

DNS Manager — Servers

PUQcloud Panel

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1) Purpose of this section

In **Servers** you connect your **real DNS servers** to PUQcloud. Then you attach these servers to **Server Groups**, and groups power your **Zones** (create/update records, reload zones, import/export).

Path: Settings → DNS Manager → Servers

The screenshot displays the 'DNS Servers' configuration page in the PUQcloud panel. The page title is 'DNS Servers' with a subtitle 'This is where you configure the DNS Servers'. A '+ Create' button is located in the top right corner. Below the title, there is a search bar and a 'Show 10 entries' dropdown menu. The main content is a table with three columns: 'Name', 'Module', and 'Description'. The table contains three entries:

Name	Module	Description	
hCP-211	PUQ HestiaCP DNS		
pDNS-194	PUQ PowerDNS		
pDNS-204	PUQ PowerDNS		

At the bottom of the table, it says 'Showing 1 to 3 of 3 entries'. There is also a 'Report a Bug', 'Documentation', and 'About Us' footer.

2) Supported modules

PUQcloud integrates via pluggable modules:

- PUQ PowerDNS

Direct integration with the **PowerDNS HTTP API** (typically port `8081`). The panel creates/updates zones and records through the REST API and provides **Save and Test** to confirm connectivity and show the PowerDNS version.

Use when: you run your own PowerDNS authoritative servers and want fast, transparent automation (including ACME/SSL “tech zone” workflows).

- **PUQ HestiaCP DNS**

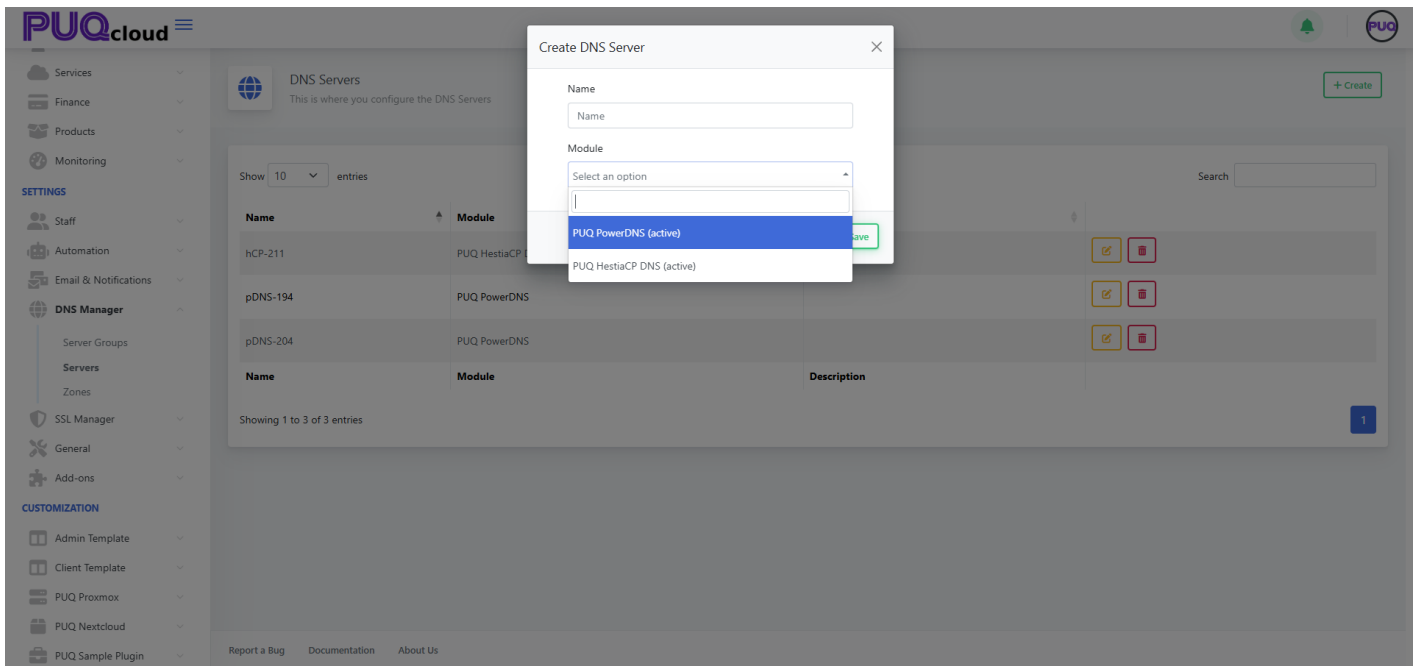
Manages zones/records via the **HestiaCP API**. Operations are performed under a HestiaCP user/API key you supply.

Use when: your DNS lives inside HestiaCP and you want to centralize control via PUQcloud.

“ You can run both modules side-by-side in different **Server Groups** (handy for migrations or prod/staging separation).

3) Create a server — step by step

1. Open **Servers** and click **+ Create**.
2. Enter a **Name** (a friendly label).
3. Choose **Module: PUQ PowerDNS or PUQ HestiaCP DNS**.
4. Click **Save** — you’ll land on the edit page with connection fields.



4) Configure PowerDNS (PUQ PowerDNS)

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Edit DNS Server
Dashboard / DNS Servers / cc8a84e2-0f87-482b-afdb-5d64bb0df783

Save and Test Import Save

Name: pDNS-194
Description:

Server: http://77.87.125.194:8081
Enter the full server address including http(s) and port, e.g. http://127.0.0.1:8081

API Key: a1f3b376-4626-4506-a14e-50053d6e57db

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Connection Test Result

Server is available
PowerDNS version: 4.4.1

Close

Success
Updated successfully

Fields

Field	What to enter	Example / Tip
Name	Any friendly name	pDNS-194
Description	Optional note	PowerDNS on dev node
Server	Full API URL incl. protocol & port	http://203.0.113.194:8081 or https://dns.example.com:8081
API Key	PowerDNS API token (api-key= in config)	Create a dedicated key forPUQcloud only

Buttons

- **Save and Test** — checks connectivity and displays the **PowerDNS version**.
- **Import** — pulls existing zones from this server (useful on first attach).
- **Save** — persists the settings.

Security tips

- **IP-restrict** the PowerDNS API to your PUQcloud host.
- Prefer **HTTPS** to the API, use a separate **API Key** with least privilege.
- Watch PowerDNS logs during imports or bulk changes.

5) Configure HestiaCP (PUQ HestiaCP DNS)

After selecting **PUQ HestiaCP DNS**, the edit form shows the HestiaCP API connection fields (API URL + authentication parameters according to your HestiaCP setup — token or user/password).

Recommendations:

- Create a **dedicated HestiaCP user/API key** for PUQcloud.
- Confirm the API is **enabled and reachable** from the PUQcloud host.
- After **Save and Test**, verify by creating a test zone under **Zones**.

6) Add the server to a group

Once the server tests OK, go to **Settings → DNS Manager → Server Groups → Edit** and add it under **DNS Servers** for the target group.

Then click **Reload All Zones** to deploy **all group zones** onto this newly attached node.

7) Typical scenarios

A. PowerDNS cluster for the ACME tech zone

1. Add **2+ PowerDNS servers** (in **Servers**), test each with **Save and Test**.
2. Create a group **PowerDNS (devns)**, set **NS Domains** (e.g., `devns1.example.com`, `devns2.example.com`), and attach both servers.
3. Delegate those NS at your registrar.
4. Create the **tech zone** `acme.example.com` in this group.
5. In **SSL Manager** → **Certificate Authorities**, select this tech zone as **DNS Zone**. Done.

B. Migrating from HestiaCP to PowerDNS

1. Connect your PowerDNS servers.
2. Import zones from HestiaCP (use the **Import** button on PowerDNS or **Zones** → **Export / Import**).
3. Create a new **Server Group** for PowerDNS and **Move To** switch zones into it.
4. After validation, change domain **delegation** at the registrar to the new NS.

8) Best practices

- **Redundancy:** attach **at least two** servers to each group (ideally different regions/ASNs).
- **Naming:** keep labels clear — `pDNS-194`, `pDNS-204`, `hCP-211`.
- Always run **Save and Test** after changing connection params.
- Keep zone **TTL 300-600s** during active changes/migrations.
- Lock down APIs by **IP allowlists** and use **HTTPS** where possible.
- Export zones as backups before **bulk operations**.

9) Troubleshooting

Symptom	Likely cause	Fix
Save and Test fails	Wrong URL/port/key or firewall blocks access	Verify <code>http(s)://host:port</code> , API key, and allow the PUQcloud IP
Zone import incomplete	API/user lacks permissions	Grant appropriate rights or use Zones → Import
Group zones don't deploy to the new server	Server not added to Server Group	Add it, then Reload All Zones
Different answers from NS nodes	One node out of sync or offline	Check health/logs, Reload All Zones , restore connectivity

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