

WHM Scripts

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Overview

When cPanel & WHM installs, cPanel-provided scripts become available in your server's `/usr/local/cpanel/scripts` directory. To run a script, enter its location on the command line. For example, to run the update script, run the following command:

```
/usr/local/cpanel/scripts/upcp
```



Warnings:

- When you run a script, you **must** use the script's full file path even if you run the script in the `/usr/local/cpanel/scripts` directory.
- Do **not** use scripts in the `/usr/local/cpanel/scripts` directory that we do not list in this document. You may damage your server if you run those unlisted scripts.

Scripts

Script	Description
<code>addpop</code>	Adds an email account.
<code>auto-adjust-mysql-limits</code>	<p>Updates the following MySQL® configuration values in the <i>SQL</i> section of WHM's <i>Tweak Settings</i> interface (<i>WHM >> Home >> Server Configuration >> Tweak Settings</i>):</p> <ul style="list-style-type: none">• <i>Allow cPanel & WHM to determine the best value for your MySQL <code>open_files_limit</code> configuration?</i>• <i>Allow cPanel & WHM to determine the best value for your MySQL <code>max_allowed_packet</code> configuration?</i>• <i>Allow cPanel & WHM to determine the best value for your MySQL <code>innodb_buffer_pool_size</code> configuration?</i> <p>For more information, read our The auto-adjust-mysql-limits Script documentation.</p>
<code>backups_clean_metadata_for_missing_backups</code>	<p>Removes the metadata for backup files that a user manually removed from the system.</p> <p>For more information, read our The backups_clean_metadata_for_missing_backups Script documentation.</p>
<code>backups_create_metadata</code>	<p>Creates metadata files for all backup types.</p> <p>For more information, read our The backups_create_metadata Script documentation.</p>
<code>backups_list_user_files</code>	<p>This script locates a user's files in compressed, uncompressed, or incremental backups. The script returns all files in the backups in Comma Separated Value (CSV) format.</p> <p>For more information, read our The backups_list_user_files Script documentation.</p>
<code>backup_restore_manager</code>	<p>This script manages the backup restoration queue.</p> <p>For more information, read our The backup_restore_manager Script documentation.</p> <div><p> Note: This script resides in the <code>/usr/local/cpanel/bin</code> directory.</p></div>
<code>build_maxemails_config</code>	Sets limits on the amount of email that users can send from domains on your server. For more information about this script's limits, read our Mail Limiting Features documentation.

<p>check_users_my_cnf</p>	<p>Checks user accounts for ~/.my.cnf files that do not work, and disable them. This script only returns output when it detects a bad .my.cnf file.</p> <div style="border: 1px solid #f9e79f; padding: 10px;"> <p> Note:</p> <p>For more information, run the following command:</p> <pre style="border: 1px solid #ccc; padding: 5px;">/usr/local/cpanel/scripts/check_users_my_cnf --help</pre> </div>
<p>checkallsslcerts</p>	<p>Installs or updates a cPanel-signed hostname certificate. For more information, read our The checkallsslcerts Script documentation.</p> <div style="border: 1px solid #f9e79f; padding: 10px;"> <p> Note:</p> <p>This script resides in the /usr/local/cpanel/bin directory.</p> </div>
<p>chkmydns</p>	<p>Performs a simple configuration check of MyDNS.</p>
<p>cleansessions</p>	<p>Removes various session files for the following applications:</p> <ul style="list-style-type: none"> • phpMyAdmin • phpPgAdmin • Horde • Roundcube • SquirrelMail <p>Removes the following expired files:</p> <ul style="list-style-type: none"> • cPanel Password Reset session and flood protect files. • cPanel Subaccount Invitation session and flood protect files. <div style="border: 1px solid #f9e79f; padding: 10px;"> <p> Note:</p> <p>For more information, run the following command:</p> <pre style="border: 1px solid #ccc; padding: 5px;">/usr/local/cpanel/scripts/cleansessions --help</pre> </div>
<p>clean_up_temp_wheel_users</p>	<p>Removes any temporary wheel group users that are no longer necessary for cPanel Support's access to the server.</p> <div style="border: 1px solid #f9e79f; padding: 10px;"> <p> Note:</p> <p>WHM's Grant cPanel Support Access (WHM >> Home >> Support >> Grant cPanel Support Access) and Create Support Ticket (WHM >> Home >> Support >> Create Support Ticket) interfaces can create temporary wheel users to allow cPanel Support access to your server.</p> </div>

<p>clean_user_php_sessions</p>	<p>Purges expired PHP session files from a secure temporary directory. This script checks the <code>session.gc_maxlifetime</code> and <code>session.save_path</code> variables in the global <code>php.ini</code> file and determines when to remove the PHP session files. We recommend that this script run at least once per day to remove old PHP session files.</p> <p>For more information about PHP session files, read our MultiPHP INI Editor for WHM documentation.</p> <div style="border: 1px solid #f0e68c; padding: 10px;"> <p> Notes:</p> <ul style="list-style-type: none"> • When the <code>/usr/local/cpanel/scripts/maintenance</code> script runs, the system adds the <code>/usr/local/cpanel/scripts/clean_user_php_sessions</code> script to the root user's crontab. • If you customize the <code>session.gc_maxlifetime</code> value, but do not customize the <code>session.save_path</code> value, the script will not use the <code>session.gc_maxlifetime</code> variable value. • This script only recognizes the global <code>session.gc_maxlifetime</code> PHP configuration value for each version of PHP. • If this script detects different values in the <code>session.gc_maxlifetime</code> variable, but the system stores the session data in a single location, the script will use the minimum value to determine when to purge expired session files. </div>
<p>comparecdb</p>	<p>Compares the contents of two CDB files. Specify the two CDB files that you wish to compare after the script.</p> <div style="border: 1px solid #f0e68c; padding: 10px;"> <p> Note:</p> <p>For example, run the following command, where <code>file1</code> and <code>file2</code> represent the two files that you wish to compare:</p> <pre style="border: 1px solid #ccc; padding: 5px; width: fit-content;">/usr/local/cpanel/scripts/comparecdb file1 file2</pre> </div>
<p>configure_rh_ipv6_firewall_for_cpanel</p>	<p>Sets up your IPv6 firewall. Any user with <code>root</code> privileges can run this script. Run this script if either of the following statements are true:</p> <ul style="list-style-type: none"> • You do not manage your IPv6 firewall rules with any other tools or utilities. • You cannot connect to your IPv6 addresses or IPv6-enabled websites on port 80. <div style="border: 1px solid #f0e68c; padding: 10px;"> <p> Notes:</p> <ul style="list-style-type: none"> • The rules that this script creates remain active even if you reboot the server. • Due to the way in which CentOS 7, CloudLinux™ 7, and Red Hat® Enterprise Linux (RHEL) 7 manage firewalls, we do not recommend that you use this script if your server uses one of those operating systems. </div> <p>This script performs the following actions:</p> <ul style="list-style-type: none"> • Opens port 22 for SSH. • Opens port 53 for DNS. • Opens port 80 for HTTP.
<p>convert_accesshash_to_token</p>	<p>Converts a WHM user's access hash to an API token. For more information, read our The convert_accesshash_to_token Script documentation.</p>
<p>convert_mdbox_to_maildir</p>	<p>Converts mailboxes from mdbox format to maildir format. For more information, read our The Mailbox Format Conversion Scripts documentation.</p>
<p>convert_roundcube_mysql2_sqlite</p>	<p>Converts the Roundcube database from MySQL® to SQLite.</p> <div style="border: 2px solid #f00; padding: 10px;"> <p> Warning:</p> <p>You may need to convert individual accounts, even after the database conversion. To convert individual cPanel accounts that use Roundcube to SQLite, add the username as the parameter:</p> <pre style="border: 1px solid #ccc; padding: 5px; width: fit-content;">/usr/local/cpanel/scripts/convert_roundcube_mysql2sqlite user</pre> </div>
<p>copy-etc-files</p>	<p>Creates customized copies of your <code>/etc/bashrc</code>, <code>/etc/issue</code>, and <code>/etc/issue.net</code> files in the <code>/etc</code> directory.</p>

cpbackup	Backs up all accounts.
delpop	Removes a POP account.
dovecot_maintenance	<p>Runs nightly and deletes messages from trash folders that are older than the <i>Trash Expire Time</i> value in WHM's Mailserver Configuration interface (<i>WHM >> Home >> Service Configuration >> Mailserver Configuration</i>). To activate this script, select the <i>Auto Expunge Trash</i> checkbox.</p> <p>It also cleans out invalid usernames from the database tables.</p>
dumpcddb	<p>Displays the contents of a CDB file. Specify the CDB file that you wish to view.</p> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p> Note:</p> <p>For example, run the following command, where <code>file</code> represents the file that you wish to view:</p> <pre style="border: 1px solid #ccc; padding: 5px; width: fit-content; margin: 5px auto;">/usr/local/cpanel/scripts/dumpcddb file</pre> </div>
easyapache	Upgrades and reinstalls Apache.
email_hold_maintenance	Removes the tracking file for email holds released or deleted from the mail queue.
empty_user_trash	<p>Purges files from <code>.trash</code> folders in user home directories that are older than the <i>Age of content to purge from users' File Manager Trash</i> setting in the <i>System</i> section of the WHM's Tweak Settings interface (<i>WHM >> Home >> Server Configuration >> Tweak Settings</i>).</p> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p> Notes:</p> <ul style="list-style-type: none"> This script runs as a part of the nightly maintenance script. This script exists in the <code>/usr/local/cpanel/bin/</code> directory. </div>
enable_spf_dkim_globally	Enables SPF and DKIM for every cPanel user on the server, and then creates SPF and DKIM records for all of these users' domains. For more information, read our The SPF and DKIM Global Settings Script documentation.
eximstats_spam_check	<p>Scans the <code>eximstats</code> database and counts the number of emails that every domain on the server has sent in the previous hour. If a domain has exceeded the preconfigured threshold of unique outbound messages (excluding mailing lists), the system will log an alert.</p> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p> Note:</p> <p>You can configure the threshold value of unique outbound messages in WHM's Tweak Settings interface. This setting defaults to a threshold of 500 unique outbound messages.</p> </div>
exportmydnssdb	Exports zones from MyDNS for use with BIND and NSD.
find_and_fix_rpm_issues	Detects issues with your server's RPM database and rebuilds the database if problems exist. For more information, read our The find_and_fix_rpm_issues Script documentation.
find_outdated_services	This script checks all services to determine whether they require a restart. An outdated service is any service that depends on a library that is no longer present on the system. For more information, read our The find_outdated_services Script documentation.
fix_addon_permissions	<p>Adjusts the permissions on cPAddon-specific files that contain sensitive information. This script only adjusts cPAddons that support the tighter security model that we introduced in cPanel & WHM version 64.</p> <div style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p> Note:</p> <p>Some cPAddons possess security-sensitive files, such as files that contain passwords in clear text. cPAddons that exist on servers that do not use the <code>mpm-itk</code>, <code>mod_ruid2</code>, or <code>mod_suphp</code> modules require additional file permission adjustments to prevent security issues between users. For security reasons, we do not recommend that you install any cPAddons on shared hosting servers without one of these modules.</p> </div>
fixmailinglistperms	Repairs permissions for all mailing list files and directories.

fixndc	<p>Resolves <code>ndc</code> connection refused errors. To correctly use this script, run the following commands:</p> <pre> /scripts/upcp /scripts/fixndc /scripts/fixndc </pre> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p> Important:</p> <p>You must run the <code>/scripts/fixndc</code> script twice.</p> </div>
gather-update-logs	Sends update logs to cPanel, Inc. for analysis.
hook	Executes any hooks that the system would normally call in the specified context.
importmydnsdb	Imports zone information from BIND and NSD into MyDNS.
install_cpaddons	<p>Manages the cPAddons third-party software packages.</p> <div style="border: 1px solid yellow; padding: 5px; margin-top: 10px;"> <p> Notes:</p> <ul style="list-style-type: none"> This script runs as a part of the nightly maintenance script. This script exists in the <code>/usr/local/cpanel/bin/</code> directory. </div>
install_dovecot_fts	Enables Internet Message Access Protocol (IMAP) Full-Text Search (FTS) Indexing (powered by Apache Solr™), which provides fast search capabilities for IMAP mailboxes. For more information, read our The install_dovecot_fts Script documentation.
install_plugin	<p>Installs a cPanel plugin. For more information, read the Guide to cPanel Plugins documentation.</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p> Important:</p> <p>Due to the permissions that the <code>/usr/local/cpanel/scripts/install_plugin</code> script requires in order to access the necessary files, only the <code>root</code> user can run this script successfully.</p> </div>
installpostgres	Installs PostgreSQL®.
installruby	<p>Installs Ruby.</p> <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"> <p> Important:</p> <p>We deprecated this script in cPanel & WHM version 66.</p> </div>
installzendoptimizers	Installs and activates Zend Optimizer™.
is_script_stuck	<p>Checks how long a script's current PID has run, and can notify a WHM user or kill the process. For more information, read our The is_script_stuck Script documentation.</p> <div style="border: 1px solid yellow; padding: 5px; margin-top: 10px;"> <p> Note:</p> <p>This script resides in the <code>/usr/local/cpanel/bin</code> directory.</p> </div>
maintenance	<p>Performs system updates, and terminates the processes that you specify in WHM's Background Process Killer interface (<i>WHM >> Home >> System Health >> Background Process Killer</i>).</p> <div style="border: 1px solid yellow; padding: 5px; margin-top: 10px;"> <p> Note:</p> <p>This script runs as a part of the <code>/usr/local/cpanel/scripts/upcp</code> script.</p> </div>

manage_greylisting	Manages the cPanel Greylisting service. For more information, read The manage_greylisting Script documentation.
modsec_vendor	Lists, adds, removes, or updates ModSecurity™ vendors.
modify_accounts	<p>Updates the theme for specific accounts on the server.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #fff9c4;"> <p> Note:</p> <p>For more information, read the scripts/modify_accounts documentation or run the following command:</p> <pre style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;">/usr/local/cpanel/scripts/modify_accounts --help</pre> </div>
modify_packages	<p>Updates the theme for specific packages located on the server.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #fff9c4;"> <p> Note:</p> <p>For more information, read the scripts/modify_packages documentation or run the following command:</p> <pre style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;">/usr/local/cpanel/scripts/modify_packages --help</pre> </div>
onboot_handler	<p>Runs any scripts found in the <code>/var/cpanel/on_boot</code> or <code>/usr/local/cpanel/bin/on_boot</code> directories when the server boots.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #fff9c4;"> <p> Note:</p> <p>Any scripts that you add to the <code>/var/cpanel/on_boot</code> and <code>/usr/local/cpanel/libexec/on_boot</code> directories automatically run each time that the system reboots.</p> </div> <p>For more information, read our The onboot_handler Script documentation.</p>
php_fpm_config	Installs configuration files when you manually edit the PHP-FPM configuration files.
phpextensionmgr	Manages PHP extensions.
pkgacct	Handles cPanel packages. For more information, read our /scripts/pkgacct — Package a cPanel account documentation.
process_site_templates	Processes template files and user-provided data to create an Site Publisher website.
purge_modsec_log	Removes stale records from the <code>modsec</code> database.
realperlinstaller	Automates the installation of CPAN modules.
rebuild_dbmap	Rebuilds a user's corrupted database map.
rebuild_phpconf	<p>Manages your server's default PHP version and PHP handlers in EasyApache 4. For more information, read our The rebuild_phpconf Script documentation.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #fff9c4;"> <p> Note:</p> <p>This script exists in the <code>/usr/local/cpanel/bin/</code> directory.</p> </div>
rebuild_available_rpm_addons_cache	Rebuilds the available RPM-based cPAddons cache in the <code>/var/cpanel/available_rpm_addons.cache</code> file.
rebuild_whm_chrome	Rebuilds the PHP cache of the WHM interface's chrome. For more information, read our Guide to WHM Plugins documentation.

remove_dovecot_index_files	Removes the Dovecot® index logs and cache files from cPanel mail accounts. For more information, read our The remove_dovecot_index_files Script documentation.
removeacct	Removes a cPanel account.
rescan_user_dovecot_fts	Performs a full text search (FTS) scan on an account's mailboxes. For more information, read our The rescan_user_dovecot_fts Script documentation.
restartsrv_*	Restarts a service. For more information, read our The restartsrv Scripts documentation.
restorepkg	Restores a package. For more information, read our The restorepkg Script documentation.
rpmup	Updates system software for all users.
runstatsonce	Updates statistics for all users.
runweblogs	Updates statistics for a user.
securemysql	Secures a cPanel account's MySQL® configuration. For more information, read our The securemysql Script documentation.
set_php_memory_limits	Adjusts the <code>memory_limit</code> directive for all versions of PHP installed in the <code>/opt/cpanel/</code> directory based on the server's available memory. For more information, read WHM's MultiPHP INI Editor interface (<i>WHM >> Home >> Software >> MultiPHP INI Editor</i>) documentation. <div style="border: 1px solid #ffc107; padding: 10px; margin-top: 10px;"> <p> Notes:</p> <ul style="list-style-type: none"> This script only applies to systems that run EasyApache 4. You must use the <code>--run</code> flag. </div>
set-tls-settings	Configures a server's Secure Socket Layer (SSL) and Transport Layer Security (TLS) cipher suites and protocols for the following services: <ul style="list-style-type: none"> Web Disk (<code>cpdavd</code>). The cPanel server (<code>cpsrvd</code>). The Dovecot mail server (<code>dovecot</code>). For more information, read our The set-tls-settings Script documentation.
setupftpsrv	Allows you to select your server's FTP server, configure anonymous FTP services, or disable FTP services. For more information, read our The setupftpsrv script documentation.
setup_greylist_db	Creates the <code>greylist</code> SQLite database and allows you to add common email services to the trusted hosts list.
setup_modsec_db	Creates the <code>modsec</code> MySQL database and user.
setupmailserver	Allows you to switch between mail servers. <div style="border: 1px solid #dc3545; padding: 10px; margin-top: 10px;"> <p> Important:</p> <p>We removed the Courier mail server in cPanel & WHM version 54. cPanel & WHM only ships with the Dovecot mail server.</p> </div>
setupnameserver	Allows you to switch between DNS servers.
slurp_exim_mainlog	Imports <code>exim mainlog</code> data into the <code>eximstats</code> database.
suspendacct	Suspends an account.

swapip	<p>This script allows you to specify parameters from the command line in order to update DNS records.</p> <p>For more information, read our The swapip Script documentation.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #fff9c4;"> <p> Note:</p> <p>This script exists in the <code>/usr/local/cpanel/bin</code> directory.</p> </div>
try-later	Executes a user-defined <code>check</code> command at a specified interval. If the <code>check</code> command returns an error, it retries as often as the <code>max-retries</code> parameter allows. When the check succeeds, a user-defined <code>action</code> command runs. You can use this script with the following options:
<code>--at</code>	Allows you to specify a delay (in an interval other than minutes) after which to run the <code>check</code> and <code>action</code> commands. If you set this option, then the <code>try-later</code> command will pass directly to the <code>at</code> command. To learn more about the <code>at</code> command, visit its man page .
<code>--action</code>	Runs when the <code>check</code> command succeeds.
<code>--act-finally</code>	Runs the <code>action</code> command when retries are exhausted.
<code>--check</code>	Determines whether the <code>action</code> command will run.
<code>--delay</code>	Allows you to specify a delay (in minutes) after which to run the <code>check</code> and <code>action</code> commands. This value defaults to 5. If you set this option, then it overrides the <code>--at</code> option.
<code>--help</code>	Displays a brief help message.
<code>--max-retries</code>	Allows you to specify the maximum number of retry attempts before you run the <code>action</code> command. This value defaults to unlimited.
<code>--skip-first</code>	Skips the initial <code>check</code> command.
uninstall_plugin	Uninstalls a cPanel plugin. For more information, read our Uninstall Plugins documentation.
unlink_service_account	Restores a service account to an unlinked state.
	<div style="border: 1px solid #ccc; padding: 10px; background-color: #fff9c4;"> <p> Note:</p> <p>For more information, run the following command:</p> <pre style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;">/scripts/unlink_service_account --help</pre> </div>
unsuspendacct	Unsuspects an account.
*up	Updates a service. We currently provide several scripts that use this format to update a service.
cpaddon sup	Updates the cPAddons scripts.
phpup	Updates the current version of PHP.
suphpup	Updates the suPHP tool to handle PHP requests.
upcp	Updates cPanel & WHM.
	<div style="border: 1px solid #ccc; padding: 10px; background-color: #fff9c4;"> <p> Note:</p> <p>When you use the <code>--force</code> option, the system executes the <code>yum clean all</code> command before it runs the <code>yum update</code> command.</p> </div>
upcp-running	Specifies whether a <code>upcp</code> command runs. This information displays in text output and the script's exit value. By default, a zero exit value signals that the target <code>upcp</code> command currently runs.
<code>--help</code>	Displays a brief help message.

<code>--invert-exit</code>	Exits with a non-zero error value (1) if the target <code>upcp</code> command currently runs.
<code>upgrade_subaccount_databases</code>	Verifies and upgrades the Subaccount database table schemas for each cPanel account. <div style="border: 1px solid #f9c77f; padding: 10px; margin: 10px 0;"><p> Note: For more information, run the following command:</p><pre style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;">/usr/local/cpanel/scripts/upgrade_subaccount_databases --help</pre></div>
<code>wwwacct</code>	Adds a cPanel account. For more information, read our The wwwacct Script documentation

Additional documentation

- [WHM Scripts](#)
- [Tweak Settings - System](#)
- [The find_outdated_services Script](#)
- [Installation Guide - Customize Your Installation](#)
- [The is_script_stuck Script](#)