

# Description

## PUQ Web Hosting module **WHMCS**

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## What this module does

**PUQ Web Hosting** is a WHMCS module that fully automates the selling, provisioning, billing and day-to-day management of **web hosting and email hosting** accounts on **HestiaCP** servers (with PowerDNS as an additional DNS backend).

From a single WHMCS order the module can create everything a customer needs — a website, databases, FTP accounts, mailboxes, DNS records and an automatic Let's Encrypt certificate — and then expose a clean, self-service control panel inside the WHMCS client area. Your staff get a powerful admin panel embedded directly in the WHMCS service page, plus a central addon dashboard for your whole server fleet.

The module is built around three ideas that the rest of this documentation explains in detail:

- **Asynchronous, resumable deployment.** A WHMCS order is accepted in milliseconds; the real work runs in a cron-driven task queue as an idempotent pipeline. Slow panels, network blips and long operations never block the order — failed steps simply retry. See **Cron & Automation → Deploy process**.
- **Server segmentation by role.** Every HestiaCP node has *capabilities* — **Web, Mail, DNS** — and you organise nodes into **server groups**. You can keep websites on one set of servers, mailboxes on dedicated mail (MX) servers, and DNS on separate nameservers, balancing load by tier and scaling each tier independently. See **Deployment & Segmentation**.
- **Three deployment models, including Vanity.** Sell classic **Split** hosting (a separate Hestia user per role for maximum isolation), simpler **Unified** hosting (one user holds web + mail), or the standout **Vanity** model — turn one domain *you own* into thousands of sellable “*personal site + email*” slots (`|name.yourdomain.com|` + `|name@yourdomain.com|`). See **Vanity Mode**.

# Two parts: server module + addon module

The product ships as two WHMCS modules that work together:

Module	Role
<b>Server module</b> ( <code>  puqWebHosting  </code> )	The product engine: provisioning, the WHMCS client-area control panel, and the admin service panel embedded in each service page.
<b>Addon module</b> ( <code>  puq_web_hosting  </code> )	The control centre: a fleet dashboard, the <b>Infrastructure</b> pages (web / mail / DNS servers, server groups, DNS zones & templates), module <b>Settings</b> , the <b>task queue</b> and operation <b>logs</b> , and the cron orchestration that drives every deployment.

The addon module is **required** — it owns the database schema, the task queue and the cron runner that the server module relies on.

PUQ Web Hosting

The dashboard displays several key metrics and a table of server capacity. The metrics include:

- Services:** 6 (View)
- Servers:** 6 (Manage)
- Task Queue:** 148 (View)
- DNS Zones:** 3 (Manage)
- Server Groups:** Organize servers by location or tier (Manage)
- Settings:** Cron, retry policy, tables (Configure)

**Server capacity table:**

Type	Name	Capacity	Last sync
dns	isp-ns1-test.uuq.pl isp-ns1-test.uuq.pl	4 / —	2026-06-03 21:12:31
dns	isp-ns2-test.uuq.pl isp-ns2-test.uuq.pl	4 / —	2026-06-03 21:12:39
mail	isp-mx01-test.uuq.pl isp-mx01-test.uuq.pl	4 / —	2026-06-03 21:12:13
mail	isp-mx02-test.uuq.pl isp-mx02-test.uuq.pl	2 / —	2026-06-03 21:12:23
web	isp-web01-test.uuq.pl isp-web01-test.uuq.pl	3 / —	2026-06-03 21:11:46
web	isp-web02-test.uuq.pl isp-web02-test.uuq.pl	6 / —	2026-06-03 21:12:00

**Recent terminal errors:**

Service	Action	Error
No terminal errors.		

**Recent services:**

ID	Domain	WHMCS	Deploy	Created
27	ddd.benchwords.com	ACTIVE	ACTIVE	2026-06-03 00:39:19

## At a glance

- HestiaCP automation over SSH (no panel HTTP API required), plus a PowerDNS DNS driver for mixed clusters.
- Per-service **websites, databases, FTP, cron jobs, mailboxes (with aliases / forwards / auto-reply), DNS records** — all self-service in the client area, all permission-gated per product.
- **Automatic Let's Encrypt** issuance & renewal for web and mail, plus customer **custom-certificate** upload.
- Built-in **file managers** (FileGator + net2ftp) and **phpMyAdmin / webmail** single-sign-on links.
- **Backups** (create / list / restore / delete) with per-role quotas, **per-domain usage metering**, and WHMCS email events for every lifecycle action.
- Group-managed `hestia.conf` with drift detection, rebrandable **standard files** (error pages, suspended page, robots.txt), and **DNS zone templates** with a full modern mail record set (SPF, DKIM, DMARC, MTA-STS, TLS-RPT, autodiscover, CAA).
- The unique **Vanity** model and a standalone **“claim your name” shop widget** you can drop on any marketing domain.

# System Requirements

Requirement	Supported
<b>WHMCS</b>	8.x or 9.x
<b>PHP</b>	7.4, 8.1 or 8.2 ( <i>use the module build that matches your WHMCS host's PHP</i> )
<b>ionCube Loader</b>	enabled, matching the host PHP version
<b>HestiaCP</b>	reachable over SSH (panel HTTP API not required)
<b>PowerDNS</b>	optional — additional DNS backend

The module ships as **per-PHP-version builds (7.4 / 8.1 / 8.2)**. **WHMCS 8** runs on PHP 7.4, 8.1 or 8.2; **WHMCS 9** runs on PHP 8.2; and on any host with **PHP 8.3 or newer you use the 8.2 build**. Full guidance is in **Installation & Configuration → Requirements & Installation**.

“ The pages that follow walk through installation, building your server infrastructure, creating products, and the full admin and client experience — with a dedicated deep-dive on **server segmentation** and on **Vanity mode**.

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