

How to Use Server Profiles

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- Profiles

Overview

In cPanel & WHM version 76, we introduced the server profiles feature. These profiles allow server administrators to optimize servers to perform specific tasks or functions. Each profile enables and disables a set of roles, and each of these roles allow or disallow certain services related to the server's task. For example, a server that runs a *Mail Node* profile disables most services that do not support mail functions. These servers can host accounts that do not require applications such as web hosting or database access.

Important:

- When you upgrade or install cPanel & WHM version 76, the system sets your default server profile to the *Standard Node* profile.
- Server profiles allow cPanel & WHM servers to offload specific services to a different server. For example, a *Mail Node* server processes mail, while a separate *DNS Node* server manages the Domain Name System (DNS) zone files. Currently cPanel & WHM server profiles do not support server integration configurations.
- The `dynamicui.conf` files now include the `role` and `services` parameters to support server profiles in the UI. **Do not** modify the `role` or `service` parameter in the `dynamicui.conf` file. We **do not** support this behavior.

Note:

You can purchase a [cPanel Solo license](#) for a server that uses **any** server profile, but that server's cPanel access only allows for **one** user. For more information, read our [cPanel Solo License](#) documentation.

The Server Profiles interface

You can select a profile with WHM's [Server Profile](#) interface (*WHM >> Home >> Server Configuration >> Server Profile*).

Important:

- You **cannot** change the server's profile if at least **one** account exists on the server. You must remove **all** user accounts before you can select a server profile. You can back up all user accounts with the `/usr/local/cpanel/bin/backup` script, then use the `/usr/local/cpanel/scripts/restorepkg` script to transfer the accounts back on to the server.
- We **do not** recommend that you use a profile with an experimental label (**Experimental**) in a production environment. For more information about the development status for *Experimental* profiles, read our [Server Profiles Roadmap](#) documentation.

You can select from the following profiles and their respective roles:

	Enabled Roles	Disabled Roles	Optional Roles
Standard Node	All	None	None
Database Node	MySQL/MariaDB, Local Mail, Send Mail	Calendars and Contacts, DNS, File Storage, FTP, Receive Mail, Spam Filter, Web Disk, Webmail, Web Server	PostgreSQL
DNS Node	DNS, Local Mail, Send Mail	Calendars and Contacts, File Storage, FTP, PostgreSQL, Receive Mail, Spam Filter, Web Disk, Webmail, Web Server	MySQL/MariaDB
Mail Node	Calendars and Contacts, Local Mail, Receive Mail, Send Mail, Webmail	File Storage, FTP, MySQL/MariaDB, PostgreSQL, Web Disk, Web Server	DNS, Spam Filter

For more information about each profile, read the [Profiles](#) section of this documentation.

Roles

Important:

If a role **disables** a service, its related modules and functions are disabled.

Roles are a collection of one or more services that profiles use to provide specific server functionality. Profiles may consist of one or more of the following roles:

Role	Module Name	Description	Service
Calendars and Contacts	CalendarContact	Allows users to access CalDAV and CardDAV services and features.	cpdavd
DNS	DNS	Allows users to create and edit Domain Name System (DNS) zone files. <div style="border: 1px solid red; padding: 5px; margin-top: 10px;"><p>Important:</p><ul style="list-style-type: none">• We deprecated the MyDNS and NSD nameserver software in cPanel & WHM version 78 and plan to remove them a future release. We strongly recommend that you migrate to PowerDNS. For more information, read our cPanel Deprecation Plan.• The <i>DNS Node</i> role does not convert your server to a cPanel DNSONLY™ server. For more information, read our cPanel DNSONLY documentation.</div>	bind, named, nsd, pdns, powerdns
File Storage	FileStorage	Allows users to access cPanel's <i>File Manager</i> and <i>Git™ Version Control</i> features.	There are currently no services associated with this role.
FTP	FTP	Allows users to manage their account's files with an FTP client.	ftpd, pureftpd, proftpd
Local Mail	MailLocal	Allows the control of local mail delivery and related features.	exim, dovecot
Receive Mail	MailReceive	Allows users to receive mail from external sources.	cpanel_dovecot_solr, cpdavd, cpgreylistd, dovecot, imap, mailman, pop
Send Mail	MailSend	Allows users to send mail externally and controls the features associated with sending mail.	exim, exim-altport
MySQL/MariaDB	MySQL	Allows users to create and manage MySQL® or MariaDB databases.	mysql
PostgreSQL	Postgres	Allows users to create and manage PostgreSQL databases, if cPanel manages the server's PostgreSQL.	postgresql
Spam Filter	SpamFilter	Allows users to use Apache SpamAssassin™ to identify, sort, and delete unsolicited mail.	spamd
Webmail	Webmail	Allows users to access webmail services and features.	There are currently no services associated with this role.

Web Disk	WebDisk	Allows users to manage their account's files with a WebDAV client.	cpdavd
Web Server	WebServer	Allows users to create and manage websites for their domains. <div style="border: 1px solid red; padding: 5px;"> <p>Important:</p> <ul style="list-style-type: none"> • When this role is disabled, the <code>cpsrvd</code> daemon takes over service for the standard HTTP ports 80 and 443. This ensures that the cPanel & WHM features that depend on these ports continue to function, such as service subdomains, AutoSSL, Mailman, and BoxTrapper. • If you want to prevent the <code>cpsrvd</code> daemon from serving ports 80 and 443, enable the <i>Prevent cpsrvd from serving standard HTTP ports</i> setting in WHM's <i>Tweak Settings</i> interface (<i>WHM >> Home >> Server Configuration >> Tweak Settings</i>). </div>	httpd, apache_php_fpm

Profiles

You can select from one of the following profiles:

Standard Node Database NodeDNS NodeMail Node

Standard Node

In cPanel & WHM version 76, we introduced the *Standard Node* profile. This profile provides every service and access to all cPanel features. This is the default server profile.

Note:

When you upgrade to cPanel & WHM version 76, the system sets your default server profile to the *Standard Node* profile.

Roles

This profile provides every service and access to all cPanel features.

Disabled services

This profile does not disable any cPanel services.

Note:

You can manage your services with WHM's *Service Manager* interface (*WHM >> Home >> Service Configuration >> Service Manager*).

WHM features

This profile enables all WHM interface features. For more information, read our [WHM Features List](#) documentation.

cPanel features

This profile allows cPanel users with the *default* account package to access all cPanel features. For more information, read our [cPanel Features List](#) documentation.

Database Node

Warning:

This profile is *Experimental* and **not** recommended for production environments. For more information about the development status for *Experimental* profiles, read our [Server Profiles Roadmap](#) documentation.

In cPanel & WHM version 76, we introduced the *Database Node* profile. This profile provides only services and cPanel features that allow the system to serve databases.

Roles

This profile possesses the following role configuration:

Enabled Roles:

- MySQL/MariaDB
- Local Mail
- Send Mail

Disabled Roles

- Calendars and Contacts
- DNS
- File Storage
- FTP
- Receive Mail
- Spam Filter
- Web Disk
- Webmail
- Web Server

Optional Roles

- PostgreSQL

Note:

You must have PostgreSQL installed to enable the optional PostgreSQL role.

Disabled services

This profile's role configuration **disables** the following services:

- apache_php_fpm
- bind
- cpanel_dovecot_solr
- cpdavd
- cpgrelistd
- ftpd
- httpd

- imap
- mailman
- named
- nsd
- pdns
- pop
- powerdns
- proftpd
- pureftpd
- spamd

WHM features

When you enable this profile the system **disables** following features in the WHM interface:

Server Configuration

- Statistics Software Configuration

Security Center

- Apache mod_userdir Tweak
- ModSecurity™ Configuration
- ModSecurity™ Tools
- ModSecurity™ Vendors

Service Configuration

- Apache Configuration
- cPanel Web Disk Configuration
- FTP Server Configuration
- FTP Server Selection
- Mailserver Configuration
- Nameserver Selection

Clusters

- DNS Cluster

Server Status

- Apache Status

Account Information

- List Subdomains

Account Functions

- Raw Apache Log Download
- Raw FTP Log Download
- Web Template Editor

DNS Functions

- This menu is unavailable on a Database Node profile server.

Software

- [EasyApache4](#)
- [MultiPHP INI Editor](#)
- [MultiPHP Manager](#)

Email

- [Greylisting](#)
- [Mailbox Conversion](#)
- [Repair Mailbox Permissions](#)

cPanel

- [Install cPAddons Site Software](#)
- [Manage cPAddons Site Software](#)
- [Reset a Mailman Password](#)

Restart Services

- [DNS Server](#)
- [FTP Server \(ProFTPD/PureFTPd\)](#)
- [HTTP Server \(Apache\)](#)
- [IMAP Server](#)
- [Mailing List Manager \(Mailman\)](#)
- [PHP-FPM service for Apache](#)

cPanel features

Note:

The following list does **not** include the optional PostgreSQL role.

A cPanel user with the *default* package on a server with this profile has access to the following features:

Files

- [Disk Usage](#)
- [Backup](#)
- [Backup Wizard](#)
- [File and Directory Restoration](#)

Databases

- [phpMyAdmin](#)
- [MySQL Databases](#)
- [MySQL Database Wizard](#)
- [Remote MySQL](#)

Email

- [Email Routing](#)
- [Track Delivery](#)

Metrics

- Bandwidth

Security

- SSH Access
- SSL TLS
- SSL TLS Status

Advanced

- Terminal
- Cron Jobs
- Track DNS

Preferences

- Password & Security
- Change Language
- Change Style
- Contact Information
- User Manager

DNS Node

Warning:

- This profile is *Experimental* and **not** recommended for production environments.
- Selecting this profile **does not** convert your server to a cPanel DNSONLY™ server. For more information, read our [cPanel DNSONLY](#) documentation.

In cPanel & WHM version 76, we introduced the *DNS Node* profile. This profile provides only services and cPanel features that allow the system to serve Domain Name System (DNS) zones.

Roles

This profile possesses the following role configuration:

Enabled roles:

- DNS
- Local Mail
- Send Mail

Disabled roles:

- Calendars and Contacts
- File Storage
- FTP
- PostgreSQL
- Receive Mail
- Spam Filter
- Web Disk
- Webmail
- Web Server

Optional roles:

- MySQL/MariaDB

Disabled services

This profile's role configuration **disables** the following services:

- apache_php_fpm
- cpanel_dovecot_solr
- cpdavid
- cpgreylstd
- ftpd
- httpd
- imap
- mailman
- mysql
- pop
- postgresql
- proftpd
- pureftpd
- spamd

WHM features

When you enable this profile the system **disables** following features in the WHM interface:

Server Configuration

- Statistics Software Configuration

Security Center

- Apache mod_userdir Tweak
- ModSecurity™ Configuration
- ModSecurity™ Tools
- ModSecurity™ Vendors

Service Configuration

- Apache Configuration
- cPanel Web Disk Configuration
- Exim Configuration Manager
- FTP Server Configuration
- FTP Server Selection
- Mailserver Configuration

Server Status

- Apache Status

Account Information

- List Subdomains

Account Functions

- Raw Apache Log Download

- Raw FTP Log Download
- Web Template Editor

Transfers

- Convert Addon Domain to Account

SQL Services

- Additional MySQL Access Hosts
- Change MySQL User Password
- Database Map Tool
- Manage Database Users
- Manage Databases
- MySQL Root Password
- MySQL/MariaDB Upgrade
- phpMyAdmin
- Repair a MySQL Database
- Show MySQL Processes

Software

- EasyApache4
- MultiPHP INI Editor
- MultiPHP Manager

Email

- Greylisting
- Mailbox Conversion
- Repair Mailbox Permissions

cPanel

- Install cPAddons Site Software
- Manage cPAddons Site Software
- Reset a Mailman Password

Restart Services

- FTP Server (ProFTPD/PureFTPD)
- HTTP Server (Apache)
- IMAP Server
- Mailing List Manager (Mailman)
- PHP-FPM service for Apache
- SQL Server (MySQL) — This feature is unavailable if you **disab**
le the optional MySQLClient role.

cPanel features

A cPanel user with the *default* package on a server with this profile **and** the optional MySQLClient role has access to the following features:

Files

- Disk Usage
- Backup

- Backup Wizard
- File and Directory Restoration

Databases

- phpMyAdmin
- MySQL Databases
- MySQL Database Wizard
- Remote MySQL

Domains

- Domains
- Zone Editor

Email

- Email Routing
- Track Delivery
- Authentication

Metrics

- Bandwidth

Security

- SSH Access
- SSL/TLS
- SSL/TLS Status

Advanced

- Terminal
- Cron Jobs
- Track DNS

Preferences

- Password & Security
- Change Language
- Change Style
- Contact Information
- User Manager

Mail Node

Warning:

This profile is *Experimental* and **not** recommended for production environments.

In cPanel & WHM version 76, we introduced the *Mail Node* profile. This profile provides only services and cPanel features that allow the system to serve mail.

Note:

A server that uses the *Mail Node* profile **disables** web hosting features.

Certain cPanel & WHM features, such as AutoSSL and GNU Mailman, require HTTP service. On a *Mail Node* profile server, the system disables the web server, such as `httpd`, but enables `cpsrvd` to service TCP ports 80 and 443. This ensures that HTTP-dependent cPanel features continue to function.

Roles

This profile possesses the following role configuration:

Enabled roles:

- Calendars and Contacts
- Local Mail
- Receive Mail
- Send Mail
- Webmail

Disabled roles:

- File Storage
- FTP
- MySQL/MariaDB
- PostgreSQL
- Web Disk
- Web Server

Optional roles:

- DNS
- Spam Filter

Disabled services

This profile's role configuration **disables** the following services:

- `apache_php_fpm`
- `ftpd`
- `httpd`
- `mysql`
- `postgresql`
- `proftpd`
- `pureftpd`

WHM features

When you enable this profile the system **disables** the following features in the WHM interface:

Server Configuration

- [Statistics Software Configuration](#)

Security Center

- [Apache mod_userdir Tweak](#)
- [ModSecurity™ Configuration](#)
- [ModSecurity™ Tools](#)
- [ModSecurity™ Vendors](#)

Service Configuration

- [Apache Configuration](#)
- [cPanel Web Disk Configuration](#)
- [FTP Server Configuration](#)
- [FTP Server Selection](#)
- [Nameserver Selection](#) — This feature is unavailable when you **disable** the optional DNS role.

Clusters

- [DNS Cluster](#) — This feature is unavailable when you **disable** the optional DNS role.

Server Status

- [Apache Status](#)

Account Information

- [List Subdomains](#)

Account Functions

- [Raw Apache Log Download](#)
- [Raw FTP Log Download](#)
- [Web Template Editor](#)

DNS Functions

- This menu is unavailable when you **disable** the optional DNS role.

SQL Services

- [Additional MySQL Access Hosts](#)
- [Change MySQL User Password](#)
- [Database Map Tool](#)
- [Manage Database Users](#)
- [Manage Databases](#)
- [MySQL Root Password](#)
- [MySQL/MariaDB Upgrade](#)
- [phpMyAdmin](#)
- [Repair a MySQL Database](#)
- [Show MySQL Processes](#)

Software

- [EasyApache4](#)
- [MultiPHP INI Editor](#)
- [MultiPHP Manager](#)

cPanel

- [Install cPAddons Site Software](#)
- [Manage cPAddons Site Software](#)

Restart Services

- DNS Server — This feature is unavailable when you **disable** the optional DNS role.
- FTP Server (ProFTPD/PureFTPd)
- HTTP Server (Apache)
- PHP-FPM service for Apache
- SQL Server (MySQL)
- SQL Server (PgSQL)

cPanel features

A cPanel user with the *default* package on a server with this profile and all optional roles enabled has access to the following features:

Files

- Disk Usage
- Backup
- Backup Wizard
- File and Directory Restoration

Domains

- Domains
- Zone Editor

Email

- Email Accounts
- Forwarders
- Email Routing
- Autoresponders
- Default Address
- Mailing Lists
- Track Delivery
- Global Email Filters
- Email Filters
- Authentication
- Address Importer
- Spam Filters
- Encryption
- BoxTrapper
- Configure Greylisting
- Calendars & Contacts
- Email Disk Usage

Metrics

- Bandwidth

Security

- SSH Access
- SSL/TLS
- SSL/TLS Status

Advanced

- Terminal
- Cron Jobs
- Track DNS

Preferences

- Password & Security
- Change Language
- Change Style
- Contact Information
- User Manager