

WHM API 1 Functions - modsec_deploy_all_rule_changes

Guide to WHM API 1

- Return Data
- Filter Output
- Sort Output
- Paginate Output
- Output Columns
- Call cPanel API 2 and UAPI

Description

This function deploys the staged changes for all of the ModSecurity™ configuration files into the live configuration files. After the function deploys the configuration files, it restarts Apache. If the new configuration is invalid, the system restores the original configuration and preserves the staged changes.

Important:

In cPanel & WHM version 76 and later, when you disable the `WebServerRole`, the system **disables** this function. For more information, read our [How to Use Server Profiles](#) documentation.

Examples

JSON API

```
https://hostname.example.com:2087/cpsess#####/json-api/modsec_deploy_all_rule_changes?api.version=1
```

XML API

```
https://hostname.example.com:2087/cpsess#####/xml-api/modsec_deploy_all_rule_changes?api.version=1
```

- Account Restoration
- restore_modules_summary
- restore_queue_activate
- restore_queue_add_task
- restore_queue_clear_all_completed_tasks
- restore_queue_clear_all_failed_tasks
- restore_queue_clear_all_pending_tasks
- restore_queue_clear_all_tasks
- restore_queue_clear_completed_task
- restore_queue_clear_pending_task
- restore_queue_is_active
- restore_queue_list_active
- restore_queue_list_completed
- restore_queue

Function Information

About WHM API 1

WHM API 1 performs functions and accesses data in WHM.

Notes:

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- us
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- or
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ue_list_pending
restore_queue_state
restoreaccount
verify_new_username_or_restore

Accounts

accountsummary
applist
createacct
domainuserdata
editquota
forcepasswordchange
get_disk_usage
get_domain_info
getdomainowner
has_digest_auth
has_mycnf_for_cpuser
limitbw
list_users
listaccts
listlockedaccounts
listsuspended
modifyacct
myprivs
passwd
quota_enabled
removeacct
set_digest_auth
showbw
suspendacct
unsuspendacct
untrack_acct

Command Line

```
whmapil  
modsec_deploy_all_rule_changes
```

Notes:

- Unless otherwise noted, you **must** URI-encode values.
- For more information and additional output options, read our [Guide to WHM API 1](#) documentation or run the `whmapil --help` command.
- If you run CloudLinux™, you **must** use the full path of the `whmapil` command:

```
/usr/local  
/cpanel/bin/whmapil
```

Find a function

- WHM API 1 Functions - modsec_add_rule — This function adds a new rule to a Mod Security™ configuration staging file.

- _id
- verify_new_username
- convert_add
 - on_fetch_conversion_details
 - convert_add
 - on_fetch_domain_details
 - convert_add
 - on_get_conversion_status
 - convert_add
 - on_initiate_conversion
 - convert_add
 - on_list_add_domains
 - convert_add
 - on_list_conversions
 - api_token_create
 - api_token_list
 - api_token_revoke
 - api_token_update
 - disable_authentication_provider
 - disable_failing_authentication_providers
 - enable_authentication_provider
 - get_available_authentication_providers
 - get_login_url
 - get_provider_client_configurations
 - get_provider_configuration_fields
 - get_provider_display_co

Output (JSON)

```

{
  "data": {
    "outcomes": [
      {
        "ok": 1,
        "config": "modsec2.user.conf"
      },
      {
        "ok": 1,
        "config": "modsec_vendor_configs/MyVendor/one.conf"
      }
    ],
    "metadata": {
      "version": 1,
      "reason": "OK",
      "result": 1,
      "command": "modsec_deploy_all_rule_changes"
    }
  }
}

```

- WHM API 1 Functions - modsec_assemble_config_text
 - This function adds text to a Mod Security™ configuration file.
 - WHM API 1 Functions - modsec_add_vendor_or — This function adds a new Mod Security™ vendor or rule set to the server.

nfigurations
 get_users_authn_linked_accounts
 link_user_authn_provider
 set_provider_client_configurations
 set_provider_display_configurations
 twofactorauth_disable_policy
 twofactorauth_enable_policy
 twofactorauth_generate_tfa_config
 twofactorauth_get_issuer
 twofactorauth_get_user_configs
 twofactorauth_policy_status
 twofactorauth_remove_user_config
 twofactorauth_set_issuer
 twofactorauth_set_tfa_config
 unlink_user_authn_provider
 validate_login_token

Output (XML)

```

<result>
  <data>
    <outcomes>

    <ok>1</ok>

    <config>modsec2.user.conf</config>
    </outcomes>
    <outcomes>

    <ok>1</ok>

    <config>modsec_vendor_configs/MyVendor/one.conf</config>
    </outcomes>
  </data>
  <metadata>

  <version>1</version>

  <reason>OK</reason>

  <result>1</result>

  <command>modsec_deploy_all_rule_changes</command>
  </metadata>
</result>
  
```

Note:
 Use WHM's *API Shell* interface (*WHM >> Home >> Development >> API Shell*) to directly test WHM API calls.

- WHM API 1 Functions - modsec_clone_rule - This function copies a Mod Security™ rule with a new rule ID.

Backups

backup_config_get
 backup_config_set
 backup_data_list
 backup_destination_add
 backup_destination_delete

Parameters

This function does not accept parameters.

Returns

Return	Type	Description	Possible values	Example
--------	------	-------------	-----------------	---------

backup_destination_get
 backup_destination_list
 backup_destination_set
 backup_destination_validate
 backup_get_transport_status
 backup_list_transported
 backup_set_list
 backup_set_list_combined
 backup_skip_users_all
 backup_skip_users_all_status
 backup_user_list
 convert_and_migrate_from_legacy_config
 get_users_with_backup_metadata
 list_cparchive_files
 start_background_package
 toggle_user_backup_state

▼ cPHulk

cphulk_statuses
 create_cphulk_record
 delete_cphulk_record
 disable_cphulk
 enable_cphulk
 flush_cphulk_login_history

outcomes	array	An array of information about the configuration deployment.	This array includes the config, ok, and exception returns.	
config	string	<p>The file path to the configuration file.</p> <p>The function returns this value in the outcomes array.</p>	<ul style="list-style-type: none"> • EasyApache 3 — A valid path, relative to the /usr/local/apache/conf/ directory. • EasyApache 4 and cPanel & WHM version 56 or earlier — A valid path, relative to the /etc/apache2/conf.d/ directory. • EasyApache 4 and cPanel & WHM version 58 or later — A valid path, relative to the /etc/apache2/conf.d/modsec/ directory. 	modsec_vendor_configs/MyVendor/one.conf
ok	Boolean	<p>Whether the rule change deployment succeeded.</p> <p>The function returns this value in the outcomes array.</p>	<ul style="list-style-type: none"> • 1 — Successful deployment. • 0 — Unsuccessful deployment. 	1

- flush_cphulk_login_history_for_ips
- get_countries_with_known_ip_ranges
- get_cphulk_brutes
- get_cphulk_excessive_brutes
- get_cphulk_failed_logins
- get_cphulk_user_brutes
- load_cphulk_config
- read_cphulk_records
- save_cphulk_config
- set_cphulk_config_key
- ▼ Databases
- background_mysql_upgrade_status
- current_mysql_version
- installable_mysql_versions
- latest_available_mysql_version
- list_database_users
- list_databases
- list_mysql_databases_and_users
- remote_mysql_create_profile
- remote_mysql_create_profile_via_ssh
- remote_mysql_delete_profile
- remote_mysql_initiate_profile_activation

<p>exception</p>	<p>string</p>	<p>The error message for a failed deployment.</p> <p>The function returns this value in the <code>outcomes</code> array.</p> <div style="border: 1px solid orange; padding: 5px; margin: 10px 0;"> <p>Note: The function only returns this output if an error occurs.</p> </div>	<p>The reason for failure.</p>	<p>▼ Click to view...</p> <pre>The system could not deploy changes for "modsec_vendor_configs/MyVendor/one.conf": The system could not validate the new Apache configuration, because httpd exited with a nonzero value. Apache produced the following error: httpd: Syntax error on line 37 of /usr/local/apache/conf/httpd.conf: Syntax error on line 26 of /usr/local/apache/conf/modsec2.conf: Syntax error on line 27 of /usr/local/apache/conf/cpanel.conf: Could not open configuration file /usr/local/apache/conf/modsec_vendor_configs/MyVendor/one.conf: No such file or directory\n\n\n</pre>
<p>failed</p>	<p>array</p>	<p>The list of configuration files that the system could not deploy.</p> <div style="border: 1px solid orange; padding: 5px; margin: 10px 0;"> <p>Note: The function only returns this value if an error occurs.</p> </div>	<p>An array of file names.</p>	<pre>modsec_vendor_configs/MyVendor/one.conf</pre>

ion

remote_mysql_monitor_profile_activation

remote_mysql_read_profile

remote_mysql_read_profiles

remote_mysql_update_profile

remote_mysql_validate_profile

rename_mysql_database

rename_mysql_user

rename_postgresql_database

rename_postgresql_user

set_local_mysql_root_password

set_mysql_password

set_postgresql_password

start_background_mysql_upgrade

▼ DNS

adddns

addzonerecord

addzonerecord
(Reverse DNS)

dumpzone

editzonerecord

get_nameserver_config

getzonerecord

has_local_authority

killdns
listmxs
listzones
lookupnsip
lookupnsips
removezone
record
resetzone
resolvedom
ainname
savemxs
setresolvers
update_nam
eservers_co
nfig

▼ EasyApache

ea4_get_cur
rently_install
ed_packages

ea4_get_ea
_pkgs_state

ea4_list_pro
files

ea4_metainf
o

ea4_migrati
on

ea4_pre_mi
grate_check

ea4_recom
mendations

ea4_save_p
rofile

ea4_tomcat
85_add

ea4_tomcat
85_list

ea4_tomcat
85_rem

▼ Greylisting

cpgreylist_is
_server_net
block_truste
d

cpgreylist_li
st_entries_f
or_common
_mail_provid
er

cpgreylist_lo
ad_common
_mail_provid

ers_config

cpgreylist_s
ave_commo
n_mail_provi
ders_config

cpgreylist_st
atus

cpgreylist_tr
ust_entries_
for_common
_mail_provid
er

cpgreylist_u
ntrust_entrie
s_for_comm
on_mail_pro
vider

create_cpgr
eylist_truste
d_host

delete_cpgr
eylist_truste
d_host

disable_cpgr
eylist

enable_cpgr
eylist

load_cpgreyl
ist_config

read_cpgrey
list_deferred
_entries

read_cpgrey
list_trusted_
host

save_cpgrey
list_config

▼ Integration

batch

cpanel

create_integ
ration_group

create_integ
ration_link

get_integrati
on_link_user
_config

list_integrati
on_groups

list_integrati
on_links

remove_inte
gration_grou
p

remove_inte

gration_link

update_inte
gration_link
_token

▼ IP Addresses

addips

delip

get_public_i
p

get_shared_
ip

ipv6_disable
_account

ipv6_enable
_account

ipv6_range_
add

ipv6_range_
edit

ipv6_range_
list

ipv6_range_
remove

ipv6_range_
usage

listips

nat_checkip

nat_set_pub
lic_ip

setsiteip

▼ Mail

disable_dki
m

disable_mail
_sni

emailtrack_s
earch

emailtrack_s
tats

emailtrack_u
ser_stats

enable_dkim

enable_mail
_sni

ensure_dki
m_keys_exi
st

exim_config
uration_che
ck

expunge_m

mailbox_messages

expunge_messages_for_mailbox_guid

fetch_dkim_private_keys

fetch_mail_queue

generate_mobileconfig

get_mailbox_status

get_mailbox_status_list

get_unique_recipient_count_per_sender_for_user

get_unique_sender_recipient_count_per_user

get_user_email_forward_destination

hold_outgoing_email

install_dkim_private_keys

install_spf_records

is_sni_supported

list_pops_for

mail_sni_status

rebuild_mail_sni_config

release_outgoing_email

save_spamd_config

set_user_email_forward_destination

suspend_outgoing_email

unsuspend_outgoing_email

validate_currency_installed_exim_configuration

validate_currency_dkims

validate_currency_ptrs

validate_currency_spfs

validate_exim_configuration_syntax

▼ Market

disable_market_provider

enable_market_provider

get_adjusted_market_providers_products

get_market_providers_commission_config

get_market_providers_list

get_market_providers_product_metadata

get_market_providers_products

set_market_product_attribute

set_market_provider_commission_id

▼ ModSecurity™

modsec_add_rule

modsec_add_vendor

modsec_assemble_configuration_text

modsec_batch_settings

modsec_check_rule

modsec_clone_rule

modsec_de
ploy_all_rule
_changes

modsec_de
ploy_rule_ch
anges

modsec_de
ploy_setting
s_changes

modsec_dis
able_rule

modsec_dis
able_vendor

modsec_dis
able_vendor
_configs

modsec_dis
able_vendor
_updates

modsec_dis
card_all_rul
e_changes

modsec_dis
card_rule_c
hanges

modsec_edit
_rule

modsec_en
able_vendor

modsec_en
able_vendor
_configs

modsec_en
able_vendor
_updates

modsec_get
_config_text

modsec_get
_configs

modsec_get
_configs_wit
h_changes_
pending

modsec_get
_log

modsec_get
_rules

modsec_get
_settings

modsec_get
_vendors

modsec_is_i
nstalled

modsec_ma
ke_config_a
ctive

modsec_make_config_inactive

modsec_preview_vendor

modsec_remove_rule

modsec_remove_setting

modsec_remove_vendor

modsec_report_rule

modsec_set_config_text

modsec_set_setting

modsec_disable_rule

modsec_update_vendor

▼ Packages

_getpkgextensionform

add_override_features_for_user

addpkg

addpkgext

changepackage

create_feature_relist

delete_feature_relist

delpkgext

editpkg

get_available_applications

get_available_featurelists

get_feature_metadata

get_feature_names

get_featurelist_data

get_featureli

sts

get_users_f
eatures_sett
ings

getfeaturelis
t

getpkginfo

killpkg

listpkgs

manage_fea
tures

matchpkgs

read_feature
list

remove_ove
rride_featu
res_for_user

update_feat
urelist

verify_user_
has_feature

▼ PHP

convert_all_
domains_to
_fpm

get_fpm_co
unt_and_util
ization

is_conversio
n_in_progre
ss

php_get_def
ault_accoun
ts_to_fpm

php_get_ha
ndlers

php_get_im
pacted_dom
ains

php_get_ins
talled_versio
ns

php_get_old
_fpm_flag

php_get_sys
tem_default
_version

php_get_vh
osts_by_ver
sion

php_get_vh
ost_versions

php_ini_get
_content

php_ini_get
_directives

php_ini_set
_content

php_ini_set
_directives

php_set_def
ault_accoun
ts_to_fpm

php_set_ha
ndler

php_set_old
_fpm_flag

php_set_ses
sion_save_p
ath

php_set_sys
tem_default
_version

php_set_vh
ost_versions

▼ Resellers

acctcounts

get_public_c
ontact

getresellerip
s

listacIs

listresellers

resellerstats

saveacllist

set_public_c
ontact

setacIs

setresellerip
s

setresellerli
mits

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ainip

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ameservers

setresellerp
ackagelimit

setupreselle
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suspendres
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terminateres
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unsetuprese

ller

unsuspendr
eseller

▼ RPM

delete_rpm_
version

edit_rpm_ve
rsion

get_rpm_ver
sion_data

install_rpm_
plugin

list_rpms

package_m
anager_fixc
ache

package_m
anager_get_
build_log

package_m
anager_get_
package_inf
o

package_m
anager_is_p
erforming_a
ctions

package_m
anager_list_
packages

package_m
anager_reso
lve_actions

package_m
anager_sub
mit_actions

package_m
anager_upgr
ade

uninstall_rp
m_plugin

▼ Script Hooks

delete_hook

edit_hook

list_hooks

reorder_hoo
ks

▼ Security

accesshash

authorizessh
key

check_remo
te_ssh_conn
ection

convertopen
sshtoputty

deletesshke
y

fetch_securi
ty_advice

generatessh
keypair

importsshke
y

listsshkeys

▼ Server

Administration

add_configcl
usterserver

configureba
ckgroundpro
cesskiller

configureser
vice

cors_proxy_
get

create_user
_session

delete_confi
gclusterserv
er

enable_mon
itor_all_ena
bled_service
s

get_all_cont
act_importa
nces

get_appconf
ig_applicatio
n_list

get_applicati
on_contact_
event_import
tance

get_applicati
on_contact_
importance

get_availabl
e_profiles

get_current_
profile

get_passwor
d_strength

get_remote_
access_has
h

get_service_
config

get_service_
config_key

get_tcp4_so
ckets

get_tcp6_so
ckets

get_tweakse
tting

get_udp4_s
ockets

get_udp6_s
ockets

get_update_
availability

get_users_li
nks

getdiskusag
e

gethostname

is_role_ena
bled

list_configcl
usterservers

loadavg

nvget

nvset

personalizati
on_get

personalizati
on_set

purchase_a
_license

reboot

remove_in_
progress_ex
im_config_e
dit

restartservic
e

restore_conf
ig_from_file

restore_conf
ig_from_upl
oad

run_cpkeyclt

send_test_p
osturl

send_test_p
ushbullet_n
ote

servicestatu

s

set_applicati
on_contact_
event_imp
ortance

set_applicati
on_contact_
importance

set_primary
_servernam
e

set_service_
config_key

set_tweakse
tting

sethostname

setminimum
passwordstr
engths

start_profile
_activation

system_nee
ds_reboot

systemloada
vg

update_conf
igclusterserv
er

update_cont
act_email

verify_aim_a
ccess

verify_icq_a
ccess

verify_oscar
_access

verify_postu
rl_access

verify_pushb
ullet_access

▼ SSL

disable_aut
ossl

fetch_servic
e_ssl_comp
onents

fetch_ssl_ce
rtificates_for
_fqdns

fetch_ssl_vh
osts

fetch_vhost
_ssl_compo
nents

fetchcrtinfo
fetchsslinfo
generatessl
get_autoss
_check_sch
edule
get_autoss
_log
get_autoss
_logs_catalo
g
get_autoss
_metadata
get_autoss
_pending_q
ueue
get_autoss
_pending_q
ueue_for_do
main
get_autoss
_pending_q
ueue_for_us
er
get_autoss
_problems_f
or_domain
get_autoss
_problems_f
or_user
get_autoss
_providers
get_best_ssl
domain_for_
service
install_servi
ce_ssl_certif
icate
installssl
listcrts
rebuildinstall
edssldb
rebuildusers
sldb
reset_autos
sl_provider
reset_servic
e_ssl_certifi
cate
set_autoss_
metadata
set_autoss_
metadata_k
ey

set_autossl_
provider

start_autossl_
check_for_
all_users

start_autossl_
check_for_
one_user

▼ Styles and Themes

generate_cp
anel_plugin

list_styles

load_style

remove_log
o

remove_styl
e

save_style

set_default

▼ Support Tickets

ticket_creat
e_stub_ticke
t

ticket_get_s
upport_agre
ement

ticket_get_s
upport_info

ticket_grant

ticket_list

ticket_remov
e_closed

ticket_revok
e

ticket_ssh_t
est

ticket_ssh_t
est_start

ticket_updat
e_service_a
greement_a
pproval

ticket_valida
te_oauth2_c
ode

ticket_whitel
ist_check

ticket_whitel
ist_setup

ticket_whitel
ist_unsetup

▼ Transfers

abort_transf
er_session

analyze_tra
nsfer_sessio
n_remote

available_tr
ansfer_mod
ules

create_remo
te_root_tran
sfer_session

create_remo
te_user_tran
sfer_session

delete_accou
nt_archives

enqueue_tra
nsfer_item

fetch_transf
er_session_l
og

get_transfer
_session_st
ate

pause_trans
fer_session

remote_basi
c_credential
_check

retrieve_tran
sfer_session
_remote_an
alysis

start_transfe
r_session

transfer_mo
dule_schem
a

validate_sys
tem_user

▼ Updates

accept_eula

get_availabl
e_tiers

get_current_
lts_expiratio
n_status

get_lts_wex
pire

getlongterm
support

installed_ver
sions

set_cpanel_
updates

set_tier

update_upd
ateconf

version