href="#">gordon@host2.mailhub4u.com</a>	1

**WARNING:** Deleting a domain will delete all user accounts in that domain permanently!

**Relay domains**

- [ccs18.com](#)
- [execturfman.com](#)
- [executiveturfmanagement.com](#)
- [host1.mailhub4u.com](#)
- [mailhub4u.com](#)
- [mrbezel.com](#)
- [wuli.nu](#)
- [wulimasters.com](#)
- [wulimasters.net](#)
- [wulimasters.org](#)

**Aliased domains**

### Exim4U Screen Shots – Exim4u Email Admin (Continued)

#### Email Admin - Add User Page

Exim4U Email Admin -- dickens.nu

[Manage Accounts](#)  
[Main Menu](#)  
[Logout](#)

Name:

Address:

Password:

Verify Password:

Has domain admin privileges?

Pipe to command:

Optional: Pipe all mail to a command (e.g. procmail)  
Check box below to enable

Enable piped command?

Spamassassin:

Enable Spam Box:

Enable Spam Box Report:

Spamassassin tag score:

Spamassassin discard score:

Maximum message size:  Kb

Enabled:

## Exim4U Screen Shots – Exim4u Email Admin (Continued)

### Email Admin - Add Local Domain Page

Exim4U Email Admin -- Domain Administration

[Manage Domains](#)  
[Site Password](#)  
[Logout](#)

New Domain:	<input type="text"/>	Domain that you are adding.
Domain Admin:	<input type="text" value="postmaster"/>	Username of domain's administrator
Password:	<input type="password"/>	
Verify Password:	<input type="password"/>	
Outgoing IP:	<input type="text" value="111.222.333.444"/>	
System UID:	<input type="text" value="506"/>	
System GID:	<input type="text" value="506"/>	
Domain Mail directory:	<input type="text" value="/home/exim4u/mail/"/>	Create the domain directory below this top-level mailstore
Maximum accounts (0 for unlimited):	<input type="text" value="0"/>	
Max mailbox quota (0 for disabled):	<input type="text" value="0"/> Mb	
Maximum message size:	<input type="text" value="0"/> kb	The maximum size for incoming mail (user tunable)
Spamassassin tag score:	<input type="text" value="5"/>	
Spamassassin discard score:	<input type="text" value="10"/>	
Spamassassin enabled?	<input checked="" type="checkbox"/>	
Enable piping mail to command?	<input type="checkbox"/>	
Domain enabled?	<input checked="" type="checkbox"/>	
<input type="button" value="Submit"/>		

## Exim4U Screen Shots – Exim4u Email Admin (Continued)

### Email Admin - Add Relay Domain Page

Exim4U Email Admin -- Domain Administration

[Manage Domains](#)  
[Site Password](#)  
[Logout](#)

New Domain:  Domain that you are adding.

Relay Server:  Destination mail server name.

Spamassassin tag score:

Spamassassin discard score:


Spamassassin enabled?

### Email Admin – Simple Mailing List Page

Exim4U Email Admin -- dickens.nu

[Main Menu](#)  
[Logout](#)

## Simple Mailing Lists

 **support** ✓ (2) daffy@discoduck.org, pincushion@...

**users** ✓ (2) donald@discoduck.org, yuckfoo@di...



## Exim4U Screen Shots – Exim4u Email Admin (Continued)

### Email Admin - Mailman Page

Exim4U Email Admin -- dickens.nu

Mailman Lists

- [View Lists](#)
- [Add a list](#)
- [Main Menu](#)
- [Logout](#)

Mailman List Administration

Please Enter A List Name:

Submit