

Each zone line shows: internal ID, the zone name, the provider type badge, and per-row actions (**Test** connection, **Edit**, **Delete**).

You can add any number of zones. When a VM is deployed, the module matches the VM's FQDN and every assigned IP against all configured zones and writes to **every** matching zone.

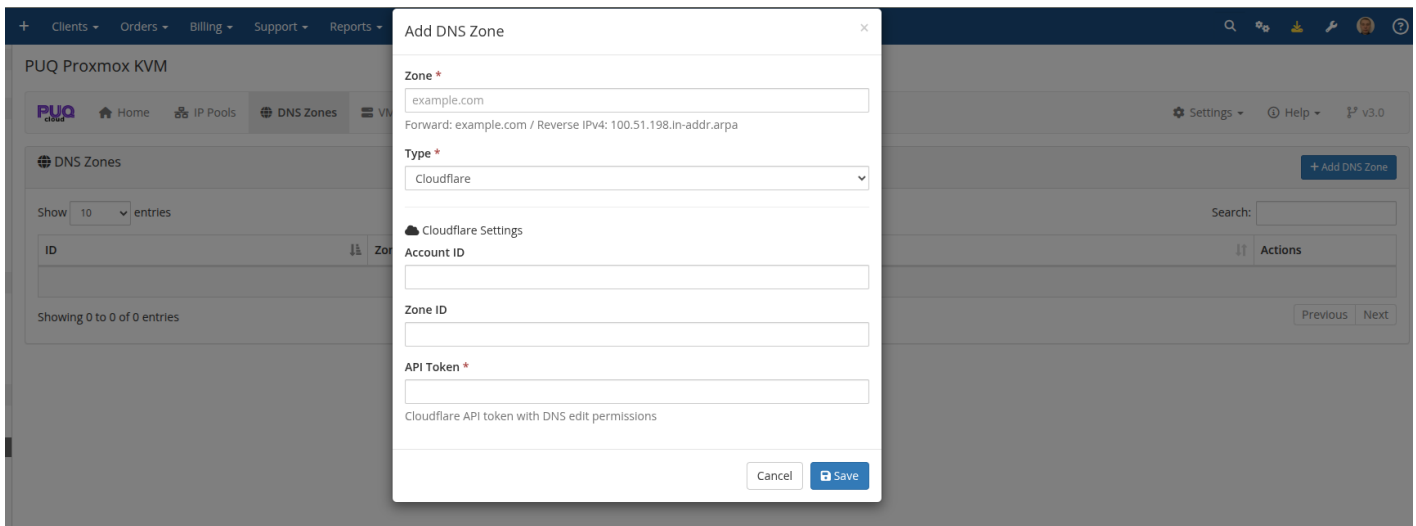
Supported providers

The module supports three DNS providers. You can mix them freely — forward zones on Cloudflare, reverse zones on PowerDNS, legacy zones on HestiaCP, all at the same time.

Provider	Forward (A/AAAA)	Reverse (PTR)	API style
Cloudflare	yes	yes	REST v4, bearer token
HestiaCP	yes	yes	custom CLI-over-HTTP, admin user + password
PowerDNS	yes	yes	Authoritative Server REST API, <code>X-API-Key</code>

Adding a DNS zone

Click **+ Add DNS Zone**. Choose the provider in the Type dropdown; the form fields change to match the provider.



Cloudflare

Field	Description
Zone	The zone name as it appears in Cloudflare (e.g., <code>example.com</code> for forward, <code>130.168.192.in-addr.arpa</code> for reverse).
Type	<code>Cloudflare</code>
Account ID	Cloudflare Account ID from the Cloudflare dashboard.
Zone ID	Cloudflare Zone ID from the zone's Overview page.
API Token	Cloudflare API token scoped to DNS edit on this zone.

HestiaCP

Field	Description
Zone	Domain name as configured on the HestiaCP server.
Type	<code>HestiaCP</code>
Server URL	HestiaCP URL, e.g., <code>https://hestia.example.com:8083/</code> . The trailing slash is added automatically if omitted.
Admin User	HestiaCP admin username.
Admin Password	HestiaCP admin password.
User	HestiaCP user that owns the DNS zone.

PowerDNS

Field	Description
Zone	Zone name as configured in PowerDNS (<code>example.com</code> for forward, <code>8.b.d.0.1.0.0.2.ip6.arpa</code> for IPv6 reverse). Trailing dots are normalized automatically.
Type	<code>PowerDNS</code>
Server URL	PowerDNS REST API base URL, e.g., <code>https://pdns.example.com:8081</code> .
API Key	Value of the <code>X-API-Key</code> header configured in <code>pdns.conf</code> .

Make sure the PowerDNS API is enabled in your `pdns.conf`:

```
api=yes
api-key=<your-key-here>
webserver=yes
webserver-address=0.0.0.0
```


Event	Forward records	Reverse records
Set DNS records admin button	Delete + recreate — forces a full resync	Delete + recreate

The main domain used for forward records comes from product configuration: **Admin → Products → [your product] → Module Settings → Integrations → Main domain**. For example if the main domain is `puqcloud.com` and the VM's internal name is `5551-1776530141`, the FQDN registered in DNS is `5551-1776530141.puqcloud.com`.

Zone matching

For a given DNS operation the module walks every configured zone and checks whether the record name would fit that zone:

- A forward `vm-123.puqcloud.com` matches any zone whose name is a suffix: `puqcloud.com`, for example. It does not match `puq.com` or `example.com`.
- A reverse PTR `10.1.168.192.in-addr.arpa` matches `1.168.192.in-addr.arpa`, `168.192.in-addr.arpa`, or `192.in-addr.arpa` — any level of reverse delegation.
- An IPv6 PTR matches any `*.ip6.arpa` zone that is a proper suffix of the full 32-nibble reverse name.

Zones that don't match a given VM's records are simply skipped — there's no error.

Non-blocking errors

Every per-zone and per-record operation is wrapped in its own try/catch. If a zone's provider is down, credentials are wrong, or a specific record creation fails:

- The error is logged to **Utilities → Logs → Module Log** with full context.
- A live cron output shows `fwd ERR` / `rev ERR` for that specific operation.
- **Deploy / change package / terminate continues** — the next zone, the next record, and the next pipeline step all run.
- When errors occur, a summary entry is written to the WHMCS module log so admins can audit failures after the fact.

This is by design: a DNS outage must not block a client from getting their VM. You can always run **Set DNS records** later from the admin service page once the DNS provider is back online (see below).

Set DNS records admin button

On a service's admin page in WHMCS, the module exposes a **Set DNS records** button under Module Commands. It performs a full DNS resync for that specific VM: delete every existing forward and reverse record, then recreate them from the VM's current IPs and domain.

Starting with v3.2 this runs **asynchronously**. Clicking the button queues the job (sets `vm_status = 'set_dns_records'`) and returns immediately. The next cron tick picks up the VM and runs the full delete + create cycle with live output — useful for services with dozens of reverse records where the synchronous version used to time out.

The progress shows up in VM Management → Log modal and in the cron stdout just like during deploy.

Credentials never leave the server

In v3.2 the DNS Zones list API masks all secret fields (API token, admin password, API key) with a `KEEP` sentinel before sending data to the browser. The edit form shows `(unchanged – enter new to replace)` placeholders:

- If you **don't type anything** in a secret field on save, the stored value is kept.
- If you **type a new value**, it overwrites the stored value.

This means tokens cannot be stolen by inspecting the edit form's HTML or by a compromised admin browser. The only way to read a stored credential is direct database access.

Testing a zone

The **Test** button per row runs a live connectivity and authorization check against the provider. For Cloudflare and PowerDNS it fetches the zone metadata; for HestiaCP it issues a zone listing call.

A green toast means the provider is reachable with valid credentials and the zone name matches what's configured on the server. A red toast shows the exact error returned by the provider.

Legacy DNS endpoint (`dns.php`)

“ **Still supported.** The legacy read-only JSON endpoint introduced in v1.4 is kept for backwards compatibility with external DNS automations. It does not write to

any DNS server — it just returns the current forward/reverse mapping so you can feed it into your own DNS-sync script.

Send a `GET` request to:

```
https://<WHMCS-SERVER>/modules/servers/puqProxmoxKVM/lib/dns/dns.php
```

Example response:

```
[
  {
    "forward": "vlan-1-4779.vps.uuq.pl",
    "ip": "192.168.0.2",
    "reverse": "mail.uuq.pl"
  },
  {
    "forward": "vps-1-4780.vps.uuq.pl",
    "ip": "192.168.0.3",
    "reverse": "test.vps.uuq.pl"
  }
]
```

Access control

Restrict access with `.htaccess` next to the file:

```
order deny,allow
deny from all
allow from <allowed_IP_address>
```

“ For new integrations, use the native DNS providers (Cloudflare / HestiaCP / PowerDNS) instead of scraping this endpoint. The native integration handles forward + reverse, deletion on terminate, retry on transient errors, credential masking, and produces a live audit trail in the cron log and module log.

Related reading

- [IP Pools](#) — where the rDNS zone name is computed for you.
 - [Deploy Process](#) — when forward and reverse records are created.
 - [Change Package](#) — DNS refresh on package changes.
 - [Terminate Process](#) — DNS cleanup on service termination.
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