

WHM API 1 Functions - install_spf_records

Guide to WHM API 1

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Description

This function installs a Sender Policy Framework (SPF) record for a domain on the DNS server.



Important:

In cPanel & WHM version 78 and later, when you disable the MailSend role, the system **disables** this function. For more information, read our [How to Use Server Profiles](#) documentation.

Examples

Function information

API Version: WHM API 1
Available in: WHM 78+
Methods: GET, POST
Required Parameters: domain, record
Return Format: JSON

About WHM API 1

WHM API 1 performs functions and accesses data in WHM.



Notes:

[applist](#)
[createacct](#)
[domainuserdata](#)
[editquota](#)
[forcepasswordchange](#)
[get_current_users_count](#)
[get_disk_usage](#)
[get_domain_info](#)
[getdomainowner](#)
[get_maximum_users](#)
[getminimumpasswordstrengths](#)
[has_digest_auth](#)
[has_mycnf_for_cpuser](#)
[limitbw](#)
[list_users](#)
[listaccts](#)
[listlockedaccounts](#)
[listsuspended](#)
[modifyacct](#)
[myprivs](#)
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[set_digest_auth](#)
[showbw](#)
[suspendacct](#)
[unsuspendacct](#)
[untrack_acct_id](#)
[verify_new_username](#)
[convert_addon_fetch_conversion_details](#)

```
https://hostname.example.com:2087/cpsess#####/json-api/install_spf_records?api.version=1&domain=example.com&domain=anotherexample.com&record="v%3dspf1%20ip4:10.0.0.1%20%2Ba%20%2Bmx%20%2Bip4:10.0.0.2%20%2Bip4:10.0.0.3%20-all"&record="v%3dspf1%20ip4:10.0.0.1%20%2Ba%20%2Bmx%20%2Bip4:10.0.0.2%20%2Bip4:10.0.0.3%20-all"
```

```
whmapil install_spf_records domain=example.com domain=anotherexample.com record="v=spf1 ip4:10.0.0.1 %2Ba %2Bmx %2Bip4:10.0.0.2 %2Bip4:10.0.0.3 -all" record="v=spf1 ip4:10.0.0.1 %2Ba %2Bmx %2Bip4:10.0.0.2 %2Bip4:10.0.0.3 -all"
```



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
```

```
{
  "data": {
    "payload": [
      {
        "domain": "example.com",
        "msg": "[ADD:TXT@example.com.:v=spf1 ip4:10.0.0.1 %2Ba %2Bmx %2Bip4:10.0.0.2 %2Bip4:10.0.0.3 -all]",
        "status": 1
      },
      {
        "domain": "anotherexample.com",
        "msg": "[no changes needed]",
        "status": "1"
      }
    ],
    "metadata": {
      "command": "install_spf_record",
      "reason": "OK",
      "status": 1,
      "version": 1
    }
  }
}
```



Note:

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

• Some functions and parameters may require that you authenticate as the user.

[convert_addon_fetch_domain_details](#)

[convert_addon_get_conversion_status](#)

[convert_addon_initiate_conversion](#)

[convert_addon_list_addon_domains](#)

[convert_addon_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_configurations](#)

[get_users_authn_linked_accounts](#)

[link_user_authn_provider](#)

[set_provider_client_configurations](#)

[set_provider_display_configurations](#)

[twofactorauth_disable_policy](#)

Parameters

Parameter	Type	Description	Possible values	Example
domain	string	Required The domain for which to install an SPF record on the DNS server. <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;">Note: To install multiple SPF records, duplicate the parameter name. For example, use the domain=example.com, domain=example2.com, and domain=example3.com parameters.</div>	A valid domain.	example.com
record	string	Required An SPF record. <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;">Note: You must provide this parameter for every domain parameter.</div>	A valid SPF record.	v=spf1 ip4:10.0.0.1 %2Ba %2Bmx %2Bip4:10.0.0.2 %2Bip4:10.0.0.3 -all

Returns

Return	Type	Description	Possible values	Example
payload	array of hashes	An array that contains information about the domain's SPF record installation to the DNS server.	Each hash contains the domain, msg, and status returns.	
domain	string	The SPF record's associated domain on the DNS server. This function returns this value in the payload array.	A valid domain.	example.com
msg	string	The SPF record's installation status to the DNS server. This function returns this value in the payload array.	A valid string.	{ADD:TXT@example.com.:v=spf1 ip4:10.0.0.1 %2Ba %2Bmx %2Bip4:10.0.0.2 %2Bip4:10.0.0.3 -all}
status	Boolean	Whether the system installed the SPF record to the DNS server. This function returns this value in the payload array.	<ul style="list-style-type: none">1 — The system installed the SPF record on the DNS server.0 — The system cannot install the SPF record on the DNS server.	1

• You must use the appropriate WHM ports (2086 or 2087) to call WHM API functions.

Find a function

Related functions

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

backup_config_get

backup_config_set

backup_date_list

backup_destination_add

backup_destination_delete

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

- [WHM API 1 Sections - Addon Domains](#) — Addon Domain functions allow you to manage addon domains or convert them to full cPanel accounts.
- [WHM API 1 Functions - list_mysql_databases_and_users](#) — This function retrieves the MySQL® database and user data for the specified account.
- [WHM API 1 Functions - convert_addon_fetch_domain_details](#) — This function retrieves domain data for an addon domain.
- [WHM API 1 Functions - convert_addon_fetch_conversion_details](#) — This function returns the details of the convert addon domain to account process.
- [WHM API 1 Functions - convert_addon_get_conversion_status](#) — This function returns the status of the convert addon domain to account process for specified conversion jobs.

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_users_all_st
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_list

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_legacy_conf
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list_cparchive
_files

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und_pkgacct

toggle_user_
backup_state

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_analytics

cphulk_status

create_cphul
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delete_cphul
k_record

disable_cphu
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enable_cphulk

flush_cphulk
_login_history

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_with_known
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_update_pro
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ea4_tomcat8
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enable_mail_
sni

ensure_dkim_
_keys_exist

exim_configuration_check

expunge_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_current_installed_exim_config

validate_curr
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modsec_discard_all_rule_changes

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modsec_get_config_text

modsec_get_configs

modsec_get_configs_with_changes_pending

modsec_get_log

modsec_get_rules

modsec_get_settings

modsec_get_vendors

modsec_is_installed

modsec_make_config_active

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_undisable_rule

modsec_update_vendor

_getpkgextensionform

add_override_features_for_user

addpkg

addpkgext

changepackage

create_featurelist

delete_featurelist

delpkgext

editpkg

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get_available_featurelists

get_feature_metadata

get_feature_names

get_featurelist_data

get_featurelists

get_users_features_settings

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getpkginfo

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read_featurelist

remove_override_features_for_user

update_feature_relist

verify_user_has_feature

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get_fpm_count_and_utilization

is_conversion_in_progress

php_get_defaults_to_fpm

php_get_handlers

php_get_affected_domains

php_get_installed_versions

php_get_old_fpm_flag

php_get_system_default_version

php_get_hosts_by_version

php_get_host_versions

php_ini_get_content

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php_set_defaults_to_fpm

php_set_handler

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php_set_session_save_path

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create_user_
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or_all_enable
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get_application_contact_event_importance

get_application_contact_importance

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get_password_strength

get_remote_access_hash

get_service_config

get_service_config_key

get_tcp4_sockets

get_tcp6_sockets

get_tweaksetting

get_udp4_sockets

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get_users_links

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rogress_exim
_config_edit

restartservice

restore_conf
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metadata

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provider

start_autossl
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generate_cp
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list_styles

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remove_logo

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save_style

set_default

ticket_create
_stub_ticket

ticket_get_su
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ticket_grant

ticket_list

ticket_remov
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version