

UAPI - Return Data

Guide to UAPI

- Return Data
- Filter Output
- Sort Output
- Paginate Output
- Output Columns
- Calls from the WHM API
- Custom UAPI Modules

Backup
Backup::
fullbacku

p_to_ftp

Backup:: fullbacku
p_to_homedir

Backup:: fullbacku
p_to_scp_with_key

Backup:: fullbacku
p_to_scp_with_pa
ssword

Backup:: list_back
ups

Bandwidth

Bandwidth:: get_e
nable_protocols

Bandwidth:: get_re
tention_periods

Bandwidth:: query

Batch

Batch:: strict

Brand

Brand:: read

Branding

Branding:: file

Branding:: get_app
lications

Branding:: get_app
lication_informati
on

Branding:: get_ava
ilable_applications

Branding:: get_info
rmation_for_applic
ations

Introduction

UAPI outputs data in [JavaScript Object Notation \(JSON\)](#). You can also return UAPI data in [Extensible Markup Language \(XML\)](#).

- The data structures will resemble the JSON described below.
- This API's XML output does **not** comply with XML standards, is slower than JSON output to produce, and may result in validation errors. We **strongly** recommend that you use JSON.

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](#) documentation.

Basic return data

UAPI JSON output returns as hashes, arrays of hashes, or scalar values.

For example, the `DomainInfo::domains_data` function's output resembles typical UAPI output:

```
{
  "messages": null,
  "errors": null,
  "status": 1,
  "warnings": null,
  "metadata": {
  },
  "data": {
    "addon_domains": [
      {
        "phpopenbasedirprotect": "1",
        "ip": "192.168.0.128",
        "domain": "addondomain.com",
        "usecanonicalname": "Off",
        "group": "user",
        "hascgi": "1",
        "user": "user",
        "documentroot":
"/home/user/addondomain/home/dir",
        "owner": "root",
        "userdirprotect": "",
        "ipv6": null,
        "serveralias": "addondomain.com
www.addondomain.com
```

UAPI Basi CS

About UAPI

UAPI
accesses
and
modifies
data for
cPanel
accounts.

Notes:

- Th
Fe
- int
- Ur
mi
us
20
or
20
)'.
20
or
20
)

- Branding:: image
- Branding:: include
- Branding:: spritelist
- CacheBuster
 - CacheBuster:: read
 - CacheBuster:: update
- Chkserverd
 - Chkserverd:: get_exim_ports
 - Chkserverd:: get_exim_ports_ssl
- Chrome
 - Chrome:: get_dom
- Contactus
 - Contactus:: is_enabled
- cPAddons
 - cPAddons:: get_available_addons
 - cPAddons:: get_instance_settings
 - cPAddons:: list_addon_instances
- cPGreyList
 - cPGreyList:: disable_all_domains
 - cPGreyList:: disable_domains
 - cPGreyList:: enable_all_domains
 - cPGreyList:: enable_domains
 - cPGreyList:: has_greylisting_enabled
 - cPGreyList:: list_domains
- DAV
 - DAV:: disable_shared_global_addressbook
 - DAV:: enable_shared_global_addressbook
 - DAV:: get_calendar_contacts_config
 - DAV:: has_shared_global_addressbook
 - DAV:: is_dav_service_enabled

```

www.subdomain.example.com",
    "homedir": "/home/user",
    "servername":
"subdomain.example.com",
    "type": "addon_domain",
    "serveradmin":
"webmaster@subdomain.example.com",
    "no_cache_update": "0"
}
],
"parked_domains": [
    "parkeddomain.com"
],
"sub_domains": [
{
    "phpopenbasedirprotect": "1",
    "ip": "192.168.0.128",
    "domain": "sub.example.com",
    "usecanonicalname": "Off",
    "group": "user",
    "hascgi": "1",
    "user": "user",
    "documentroot":
"/home/user/public_html/sub",
    "owner": "root",
    "userdirprotect": "",
    "ipv6": null,
    "serveralias":
"www.sub.example.com",
    "homedir": "/home/user",
    "servername": "sub.example.com",
    "type": "sub_domain",
    "serveradmin":
"webmaster@sub.example.com",
    "no_cache_update": "0"
}
],
"main_domain": {
    "phpopenbasedirprotect": "1",
    "options": "ExecCGI Includes",
    "ip": "192.168.0.128",
    "domain": "example.com",
    "hascgi": "1",
    "group": "user",
    "usecanonicalname": "Off",
    "scriptalias": [
{
    "url": "/cgi-bin/",
    "path":
"/home/user/public_html/cgi-bin"
}
],
{
    "url": "/cgi-bin/",

```

Related Documentation

- Use WHM API to Call cPanel API and UAPI — You can call cPanel API and UAPI functions through the WHM API.
 - Guide to the Manage2 API — The Manage2 API automates cPanel license management procedures.

- DAV:: is_horde_enabled
- ▼ DCV
 - DCV:: check_domains_via_dns
 - DCV:: check_domains_via_http
 - DCV:: ensure_domains_can_pass_dcv
- ▼ DomainInfo
 - DomainInfo:: domains_data
 - DomainInfo:: list_domains
 - DomainInfo:: main_domain_builtin_subdomain_aliases
 - DomainInfo:: single_domain_data
- ▼ DNS
 - DNS:: ensure_domains_reside_only_locally
 - DNS:: has_local_authority
- ▼ DNSSEC
 - DNSSEC:: disable_dnssec
 - DNSSEC:: enable_dnssec
 - DNSSEC:: fetch_dns_records
 - DNSSEC:: set_nsec3
 - DNSSEC:: unset_nsec3
- ▼ Email
 - Email:: account_name
 - Email:: add_auto_responder
 - Email:: add_domain_forwarder
 - Email:: add_forwarder
 - Email:: add_list
 - Email:: add_mailman_delegates
 - Email:: add_mx
 - Email:: add_pop
 - Email:: add_spam_filter

```

      "path":
        "/home/user/public_html/cgi-bin/"
      },
      "user": "user",
      "ifmodulemodsuphpc": {
        "group": "user"
      },
      "owner": "root",
      "documentroot":
        "/home/user/public_html",
      "userdirprotect": "",
      "serveralias": "parkeddomain.com
        www.parkeddomain.com www.example.com",
      "port": "80",
      "homedir": "/home/user",
      "customlog": [
        {
          "target":
            "/usr/local/apache/domlogs/example.com",
          "format": "combined"
        },
        {
          "target":
            "/usr/local/apache/domlogs/example.com-
            bytes_log",
          "format": "\\n%{s}t %I
            .\\n%{s}t %O .\\"
        }
      ],
      "servername": "example.com",
      "type": "main_domain",
      "serveradmin":
        "webmaster@example.com"

```

- [Guide to UAPI](#) — UAPI accesses the cPanel interface's features.
- [Guide to WHM API 0](#) — WHM API 0 accesses the WHM interface's features.
- [Guide to cPanel API 2](#) — cPanel API 2 accesses cPanel account information and modifies settings.

Email:: browse_mailbox

Email:: change_mx

Email:: check_fastmail

Email:: check_pipe_forwarder

Email:: delete_auto_responder

Email:: delete_do_main_forwarder

Email:: delete_filter

Email:: delete_forwarder

Email:: delete_held_messages

Email:: delete_list

Email:: delete_mx

Email:: delete_pop

Email:: disable_filter

Email:: disable_mailbox_autocreate

Email:: disable_spam_assassin

Email:: disable_spam_autodelete

Email:: disable_spam_box

Email:: dispatch_client_settings

Email:: edit_pop_quota

Email:: enable_filter

Email:: enable_mailbox_autocreate

Email:: enable_spam_assassin

Email:: enable_spam_box

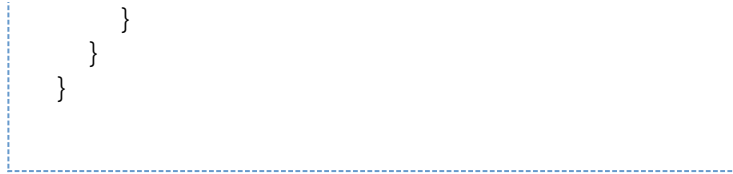
Email:: fetch_charmaps

Email:: fts_rescan_mailbox

Email:: generate_mailman_opt

Email:: get_auto_responder

Email:: get_chase



Metadata

The following table lists metadata return parameters that always appear in UAPI output.

Warnings:

- Individual function documents do **not** include these descriptions of metadata information, unless the function's returns are atypical of the normal UAPI structure.
- UAPI 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 UAPI functions via the command line, validate the command line return for a nonzero exit code instead.

Metadata parameter	Type	Description
messages	<i>string</i>	One or more messages about the function's results. If no messages exist, this parameter returns a null value.
errors	<i>string</i>	One or more error messages, if errors occurred. If no errors occurred, this parameter returns a null value.
warnings	<i>string</i>	One or more warning messages, if warnings occurred. If no warnings occurred, this parameter returns a null value.

ts

Email: [get_client_settings](#)

Email: [get_default_email_quota](#)

Email: [get_default_email_quota_mib](#)

Email: [get_disk_usage](#)

Email: [get_filter](#)

Email: [get_held_message_count](#)

Email: [get_mailbox_autocreate](#)

Email: [get_mailman_delegates](#)

Email: [get_main_account_disk_usage](#)

Email: [get_main_account_disk_usage_bytes](#)

Email: [get_max_email_quota](#)

Email: [get_max_email_quota_mib](#)

Email: [get_pop_quota](#)

Email: [get_spam_settings](#)

Email: [get_webmail_settings](#)

Email: [has_delegated_mailman_lists](#)

Email: [has_plaintext_authentication](#)

Email: [hold_outgoing](#)

Email: [is_integer](#)

Email: [list_autoresponders](#)

Email: [list_default_address](#)

Email: [list_domain_forwarders](#)

Email: [list_filters](#)

Email: [list_filters_backups](#)

Email: [list_forwarders](#)

Email: [list_forward](#)

status	<i>Boolean</i>	Whether the function itself succeeded. <div style="border: 1px solid orange; padding: 5px;">Note: A value of 1 only indicates that the system successfully ran the function. It does not indicate that the function completed its action or that it did not encounter errors.</div>
metadata	<i>hash</i>	A hash of additional metadata. Often, this hash includes the transformed parameter.
data	<i>hash, array, or scalar</i>	The function's return data. In most cases, the function's output parameters return as a hash or an array of hashes.

ers_backups

Email:: list_lists

Email:: list_mail_d
omains

Email:: list_mx

Email:: list_pops

Email:: list_pops_
with_disk

Email:: list_system
_filter_info

Email:: passwd_list

Email:: passwd_po
p

Email:: release_ou
tgoing

Email:: remove_m
ailman_delegates

Email:: reorder_filt
ers

Email:: set_always
_accept

Email:: set_default
_address

Email:: set_list_pri
vacy_options

Email:: stats_db_st
atus

Email:: store_filter

Email:: suspend_in
coming

Email:: suspend_lo
gin

Email:: suspend_o
utgoing

Email:: trace_filter

Email:: unsuspend
_incoming

Email:: unsuspend
_login

Email:: unsuspend
_outgoing

Email:: verify_pass
word

▼ EmailAuth

EmailAuth:: disabl
e_dkim

EmailAuth:: enable
_dkim

EmailAuth:: ensure
_dkim_keys_exist

EmailAuth:: fetch_
dkim_private_keys

EmailAuth:: install
_dkim_private_key
s

EmailAuth:: install
_spf_records

EmailAuth:: validat
e_current_dkims

EmailAuth:: validat
e_current_ptrs

EmailAuth:: validat
e_current_spfs

ExternalAuthenticat
ion

ExternalAuthentic
ation:: add_auth_li
nk

ExternalAuthentic
ation:: configured_
modules

ExternalAuthentic
ation:: get_auth_lin
ks

ExternalAuthentic
ation:: has_external
_auth_modules_co
nfigured

ExternalAuthentic
ation:: remove_auth
n_link

Features

Features:: get_feat
ure_metadata

Features:: has_fea
ture

Features:: list_feat
ures

Fileman

Fileman:: autocom
pletedir

Fileman:: empty_tr
ash

Fileman:: get_file_
content

Fileman:: get_file_i
nformation

Fileman:: list_files

Fileman:: save_file
_content

Fileman:: transcod
e

Fileman:: upload_fi
les

▼ Ftp

Ftp:: add_ftp

Ftp:: allows_anonymous_ftp

Ftp:: allows_anonymous_ftp_incoming

Ftp:: delete_ftp

Ftp:: ftp_exists

Ftp:: get_ftp_daemon_info

Ftp:: get_port

Ftp:: get_quota

Ftp:: get_welcome_message

Ftp:: kill_session

Ftp:: list_ftp

Ftp:: list_ftp_with_disk

Ftp:: list_sessions

Ftp:: passwd

Ftp:: server_name

Ftp:: set_anonymous_ftp

Ftp:: set_anonymous_ftp_incoming

Ftp:: set_homedir

Ftp:: set_quota

Ftp:: set_welcome_message

▼ Integration

Integration:: fetch_url

▼ KnownHosts

KnownHosts:: create

KnownHosts:: delete

KnownHosts:: update

KnownHosts:: verify

▼ LangPHP

LangPHP:: php_get_domain_handler

LangPHP:: php_get_impacted_domains

LangPHP:: php_get_installed_version

s

LangPHP:: php_get_system_default_version

LangPHP:: php_get_vhost_versions

LangPHP:: php_ini_get_user_basic_directives

LangPHP:: php_ini_get_user_content

LangPHP:: php_ini_get_user_paths

LangPHP:: php_ini_set_user_basic_directives

LangPHP:: php_ini_set_user_content

LangPHP:: php_set_vhost_versions

▼ LastLogin

LastLogin:: get_last_or_current_logged_in_ip

▼ Locale

Locale:: get_attributes

▼ Mailboxes

Mailboxes:: expunge_mailbox_messages

Mailboxes:: expunge_messages_for_mailbox_guid

Mailboxes:: get_mailbox_status

Mailboxes:: has_utf8_mailbox_names

Mailboxes:: set_utf8_mailbox_names

▼ Market

Market:: cancel_pending_ssl_certificate

Market:: create_shopping_cart

Market:: get_all_products

Market:: get_certificate_status_details

Market:: get_login_url

Market:: get_pending_ssl_certificates

Market:: get_provider_specific_dcv_constraints

Market:: get_providers_list

Market:: get_ssl_certificate_if_available

Market:: process_ssl_pending_queue

Market:: request_ssl_certificates

Market:: set_status_of_pending_queue_items

Market:: set_url_after_checkout

Market:: validate_login_token

▼ Mime

Mime:: add_handler

Mime:: add_hotlink

Mime:: add_mime

Mime:: add_redirect

Mime:: delete_handler

Mime:: delete_hotlink

Mime:: delete_mime

Mime:: delete_redirect

Mime:: list_handlers

Mime:: list_hotlinks

Mime:: list_mime

Mime:: list_redirects

Mime:: redirect_info

▼ ModSecurity

ModSecurity:: disable_all_domains

ModSecurity:: disable_domains

ModSecurity:: enable_all_domains

ModSecurity:: enable_domains

ModSecurity:: has
_modsecurity_inst
alled

ModSecurity:: list_
domains

▼ Mysql

Mysql:: add_host

Mysql:: add_host_
note

Mysql :: check_dat
abase

Mysql:: create_dat
abase

Mysql:: create_use
r

Mysql:: delete_dat
abase

Mysql:: delete_hos
t

Mysql:: delete_use
r

Mysql:: get_host_n
otes

Mysql:: get_privile
ges_on_database

Mysql:: get_restrict
ions

Mysql:: get_server
_information

Mysql:: locate_ser
ver

Mysql:: rename_d
atabase

Mysql:: rename_us
er

Mysql:: repair_dat
abase

Mysql:: revoke_ac
cess_to_database

Mysql:: set_passw
ord

Mysql:: set_privile
ges_on_database

▼ Notifications

Notifications:: get_
notifications_count

▼ NVData

NVData:: get

NVData:: set

▼ Parser

Parser:: firstfile_rel
ative_uri

- ▼ PassengerApps
 - PassengerApps:: disable_application
 - PassengerApps:: edit_application
 - PassengerApps:: enable_application
 - PassengerApps:: ensure_deps
 - PassengerApps:: list_applications
 - PassengerApps:: register_application
 - PassengerApps:: unregister_application
- ▼ PasswdStrength
 - PasswdStrength:: get_required_strength
- ▼ Personalization
 - Personalization::set
 - Personalization::get
- ▼ Postgresql
 - Postgresql:: create_database
 - Postgresql:: create_user
 - Postgresql:: delete_database
 - Postgresql:: get_restrictions
 - Postgresql:: grant_all_privileges
 - Postgresql:: rename_database
 - Postgresql:: rename_user
 - Postgresql:: rename_user_no_password
 - Postgresql:: revoke_all_privileges
 - Postgresql:: set_password
- ▼ Pushbullet
 - Pushbullet:: send_test_message
- ▼ Quota
 - Quota:: get_quota_info

- ▼ Resellers
 - Resellers:: list_accounts
- ▼ ResourceUsage
 - ResourceUsage:: get_usages
- ▼ Restore
 - Restore:: directory_listing
 - Restore:: get_users
 - Restore:: query_file_info
 - Restore:: restore_file
- ▼ Session
 - Session:: create_temp_user
- ▼ SiteTemplates
 - SiteTemplates:: list_site_templates
 - SiteTemplates:: list_user_settings
 - SiteTemplates:: publish
- ▼ SpamAssassin
 - SpamAssassin :: clear_spam_box
 - SpamAssassin:: get_symbolic_test_names
 - SpamAssassin:: get_user_preferences
 - SpamAssassin:: update_user_preference
- ▼ SSH
 - SSH:: get_port
- ▼ SSL
 - SSL:: add_autossl_excluded_domains
 - SSL:: can_ssl_redirect
 - SSL:: check_shared_cert
 - SSL:: delete_cert
 - SSL:: delete_csr
 - SSL:: delete_key
 - SSL:: delete_ssl
 - SSL :: disable_mail_sni

SSL:: enable_mail
_sni

SSL:: fetch_best_f
or_domain

SSL:: fetch_cert_in
fo

SSL:: fetch_certific
ates_for_fqdns

SSL:: fetch_key_a
nd_cabundle_for_
certificate

SSL:: find_certifica
tes_for_key

SSL:: find_csrs_for
_key

SSL:: generate_ce
rt

SSL:: generate_cs
r

SSL:: generate_ke
y

SSL:: get_autossl_
excluded_domains

SSL:: get_autossl_
pending_queue

SSL:: get_autossl_
problems

SSL:: get_cabundl
e

SSL:: get_cn_nam
e

SSL:: install_ssl

SSL:: installed_ho
st

SSL:: installed_ho
sts

SSL:: is_autossl_c
heck_in_progress

SSL:: is_mail_sni_
supported

SSL:: is_sni_supp
orted

SSL:: list_certs

SSL:: list_csrs

SSL:: list_keys

SSL:: list_ssl_item
s

SSL:: mail_sni_sta
tus

SSL:: rebuild_mail
_sni_config

SSL:: rebuildssldb

SSL:: remove_aut
ossl_excluded_do
mains

SSL:: set_autossl_
excluded_domains

SSL:: set_cert_frie
ndly_name

SSL:: set_csr_frien
dly_name

SSL:: set_key_frie
ndly_name

SSL:: set_primary
_ssl

SSL:: set_ssl_shar
e

SSL:: show_cert

SSL:: show_csr

SSL:: show_key

SSL:: start_autossl_
_check

SSL:: toggle_ssl_r
edirects_for_doma
ins

SSL:: upload_cert

SSL:: upload_key

▼ StatsBar

StatsBar:: get_stat
s

▼ Styles

Styles:: current

Styles:: list

Styles:: set_default

Styles:: update

▼ SubDomain

SubDomain:: adds
ubdomain

▼ Themes

Themes:: get_the
me_base

Themes:: list

Themes:: update

▼ Tokens

Tokens:: create_fu
ll_access

Tokens:: list

Tokens:: rename

Tokens:: revoke

▼ TwoFactorAuth

TwoFactorAuth:: generate_user_configuration

TwoFactorAuth:: get_user_configuration

TwoFactorAuth:: remove_user_configuration

TwoFactorAuth:: set_user_configuration

▼ UserManager

UserManager:: check_account_conflicts

UserManager:: create_user

UserManager:: delete_user

UserManager:: dismiss_user

UserManager:: edit_user

UserManager:: list_users

UserManager:: lookup_service_account

UserManager:: lookup_user

UserManager:: merge_service_account

UserManager:: unlink_service_account

▼ UserTasks

UserTasks:: delete

UserTasks:: retrieve

▼ VersionControl

VersionControl:: create

VersionControl:: delete

VersionControl:: retrieve

VersionControl:: update

▼ VersionControlDeployment

VersionControlDeployment:: create

VersionControlDeployment:: delete

VersionControlDeployment:: retrieve

▼ WebDisk

WebDisk:: delete_user

WebDisk:: set_homedir

WebDisk:: set_password

WebDisk:: set_permissions

▼ WebmailApps

WebmailApps:: list_webmailapps

▼ WebVhosts

WebVhost:: list_domains

WebVhost:: list_ssl_capable_domains

▼ WordPressBackup

WordPressBackup:: any_running

WordPressBackup:: cancel

WordPressBackup:: cleanup

WordPressBackup:: get_available_backups

WordPressBackup:: is_running

WordPressBackup:: start

▼ WordPressInstance

Manager

WordPressInstanceManager:: cancel_scan

WordPressInstanceManager:: cleanup_scan

WordPressInstanceManager:: change_admin_password

WordPressInstanceManager:: configure_autoupdate

WordPressInstanceManager:: get_api_version

WordPressInstanceManager:: get_in

stance_by_id

WordPressInstanceManager::get_instances

WordPressInstanceManager::get_latest_wordpress_version_from_wordpress_org

WordPressInstanceManager::get_scan_results

WordPressInstanceManager::is_installable_addon_available

WordPressInstanceManager::start_scan

▼ WordPressRestore

WordPressRestore::any_running

WordPressRestore::cleanup

WordPressRestore::start