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:

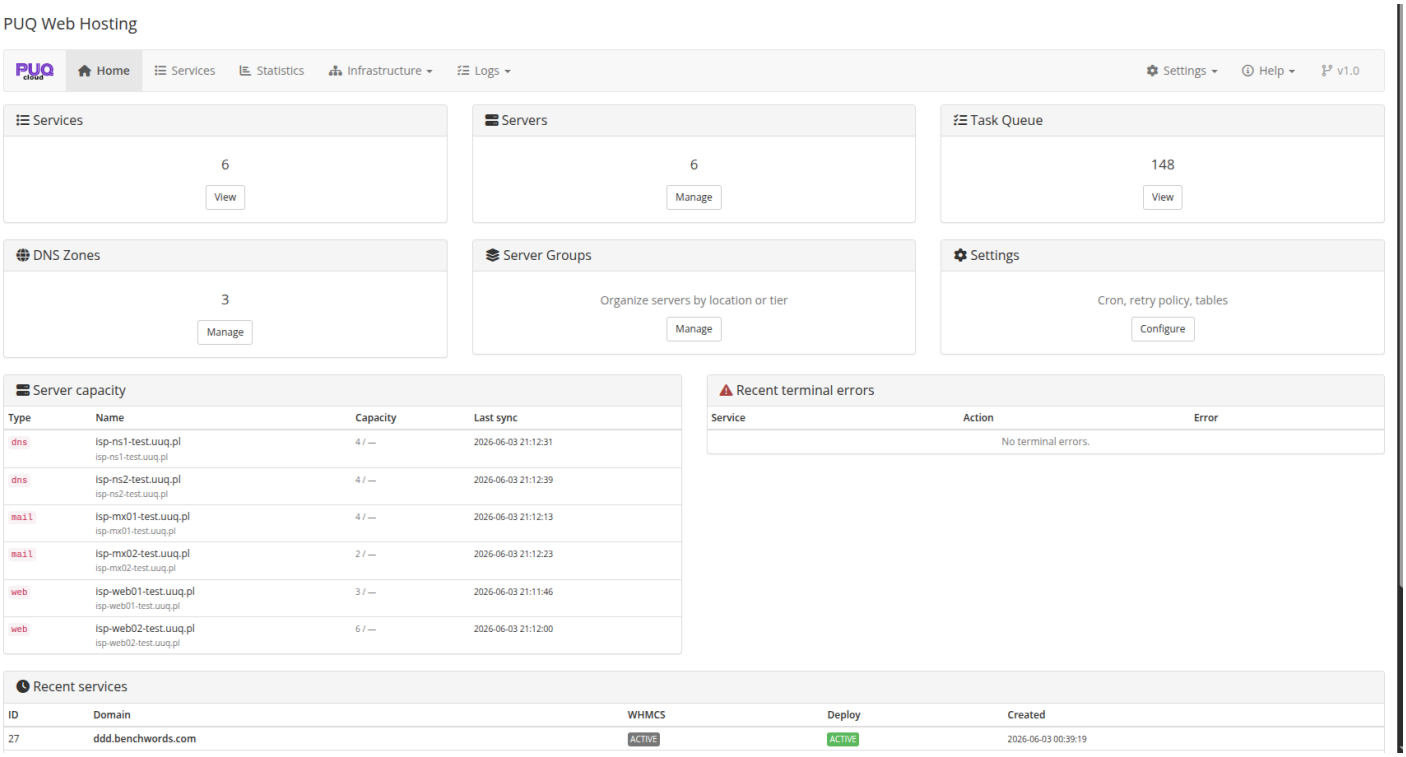
- **Asynchronous, resumable deployment.** A WHMCS order is accepted in milliseconds; the real work runs in a cron-driven task queue as an idempotent pipeline. Slow panels, network blips and long operations never block the order — failed steps simply retry. See **Cron & Automation → Deploy process**.
- **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
Server module (`puqWebHosting`)	The product engine: provisioning, the WHMCS client-area control panel, and the admin service panel embedded in each service page.
Addon module (`puq_web_hosting`)	The control centre: a fleet dashboard, the **Infrastructure** pages (web / mail / DNS servers, server groups, DNS zones & templates), module **Settings**, the **task queue** and operation **logs**, 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.



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
WHMCS	8.x or 9.x
PHP	7.4, 8.1 or 8.2 *(use the module build that matches your WHMCS host's PHP)*
ionCube Loader	enabled, matching the host PHP version
HestiaCP	reachable over SSH (panel HTTP API not required)
PowerDNS	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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