



What's new in cPanel?



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Scope

- »» Mail
- »» Application Hosting
- »» Memory Usage Reductions
- »» Integration Improvements
- »» Various
- »» Support



Have things changed since last conference?

- »» 1420 lines of changelog entries for RELEASE
- »» 1735 lines of changelog entries for EDGE

- »» 120+ bugzilla bugs resolved



For an exhaustive list

»» <http://changelog.cpanel.net>

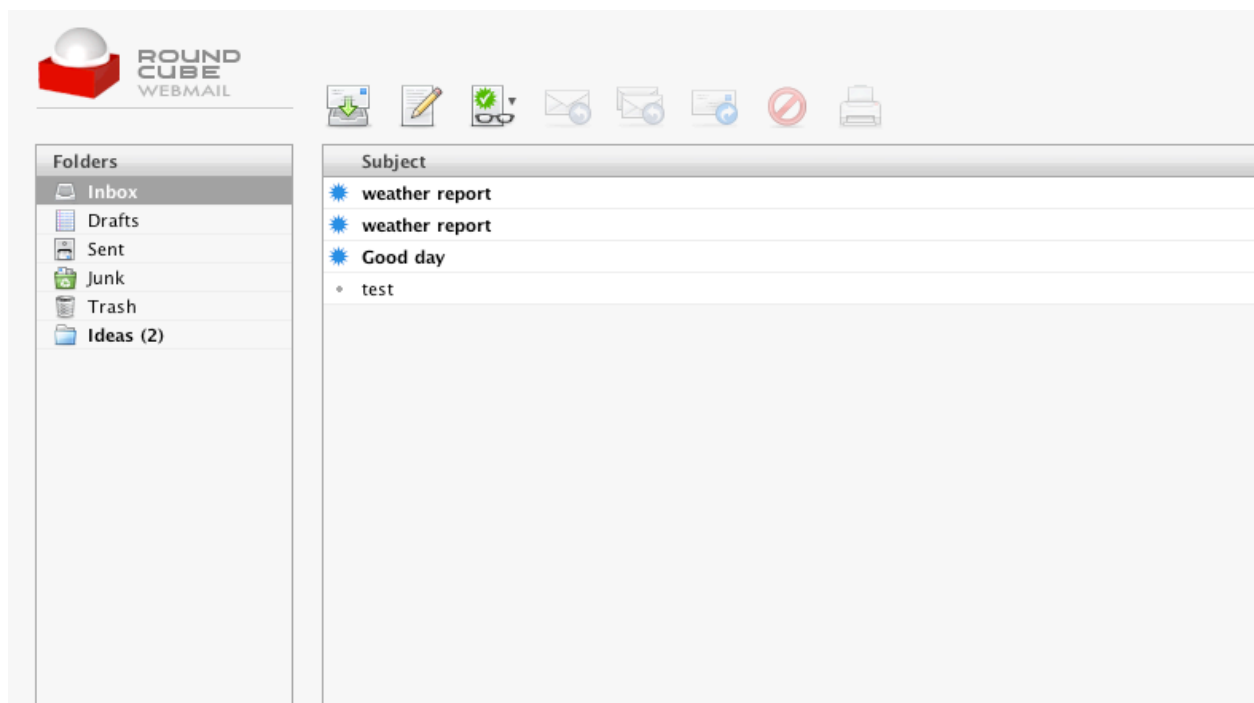


Mail Changes



Got Style?

Roundcube webmail has been introduced into the cPanel trees with ACL support.





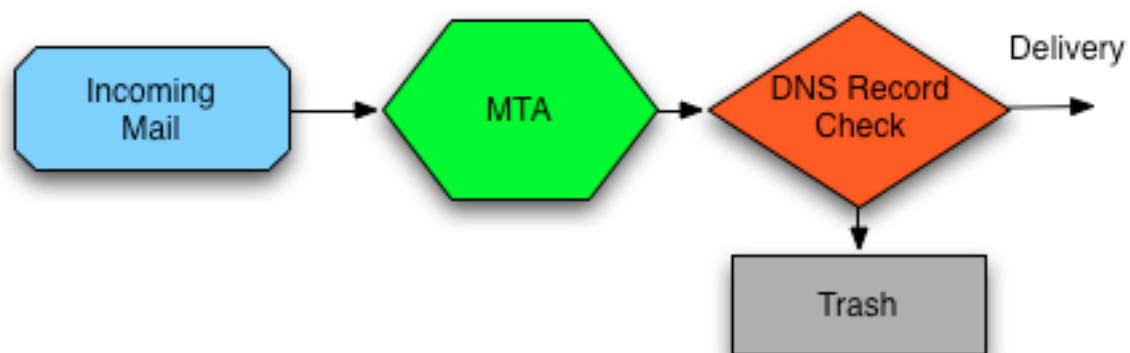
Sender Policy Framework (SPF)

Allows MTAs to identify forged addresses in the return path of email.

Uses DNS TXT records published by server owner.

Defined in [RFC 4408](#)

SPF Broken Down



Works against:

- Forged return-path messages

Not for:

- Compromised mail accounts



SPF Records

example.com. IN TXT "v=spf1 a ptr ~all"

- v=spf1 Used by SPF to identify this TXT record as a SPF record
- a Allows example.com's IP (A record) to send mail for example.com
- ptr Allows example.com's domain name (PTR record) to send mail for example.com
- ~all Soft fail -- messages that are not approved are subjected with scrutiny

More information at: <http://www.openspf.org/>



SPF at Exim time vs SpamAssassin

SPF checks within Exim allow SPF checks to be implemented before mail is received and passed off for sending.

Significant CPU usage reductions during SPF processing.



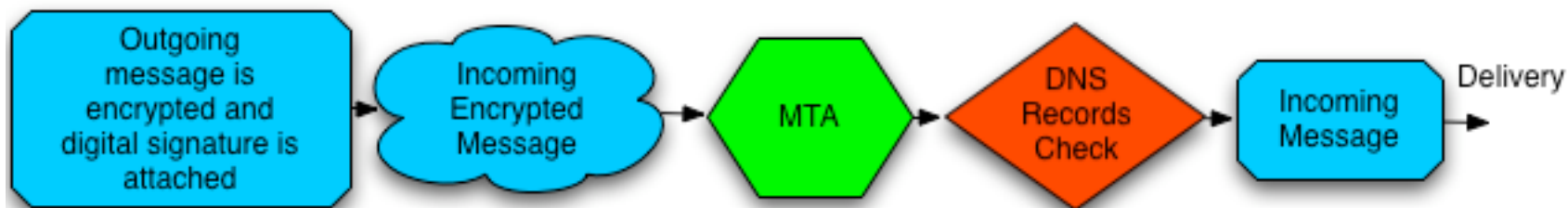
DomainKeys

Offers almost end-to-end integrity for mail.

Mail is signed by sending MTA and receiving MTA is given information to verify.

Specified in RFC 4870 and RFC 4871

DomainKeys Broken Down



Works for:

- Identifying Spam
- Verifying message contents have not changed

Not for:

- Preventing Spam



WHM >> Service Configuration >> Exim
Configuration Editor

Exim Config Editor Updates

RBL Manager:

RBLs [MANAGE]

** RBL: [bl.spamcop.net](#) [?]

** RBL: [zen.spamhaus.org](#) [?]

** RBL: [zen.spamhaus.org and rbl.spamcop.net](#) [?]

** Whitelist: [IPs that should not be checked against RBLs](#) [?]

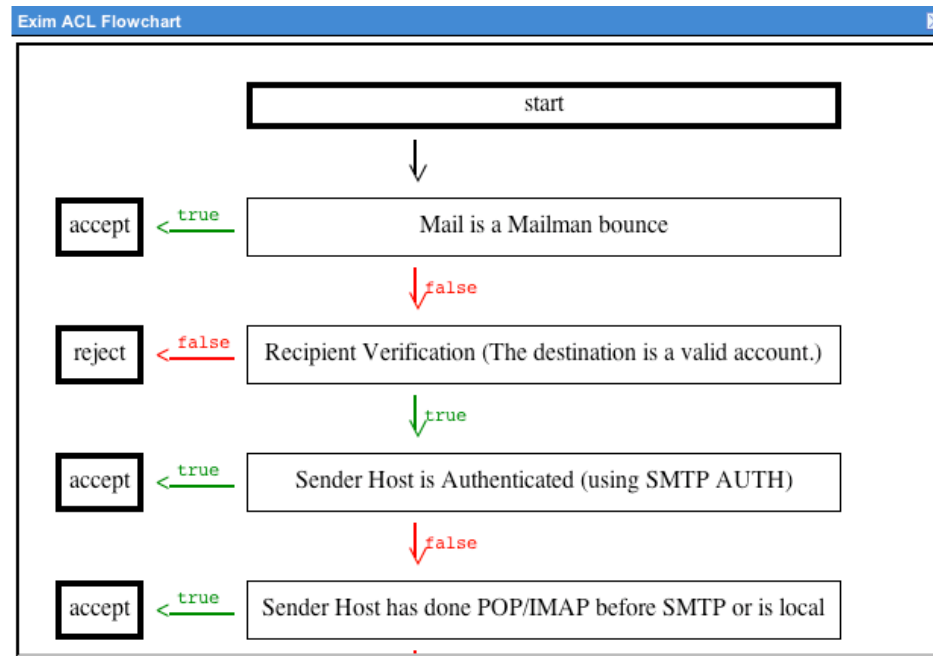


WHM >> Service Configuration >> Exim Configuration Editor >> Visualize ACLs

Exim Config Editor Updates

Exim ACL Flowchart:

Shows the path of a message through your ACLs





Application Hosting



Ruby and Rails

Ruby and Ruby on Rails through cPanel and WHM.

Install Ruby Gems

Deploy Ruby on Rails applications



cPanel >> Software / Services >> Ruby on Rails

Rails


Deploy Ruby apps from cPanel with a few clicks

Production and development modes

Create Ruby on Rails Application

App Name *15 character limit

Load on Boot?

Application Path  /

Enviroment:



Mod_mono Upgraded

mod_mono upgraded to 1.9

- »» .NET 2.0 support for Web Services
- »» ASP.NET WebForms
- »» VB.NET compiler and runtime
- »» C# 3.0 support



PHP Extensions and Applications

Perl Modules

RubyGems

User specific

Find a PHP Extensions and Applications Package

Search

Go

or

Show Available PHP Extension(s) and Application(s)

Install a PHP Extensions and Applications Package

Install Now



WHM >> Service Configuration >> PHP Configuration Editor

PHP Configuration Editor

Turn off harmful functions

Section	Directive	Info	Value
Core	include_path	Specifies a list of directories where the require(), include(), fopen(), file(), readfile() and file_get_contents() functions look for files. The format is like the system's PATH environment variable: a list of directories separated with a colon in Unix or semicolon in Windows.	./usr/lib/php:/usr/local/lib/php
Core	memory_limit	This sets the maximum amount of memory in bytes that a script is allowed to allocate. This helps prevent poorly written scripts for eating up all available memory on a server. Note that to have no memory limit, set this directive to -1.	32M
Core	file_uploads	Whether or not to allow HTTP file uploads.	<input type="radio"/> Off <input checked="" type="radio"/> On
Core	asp_tags	Enables the use of ASP-like <% %> tags in addition to the usual tags. This includes the variable-value printing shorthand of <%= \$value %>.	<input checked="" type="radio"/> Off <input type="radio"/> On
Core	upload_max_filesize	The maximum size of an uploaded file.	2M
Core	register_globals	Whether or not to register the EGPCS (Environment, GET, POST, Cookie, Server) variables as global variables.	<input checked="" type="radio"/> Off <input type="radio"/> On
Options & Information	max_execution_time	This sets the maximum time in seconds a script is allowed to run before it is terminated by the parser. This helps prevent poorly written scripts from tying up the server. The default setting is 30.	30
Options & Information	max_input_time	This sets the maximum time in seconds a script is allowed to parse input data, like POST, GET and file uploads.	60
Safe Mode	safe_mode	Whether to enable PHP's safe mode.	<input checked="" type="radio"/> Off <input type="radio"/> On
Session Handling	session.save_path	session.save_path defines the argument which is passed to the save handler. If you choose the default files handler, this is the path where the files are created. Defaults to /tmp.	;/path **DEFAULT** , Click to Edit



Memory Usage Reductions



Optimizing Binaries

Learn from OSS

Binary optimization techniques deployed to speed up
browsers used to speed up cPanel



VPS Optimized

<http://www.cpanel.net/products/cpvps>

- » Reduces standing memory usage up to 60%
- » Available in EDGE, CURRENT and RELEASE



Tailwatchd

Replaces many log processing daemons with a single daemon.

Handles the future.

Single daemon uses less memory than just one old external daemon.



Improved Integration



/usr/local/cpanel/hooks

Post API action hooks

- Send an email based on an action
- Create custom settings
- Integrate with a custom frontend



Additional XML API Calls

<http://www.cpanel.net/plugins/xmlapi/>

- » Terminating Reseller Accounts
- » Limit Bandwidth Usage
- » Upgraded Create Account
 - Save packages
 - Set default language



What can you do with our APIs?

Anything in x3

» x3 built on API1 and API2

» XMLAPI can perform WHM and cPanel tasks



Various



Password Generation and Strength Checks

Old Password:

New Password:

Password Strength:

Very Weak (0/100)

Generate Password

New Password (again):

Change your password now!

Password Generator

Password Strength:

Regenerate

Uppercase:

Lowercase:

Numbers:

Symbols:

Password Length:

Use Password Cancel



cPanel WHM Webmail Proxy VHosts

Support for `whm.domain.com`, `cpanel.domain.com` and `webmail.domain.com`

- » Works with firewalls that only allow port 80 traffic
- » Can turn on or off
- » One click activation

Add proxy VirtualHost to `httpd.conf` to automatically redirect unconfigured cpanel, webmail, webdisk and whm subdomains to the correct port (requires `mod_rewrite` and `mod_proxy`)





New DNS Zone Record Types

Add New Entries Below this Line

<input type="text"/>	14400	IN	Select
<input type="text"/>	14400	IN	Select
<input type="text"/>	14400	IN	Select
<input type="text"/>	14400	IN	Select
<input type="text"/>	14400	IN	Select

Always accept mail locally even if the primary mx does not point to this server.

- Select
- A
- A6
- AAAA
- AFSDB
- CNAME
- DNAME
- DS
- HINFO
- LOC
- MX
- NAPTR
- NS
- PTR
- RP
- SRV
- TXT



Improved Internal PHP Security Model

PHP used for serving cPanel pages and 3rd party apps

- Restricted configuration options per application
- PHP configuration can be modified to support 3rd party applications
- Improved security through strict file ownership for 3rd party applications



Hop on Board

3rd party application transfer scripts have been improved.

Transfer assistance hotline

More info:

» <http://www.cpanel.net/products/cpwhm/cpanel11/transfer-asst.htm>



Not Just Software Improvements



Increased Support Staff

We're here around the clock, 24x7x365 to ensure your business is up and running.

We're constantly evaluating and improving the performance of our team.



Improved Ticket Handling

Better queue separation for direct customers and partners means shorter wait times.



Questions?