

WHM API 1 - Return Data

Guide to WHM API 1

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

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_tasks

restore_queue_clear_pending_tasks

restore_queue_is_active

restore_queue_list_active

restore_queue_list_completed

Introduction

WHM API 1 outputs data in either JSON or XML format. The output format depends on the options that you choose when you call the function.

- We **strongly** recommend that you use [JavaScript Object Notation \(JSON\)](#).
- [Extensible Markup Language \(XML\)](#) requires additional computational resources, and has complex requirements that can cause difficulty during the development process. This API's XML output is **not** compliant with XML standards, and it may result in validation errors.

Important:

cPanel & WHM version 66 **deprecated** XML output for cPanel API 1, cPanel API 2, UAPI, WHM API 0, and WHM API 1.

- Calls for XML API output will return a deprecation warning.
- We plan to remove XML output entirely in a future version of cPanel & WHM.

For more information, read our [cPanel Deprecation Plan](#) document.

Basic return data

Both JSON and XML output return data as hashes or arrays of hashes. All WHM API 1 function output follows the following basic structure:

- A top-level hash contains the `data` and `metadata` hashes. In XML output, `<result>` tags wrap the top-level hash of output.
 - The `data` hash contains the function's output parameters.
 - The `metadata` hash contains the function's metadata parameters.

Metadata

Important:

- WHM API 1 function documentation does not include `metadata` parameters in the table of return parameter information.
- WHM API 1 calls via the command line do **not** return the metadata that other methods return if they experience errors that prevent a successful function run. To check for errors in code that calls WHM API 1 functions via the command line, validate the command line return for a nonzero exit code instead.

The `metadata` hash includes the following output parameters:

Metadata parameter	Type	Description	Possible values	Example
<code>version</code>	<i>integer</i>	The WHM API version.	For WHM API 1 functions, this value is always 1.	1
<code>reason</code>	<i>string</i>	A message of success, or a reason for failure.	<ul style="list-style-type: none">• OK• An error message.	OK

WHM API 1 Basics

About WHM API 1

WHM API 1 performs functions and accesses data in WHM.

Notes:

- Scro
- Ycmtus 20 or 20)t

Related Documentation

restore_queue_list_pending
 restore_queue_state
 restoreaccount
 verify_new_username_for_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

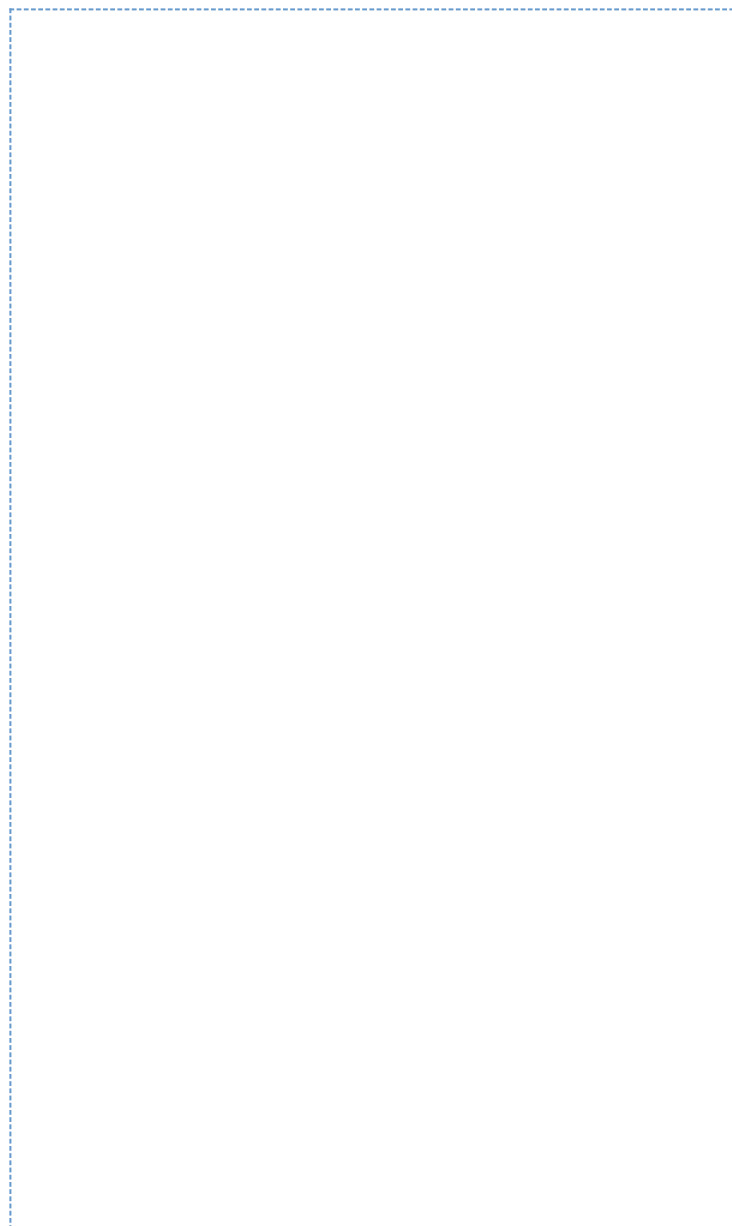
result	<i>Boolean</i>	Whether the function succeeded.	<ul style="list-style-type: none"> 1 — Success. 0 — Failure. 	1
command	<i>string</i>	The WHM API 1 function name.	Any WHM API 1 function's name.	listaccts

Note:
 If the function returns a hash with a single key whose value is an array, the metadata will include the `payload_is_literal` output parameter with a value of 1. You will **only** receive this parameter when you call WHM API's `rename_mysql_database` or `rename_mysql_user` functions, or when you call certain UAPI functions via WHM API.

Example

The `accountsummary` function's output is typical of WHM API 1 output:

JSONXML



- Guide to WHM API 1 — WHM API 1 accesses the WHM interface's features.
- WHM API 1 - Filter Output — You can use additional variables to filter WHM API 1 output.
- WHM API 1 - Sort Output — You can use additional variables to sort WHM API 1 output.

untrack_acct_id
 verify_new_username
 Addon Domains
 convert_addon_fetch_conversion_details
 convert_addon_fetch_domain_details
 convert_addon_get_conversion_status
 convert_addon_initiate_conversion
 convert_addon_list_addon_domains
 convert_addon_list_conversions
 Authentication
 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

```

{
  "data": {
    "acct": [
      {
        "maxaddons": "unlimited",
        "ip": "10.215.214.95",

"min_defer_fail_to_trigger_protection":
"5",

        "legacy_backup": 0,
        "diskused": "14M",
        "maxftp": "unlimited",
        "startdate": "13 May 22 16:03",
        "max_defer_fail_percentage":
"unlimited",
        "disklimit": "unlimited",
        "is_locked": 0,
        "suspendtime": null,
        "email": "user@example.com",
        "domain": "example.com",
        "unix_startdate": 1369256589,
        "user": "user",
        "plan": "extensions_user_user",
        "shell": "/bin/bash",
        "maxpop": "unlimited",
        "backup": 0,
        "theme": "paper_lantern",
        "owner": "root",
        "max_email_per_hour":
"unlimited",
        "ipv6": [

        ],
        "suspendreason": "not
suspended",
        "maxlst": "unlimited",
        "suspended": 0,
        "maxsql": "unlimited",
        "maxparked": "unlimited",
        "partition": "home",
        "maxsub": "unlimited"
      }
    ]
  },
  "metadata": {
    "version": 1,
    "reason": "OK",
    "result": 1,
    "command": "accountsummary"
  }
}
  
```

- WHM API 1 - Paginate Output — You can use additional variables to paginate WHM API 1 output.
- WHM API 1 - Return Data — WHM API 1 outputs data in either JSON or XML format.

_display_co
nfigurations

get_users_a
uthn_linked
_accounts

link_user_au
thn_provider

set_provider
_client_confi
gurations

set_provider
_display_co
nfigurations

twofactoraut
h_disable_p
olicy

twofactoraut
h_enable_p
olicy

twofactoraut
h_generate_
tfa_config

twofactoraut
h_get_issue
r

twofactoraut
h_get_user_
configs

twofactoraut
h_policy_sta
tus

twofactoraut
h_remove_u
ser_config

twofactoraut
h_set_issuer

twofactoraut
h_set_tfa_c
onfig

unlink_user_
authn_provi
der

validate_logi
n_token

▼ Backups

backup_conf
ig_get

backup_conf
ig_set

backup_dat
e_list

backup_dest
ination_add

backup_dest
ination_dele
te

Remember:

cPanel & WHM version 66 **deprecated** XML output.

```
<result>
  <data>
    <acct>

<maxaddons>unlimited</maxaddons>
  <ip>10.215.214.95</ip>

<min_defer_fail_to_trigger_protection>5
</min_defer_fail_to_trigger_protection>

<legacy_backup>0</legacy_backup>
  <diskused>14M</diskused>
  <maxftp>unlimited</maxftp>
  <startdate>13 May 22
16:03</startdate>

<max_defer_fail_percentage>unlimited</m
ax_defer_fail_percentage>

<disklimit>unlimited</disklimit>
  <is_locked>0</is_locked>
  <suspendtime/>

<email>user@example.com</email>
  <domain>example.com</domain>

<unix_startdate>1369256589</unix_startd
ate>
  <user>user</user>

<plan>extensions_user_user</plan>
  <shell>/bin/bash</shell>
  <maxpop>unlimited</maxpop>
  <backup>0</backup>
  <theme>paper_lantern</theme>
  <owner>root</owner>

<max_email_per_hour>unlimited</max_email_per_hour>
  <suspendreason>not
suspended</suspendreason>
  <maxlst>unlimited</maxlst>
  <suspended>0</suspended>
  <maxsql>unlimited</maxsql>

<maxparked>unlimited</maxparked>
  <partition>home</partition>
  <maxsub>unlimited</maxsub>
```

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

```
</acct>
</data>
<metadata>
  <version>1</version>
  <reason>OK</reason>
  <result>1</result>
```

flush_cphulk
_login_histo
ry_for_ips

get_countrie
s_with_kno
wn_ip_rang
es

get_cphulk_
brutes

get_cphulk_
excessive_b
rutes

get_cphulk_
failed_logins

get_cphulk_
user_brutes

load_cphulk
_config

read_cphulk
_records

save_cphulk
_config

set_cphulk_
config_key

```
<command>accountsummary</command>  
  </metadata>  
</result>
```

▼ Databases

background
_mysql_upg
rade_status

current_mys
ql_version

installable_
mysql_versi
ons

latest_availa
ble_mysql_v
ersion

list_databas
e_users

list_databas
es

list_mysql_d
atabases_a
nd_users

remote_mys
ql_create_pr
ofile

remote_mys
ql_create_pr
ofile_via_ss
h

remote_mys
ql_delete_pr
ofile

remote_mys
ql_initiate_p
rofile_activat

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

ailbox_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_config_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

setresellerm
ainip

setresellern
ameservers

setresellerp
ackagelimit

setupreselle
r

suspendres
eller

terminateres
eller

unsetuprese

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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_cpkeyctl

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_autossl
_check_schedule
get_autossl
_log
get_autossl
_logs_catalog
get_autossl
_metadata
get_autossl
_pending_queue
get_autossl
_pending_queue_for_domain
get_autossl
_pending_queue_for_user
get_autossl
_problems_for_domain
get_autossl
_problems_for_user
get_autossl
_providers
get_best_ssl
domain_for_service
install_service_ssl_certificate
installssl
listcrts
rebuildinstall
edssldb
rebuildusers
sldb
reset_autossl_provider
reset_service_ssl_certificate
set_autossl_metadata
set_autossl_metadata_key

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